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Number 12



Shelly Manne, above, leader of the quintet whose home base is the jazz nightspot, Shelly's Manne-Hole, will be the star attraction at the free ASCIT concert next Thursday, at Beckman Auditorium.

# Beckman to Feature Manne, Stratas

Percussionist Shelly Manne and the Shelly Manne Quintet will appear in a free jazz concert at Caltech's Beckman Auditorium on Thursday, January 18, at 8:30 p.m.

Manne and his group are well known not only here in Southern California, but also in contemporary jazz circles all over the United States. This drummer's success has assumed many forms: as jazz drummer and winner of innumerable popularity polls, as studio musician, as leader of his own group, as composer of music for television and motion picture, and as owner of one of the few successful jazz night clubs to open during the past decade, Shelly's Manne-Hole. Tickets are required for the free performance.

The fine arts are also a part of this month's Beckman program. Metropolitan Opera Star

Teresa Stratas, who received rave reviews for her performances in "Marriage of Figaro" and "Hansel and Gretel" at one of the Met's greatest seasons last month, will give a recital in Beckman on Saturday, January 27, at 8:30 p.m.

Born in Toronto, where she saw her first opera at the tender age of sixteen, Miss Stratas became a featured soprano at New York's Met within four years and was pronounced a Metropolitan Opera Star at the age of 21.

Macolm Hamilton, harpsichordist, will be the soloist at the two Pasadena Symphony concerts to be given in Beckman on Sunday, January 21, at 3 and 8 p.m. Richard Lert will conduct and the program comprises Three Miniatures for Strings by Dinerstein, Siegfried Idyll by Wagner, Symphony in A major by Mozart and the Maydn Piano Concerto, Opus 21.

# Faculty Committee Splits on Project

In an unusual move, the faculty Ad Hoc Committe on the ASCIT Research Project has produced both a majority and minority report describing their views about the research project and funds proposals. Although the reports probably will not be made public until after the publication of this issue it is generally believed that the majority of the committee is in favor of the project.

Three of the committee members were interviewed to find out

what they think about the project. Their comments follow:

Dr. D. S. Wood, chairman of the committee: "Personally, I think it's a good thing, an imaginative idea."

Dr. N. R. Davidson: "I am most impressed and pleased with the interest and initiative of the students. I'm waiting to see, and haven't seen, a willingness to do the hard work, ideas of what to do at the technical level. If there is a willingness, great; if not, it will flop."

Dr. W. H. Corcoran: "I hope it

### seeing and hearing what others think and getting new ideas. Considering time, the real problem, money, and luck, it may be more difficult actually coming to grips with the smog problem." Pessimism The research project poll that

works out real well. I think the

idea of students coming from

other schools is the best part;

students, if they are interested in the project, tend to be more pessimistic than the faculty (unfortunately, relatively few of the students seem interested). Most of them felt that the project would not solve the smog problem, and a large, but not major, portion of the interested students thought the project should be smaller and/or more technical. A majority were in favor of bringing in students from other schools. Most of the favorable comments were based on the assumption that there would be beneficial side effects from the project. Many of the students were worried about bureaucracy, but few thought the project interferred with other activities.

# Ghetto to Be Explored

by Will Manning

The Caltech YMCA in Phase III of "The Ghetto and the City" program is offering a number of Caltech students a chance to live and work in Pasadena's black ghetto from January 17 through January 19. Students will be there not only as observers but as participants. They will look for a chance to learn what it's like to be forced to subsist on welfare as they seek to assist social workers. They may be able to see the discriminatory application of the law as they work with a lawyer or friend of the court preparing an appeal to present before a judge. While working with those seeking to increase employment opportunities they might sense the bitterness of those suffering unequal job practices. Possibly they will feel the despair of barriers to opportunity while making rounds with local policemen or workers with various social agencies. With teachers they may be able to sense both the promise of the city and the blight of the ghetto. Hopefully they will become not only more sensitive to social ills but more aware, as well, of the resources to be mustered to help make our land what it was meant to be.

Students will spend three complete days in the northwest Pasadena community. Host families who provide homes for the Caltech students for the nights of January 17 and 18 will not be entertaining students who expect to be lodgers, simply sleeping and eating in the home. Rather, students will look for an opportunity with their hosts to encounter different facets of the ghetto than those they meet during the day, to see strength, not only weakness, and to reflect together on the divisive forces in our society.

(Continued on page 5)

# Student Presidential Primary To Sample Nation's Colleges

All college students will have a chance to vote in a Presidential primary this year for the first time. An organization known as Choice 68 will design the ballots and co-ordinate the whole affair. In addition to a choice of presidential candidates, Choice 68 will also give college students a chance to vote on other significant issues.

# Decision of BOD

Leaders at 200 major universities with over 2 million students had asked to participate as of Dec. 7. Choice 68 sent out announcements and invitations to 2200 other colleges at that time. Caltech was among those invited, but has not yet decided to participate. This decision is up to the ASCIT Board of Directors.

Choice 68. This Board of Directors has representatives from schools all over the country, including Yale, Berkeley, and the University of Wisconsin. Time magazine is financing the affair, but the results of the primary will be available to all.

The Board of Directors justified the primary this way: "Never in the nation's history have so many college students been so well informed about the major issues of the day . . . yet they have had little opportunity to express their views in a unified. coherent manner. Choice 68 offers students the opportunity to express their preference on Presidential candidates and selected issues — to speak for the first time as a body politic."

Somebody will listen if, as the Eleven student leaders run Board expects, over 2 million votes are registered on April 24,

# "Star Trek" Gains Caltech Support

by Jim Cooper "A really great demonstration ..."

Burbank Police Officer "The most enjoyable demonstration I've covered."

L.A. Times Reporter "We really do appreciate this." N.B.C. Executive

"A really beautiful and heartening display . . ."

### Gene Roddenbury

Caltech students illustrated vividly their ability to do the impossible as well as their ability to do the unique last Saturday night in Burbank. Under the leadership of Caltech and amidst a sea of protest signs illuminated by flashlights and road flares, over 700 students representing every major college in Southern California marched on the NBC studios to proest against the rumored cancellation of the televi-

sion program Star Trek. The uniqueness stems from the fact that this was the first organized student demonstration having to do with television programming. The impossibility overcome was the fact that this demonstration was enjoyed by all, as the above quotes indicate.

The original planners of the demonstration were Cylde Chadwick, a Caltech grad student, and Wanda Kendall, a senior at Pasadena College. They were later joined in their planning by Chris Parr, another Caltech grad student; and undergraduates Dave Lewin, Alan Stein, and Jim Cooper. These six persons constituted the Caltech "Save Star Trek" (SST) Committee.

With the efforts of these six people, as well as assistance from Louise Hood and from Rose Kemp of the Institute's public relations staff, the protest march became a reality. Pasadena radio station KRLA also played a major role in the success of the demonstration by producing special announcements on behalf of the Caltech SST Committee, and by donating the air time for them. It was undoubtedly these hourly announcements on KRLA which swelled the crowd to the large proportions it attained. Nielsen didn't ask

Upon reaching the NBC studios, petitions containing over 1000 signatures were presented by Chris Parr — attired as Mr. Spock — to Mr. James Seaborne, Director of Film Programming for NBC. Under the gaze of the enthusiastic crowd, and photographers and reporters from KRLA, the Los Angeles Times, and the UPI, Parr told Mr. Seaborne that

(Continued on page 4)

# **Notices**

### DEBATE

Enjoy talking? It can get you travel, companionship, fun, contacts, an understanding of major problems. Join the Caltech debate squad. For information see Gary Cable, 234 Ruddock.

### SENIOR WRITE-UPS

are due Jan. 14. Any write-ups reaching the Big T office at a later date probably will not be used in the yearbook.

# BASEBALL WORKOUTS BEGUN

Caltech's varsity baseball team has already started pre-season training. Coaches Bond and Preisler are inviting all undergraduates who are interested in playing on the 1968 squad to report to Mr. Ferguson in the equipment room of the gymnasium as soon as possible.

# MATH MONEY

The Math department is opening several math contests to undergraduates. Prizes of up to \$150 are being offered for original work in the field of mathematics. Details may be obtained at the math office.

# ALPINE CLUB MEETING

this Thursday at 7:30 p.m., Winnett Clubroom 1. Formal organization will take place, and practice climbs will be scheduled.

# HOUSING PROJECT!

The girls at the UCLA YWCA need help in running their Saturday morning recreation program at a federally subsidized housing project in downtown L.A. This is not tutoring, but a chance to play footwith kids mostly under 10.

(Continued on page 2)

# **Editorial**

# Research Project Deserves Faculty Approval

ASCIT's Research Project is ready to switch into high gear. After three months of preliminary planning here and at schools on the east coast, those associated with the Project have submitted proposals to various funding foundations and have received favorable responses from the Rosenberg Foundation of San Francisco.

In order to receive a grant of \$30,000 from that group, the Research Project must be approved by the Caltech faculty. An ad hoc committee of faculty members studying this problem is releasing a majority report in favor of the Project and a minority report against it. Both are expected to be available today. Then, presumably, the Faculty Board will act on these reports at its January 15 meeting and make a recommendation to the entire faculty.

Should the faculty be favorably disposed toward the Project, Caltech students will be able to meet the Board of Directors of the Rosenberg Foundation on January 24 with confidence. Should the faculty disapprove, the Project might very likely die through lack of funds.

Though we were at first wary because of the sheer magnitude of the smog problem, we are now convinced that the Research Project will make significant contributions not only in the area of smog control but also in the areas of management and higher education.

In the scientific and technological areas, the Project has an undergraduate who has a prototype electric car, a group of gradutes who are exploring steam-powered vehicles, and biologists biology students who are interested in determining what, if any, are the deleterious effects of smog on plants. Surely some of these explorations will be successful.

Political an dsocial questions raised by the solutions to technological problems will be studied with the help of students from other colleges. Meanwhile, Project workers will show that the "hard core unemployed" from Pasadena's ghetto can be trained to do meaningful work.

Thus there are many areas in which the Research Project can make significant contributions. What is more, should the Project accomplish anything, the trustees, the administration, and the faculty will be able to point with pride to a student body that has blazed a new path in the forest of higher education. It therefore behooves the faculty to put its blessing on the ASCIT Research Project and to give the student body a chance to show its mettle.

-Les Fishbone

# **EDITORIAL POLICY**

For the information of its readers, the Tech presents the following summary of its editorial policy:

The first signature following an editorial indicates the author of that editorial. The following signature, if any, indicates approval by that signer. If the editor-in-chief signs the editorial, that editorial is the opinion of the California

In general, column writers have complete freedom as to the content of their columns. No column will be eliminated from any issue of the paper solely because of the opinions represented in that column. Column writers represent their own opinions

only and not necessarily the opinions of the California Tech.

The California Tech welcomes all letters, whether or not they agree with editorial opinion. All letters must be signed, but the author's name may be withheld from publication on request. Letters are edited (or left out) solely on the bases of space and the desire to present letter opinions in proportion to the amount of mail received. As with columns, the opinions stated in letters are not necessarily those of the California Tech.

Finally, note that Kirk Benson has transferred away from Caltech and has resigned his post as co-editor-in-chief.

# More Notices

(Continued from page 1) SemA REAL ARTIST

Many of these kids crave affection and lack sufficient parental guidance. Rides to the project will leave from the front of Winnett this Saturday at 9:30 a.m.

### THE INTERCOLLEGIATE BRIDGE **TOURNAMENT**

will be held Friday, January 19, 7:30 p.m., in Winnett Lounge; everyone welcome.

### AYN RAND SOCIETY FORMING

Anyone interested in forming an organization for the purpose of making Ayn Rand's philosophy more available to Caltech students, please contact Greg Harkness, 1518 E. Del Mar Blvd., 792-0864.

The Computer Club will present Mr. John Whitney, a commerical artist working on computer-generated motion pictures, at its meeting Tuesday, Jan. 16, 8:00 p.m. in 201 Booth.

# NEWMAN CLUB PRESENTS

**SEMINARS** Starting next Wednesday, Janu-

ary 17th, the Caltech Newman Club will put on exciting seminars dealing with important topics in today's troubled world. The first subject will concern "Drugs" and how they are a problem on college campuses. Everyone is invited to attend Wednesday night at 7:30, in Winnett Clubroom 1.

### Letters

# On Xeroxing

There are now several Xerox machines around the campus, but they are all locked up by 5 p.m. daily, becoming off-limits to students; in fact, their use after five would be unauthorized entry under the Honor System. Most students do their studying at night and so need the use of a copying machine then. The only copiers available are the two in Millikan library, which give bad copies (one produces white letters on a black background) and are coinoperated, requiring a dime per copy. They are therefore quite impractical, since it is impossible to gather 30 dimes to copy some

There are few things supported by ASCIT which are used by almost all of its members. One widely used ASCIT-subsidized project was the 3M Copier installed last year in the YMCA workroom. The Copier was removed due to financial losses. Perhaps the YMCA or the Institute could help ASCIT subsidize a new machine in the workroom. As even better idea would be to place a non-coin-operated copying machine in the foyer of the library, where many students study and where a librarian would always be present to see that the machine was not misused. The evident need for a usable copying machine after five in the afternoon begs a solution.

Dick Wright Len Erickson

# Pro Project

I read with much interest the article titled, "Officers Comment on ASCIT Research" in the last issue of the Tech. The opinions expressed through the article were very similar to those held by many House members; namely, "The Project is a great thing, but not for me." This argument against involvement in the Project is admittedly formidable.

The fear of the size of the Project and the amount of effort required to make a significant contribution are two factors working against a constructive result. Yet the fact remains, the hangloose structure of the Project allows for involvement of any de-

(Continued on page 3)

The noise again stopped and

"Right after the holidays we

Barrelmaker. "What do you play

play the 'Blaming-the-other-side-

for-violating-the-truce' Game, and

then after that we settle down to

the normal 'Free-the-Vietnamese-

Barrelmaker then noticed an-

other of the boys standing over

in the corner who had been sil-

ently shaking a finger and nod-

ding disapprovingly of the whole

affair. "What's he supposed to be

"Oh he's supposed to be Pope

"Well, I guess it sounds like a

pretty good game, but please go

outside when you play it, because

er brother. "We'll go outside.

as he settled back down in his

easy-chair. "They're young now,"

he thought to himself. "But pret-

ty soon they'll be the ones in

charge of the world. I guess

they'll be able to do as good a job

with it as we have." With this

last thought on his mind, Barrel-

maker sank into a peaceful sleep.

Columnist's Note to Readers:

Preliminary findings of the last

issue's "Incincerator Poll" indi-

cate that 100% of you who are

reading this have read a part of

"Sure, Eddie," said the young-

Barrelmaker smiled to himself

I'm trying to get some rest."

Come on, gang!"

my column.

doing?"

Paul."

people' Game. It's really fun."

after the holidays, then?"

# Into the Incincerator

# "View From the North Pole"

Frosh Edward B. Barrelmaker of the Mythological Institute of Theocracy leaned back in his easy-chair and sighed contentedly. It was so great to get away from the trials and tribulations of Theoc and to be back in the piece and quiet of his home. Christmas of 1967 had come and gone, but he still had a few days of rest until he would have to . . . BLAMM! BUDDA, BUDDA, RATTATATA, VROOM, ARGHH TWEEE! BLAMM! BUDDA, BUDDA!

Thinking that either World War III had erupted, the chemical plant several miles from his home had gone up in an explosion, or that something even worse had happened — such as Mayor Yorty commending the Los Angeles Times for printing an outstanding newspaper -Barrelmaker hit the deck as proscribed in any good Civil Defense Manual. Suddenly he felt himself being pummeled by fists; and feeling sure that the Russians had landed, he was about to surrender and give his name, rank, and zip-code number when he caught sight of a small form hurrying into the next room, with a high-pitched excited voice trailing behind it saying, "Boy, Eddie, that sure was neat, wasn't it? You wanna hear it again?" Before Barrelmaker could reply, BLAMM! BUDDA, BUDDA, RATTATATA, VROOM, ARGHH! TWEEE! BLAMM! BUDDA, BUDDA!

"What in the name of General Hershey was that?" bellowed Barrelmaker over the pandemonium, for he had finally recognized the form and the voice as that belonging to his younger brother, thus making the noise unlikely to be associated with Barrelmaker's hearing recovered enough to enable him to trace the source to the next room. Rising from his prone position, he stepped into the next room and saw his younger brother and several of his friends huddled around an object on the floor. On closer inspection it appeared to Barrelmaker that to all intents and purposes the device would be more at home in the bomb-bay of a B-52 than in the den of his family's home.

"You wanna hear it again?" piped up his younger brother, but before he could reach a switch on the side of the device Barrelmaker had him under forcible restraint.

"No! I don't want to hear it again. Now tell me what it is." "Boy, for a guy going to college you sure are dumb. That was one of my best Christmas presents. It's my brand new 'Super-Destructo Bond-Silo-Spock TFX Nuclear Disintergrating Device' made by Anagram and capable of killing all life within a fifty mile circle. Isn't it great?"

"Oh, it's just a toy then." "Yeah, I guess so, said his brother somewhat more seriously. "But it's still neat!"

"What were your friends doing with it?"

"Well, during the holidays we're playing the 'Violating-thetruce-in-the-Vietnam-war-withoutgetting-blamed' Game."

"Hmm, I see," said the elder any kind of foreign invasion.

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# CaliforniaTech

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# Letters

# Responsibility of Scientists a Modern Necessity

With the first announcement last month of the successful "test tube" replication of viral DNA, the biological scientist must now stand with the nuclear scientist at a new equivalent of Trinity Site. As the scientists and technicians in New Mexico faced the awesome question of how to use their new power, so now the biologist, prodded by government and the "Cold War" to develop more powerful weapons of retaliation, must take a cold and dispassionate view of what he has created and ask himself again if he or someone else is to control which way the capability to synthesize out-of-cell virulence will be employed. There are many in our society who condemn the manner in which Hiroshima and Nagasaki were dashed into oblivion. Let them now realize the grave new powers thrust into our hands by Dr. Mehran Goulian and Dr. Arthur Kornberg of Stanford, and Caltech's own Dr. Robert Sinsheimer. More importantly, let them now devise some scheme to obstruct the possible future viral obliteration of some metropolis. Of even greater significance, the scientists must become to a degree socially-oriented so that he will not now pass on the impending moral decision to others by default.

Picture, if you will, a twisted

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future in which all three major powers — the U.S., the Soviet Union, the China - hold the formula to unlimited "industrial scale" production of tailored, species-specific, incredibly virulent phages. War is declared in some part of the world, and radio commands from far outside a nation's borders instantly cause the explosive rupture of dozens of small packages smuggled into city air ducts, water supplies, and all other means of dispersal. There is no warning, no chance even to attempt hiding. You die in agony along with everyone else in the cities, your system ripped to shreds by viruses you drank or breathed instants before. Then retaliation measures are taken by the nations involved, with the same weapons, and Moscow, Shanghai, Los Angeles, Leningrad, Peking, and San Francisco join the rolls of empty, corspe-littered cities within hours. And the factories, riches, and all other plants and animals save man lie waiting in the decimated nations, unbombed, and ready for the heel of the conqueror — that is, if any conquer-

or is still alive anywhere. The picture is grisly, but not beyond possibility if American, Soviet, and Chinese scientists, among others, do not stop and seriously consider the probable outcome if they default their responsibility to the human race. Let many read such a book as The Satan Bug of three years back (the name of the author eludes me). Although it is certainly not great literature, tell yourself as you read it, "This is now possible." I guarantee you that the effect will be sobering.

We are now close to the secrets of both kinds of nuclear fission — the atomic and the biological. The contemporary scientific community stands at another important juncure in history. It must stand at its own judgement, just as others did on that cold New Mexico July morning on the hills overlooking Ground Zero at Trinity. A decision of use is being called for and all nations' scientists must make the right decision!

Terrence O'Neil We cannot agree with you too much, Ed.



by Boule and Hentchel

A new show opens this month at the Pasadena Ice House, as usual. The Ice House gets away from its traditional folk style completely this month, as a climax to a long, slow transition. Whether this is to be permanent or not we don't know.

Denny Brooks has a good act, for a nightclub, but it didn't seem quite appropriate for the Ice House. He has an excellent voice, with a wide vocal range, but no distinct style. He's the kind of singer that does songs like "Sonny," and his stage form is painstakingly nonchalant.

Next, a group that is near to the heart of every dedicated troll, the mc2. This energetic group swept in with a flash of originality, and a collection of songs about the SST jet transport, a larcenous home-town librarian, and others, all well done and generally enjoyable. The group

has the appearance, and the powerful harmony, of the New Christy Minstrels, except that they do pop music rather than folk, and the girl is a lot cuter than either one in the Minstrels

At the end, Brooks joins the mc2 for a grand finale, not necessarily improving the quality of the group. Nobody minds much, though; they're all busy digging Linda, the feminine segment of the mc2, who is probably worth the price of admission. On the whole: a good Ice House Show, worth seeing.

# Trustees Order

The Caltech Board of Trustees Monday by Dr. Ray Owen. Dr. who was unable to attend the

In response to the Board's request, Dr. DuBridge announced the formation of such a study committee, and appointed to it Deans Bohnenblust and Eaton and professors Bonner, Knowles, Kuppermann, Leighton, and Owen. Dr. DuBridge appointed Dean Jones chairman of the committee.

Dr. DuBridge stated that he had requested that the committee submit at least a preliminary report to him by June. He was hopeful, however, that perhaps this report would be detailed enough for the Board to base a final decision on. If so, this could mean that the final decision by the Board as to whether or not Caltech should admit women undergraduates could come by early this summer.

# Woman Study

has moved to take the faculty recommendation that women be admitted to Caltech under advisement. The faculty recommendation was presented to the Board Owen represented the faculty in place of Dr. Norman Davidson meeting due to illness. After taking the matter under advisement, the Board requested that the administration join the faculty in making a study as to exactly what would be necessary in such areas as housing, admission procedures, and funding, in order to make the admission of women feasible and successful.

# Research

(Continued from page 2) gree: from reading a book on batteries to chairing an important committee.

It is generally true that complaints concerning the Project come from those not involved in it. This criticism is a welcome elment that helps keep the Project in the proper perspective. But this criticism becomes far more constructive when expressed at a Project meeting or to a member of a Project committee.

If anyone desires information concerning the project or wants to communicate some criticism, a "contextual map" is located in the Winnett Lounge foyer. This device is available to the public for anything concerning the Project.

Jim Beck

well as demonstrators were beaten by police can only attest to the lack of concern by Madison police for the civil liberties of citizens."

# Civil Liberties Union Criticizes Police Tactics on Campuses

From Releases

The indiscriminate use of police force on college campuses has been sharply criticized by the American Civil Liberties Union. The Union's statement was provoked by recent disturbances at Brooklyn College, the University of Wisconsin and other schools where peaceful anti-war demonstrations became vehicles for brutal police action.

"Outside police should not be

STUDENT

**RATES** 

summoned to a campus to deal with internal problems unless all other techniques have clearly failed and then only on the basis of rules made in advance with the participation, consultation and, preferably, concurrence of representatives of students and faculty who have been selected in a truly representative fashion," said Prof. Samuel Hendel speaking for the ACLU's Academic Freedom Committee of

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which he is Chairman. He pointed out that universities traditionally "have been self-governing institutions which have settled their internal dissensions and difficulties through the art of discussion and persuasion and, only when unavoidable, by the use of campus authority and discipline or outside police."

Within the past few weeks protests against excessive use of force by police have been registered by at least two ACLU affiliates. The New York Civil Liberties Union protested the "unnecessary police violence" at Brooklyn College when a group of students staged a peaceful sitin to oppose Navy recruitment on campus. The group set up a table next to the Navy recruitment table in order to hand out counter-information. At no time, not even at the height of the sit-in, did the sudents block access to the military recruiter. Thirty-one students were arrested on charges of criminal trespass and resisting arrest. The additional charge of disorderly conduct was dropped.

The Wisconsin Civil Liberties Union charged on Nov. 30 "police brutality" in the use of "maiming force against passive protesters" at the University of Wisconsin. The school administration called in the Madison police during a non-violent student demonstration against the Dow Chemical Company, which manufactures napalm. While noting that some demonstrators were interfering with the rights of others to reach the Dow interview room for campus employment recruitment, the ACLU affiliate asserted that the police behavior was "intolerably violent" for the circumstances.

"The apparently unprovoked, indiscriminate and free use of clubs by Madison police (most of whom had removed their police identification badges from their uniforms) against unarmed citizens inside the University Commerce Building . . . is probably the most flagrant case of police brutality in the last 25 years in this community," the Wisconsin civil liberties group said. "The fact that innocent bystanders as

# A Very Special Event THE DOUBLE HELIX

LIZ TAYLOR & MARLON BRANDO IN

JOHN HUSTON'S

REFLECTIONS IN A GOLDEN EYE

FIRST RUN ENGLISH COMEDY

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The story of the discovery of the key to the genetic code, by James D. Watson who won the Nobel Prize for his part in the achievement.

The Atlantic publishes in two parts Professor Watson's personal account of a race to discovery as exciting as the race to the South Pole and immeasurably more important to man's knowledge of himself and his world. It inspired a stream of new research in biochemistry and has caused an explosive transformation of the science.

The Double Helix begins in the January issue of The Atlantic and concludes in February. It is a great story not only for its scientific information but also for what it says about the way scientists work, a story to enthrall all who care about the phenomenon of man.

Also in this issue Unpleasant facts about:

- The March on Washington
- U.S. Treatment of Vietnamese Prisoners

# Just What Is "Scientology"?

by Eric Schiff

An unusual organization has been gaining support in the Caltech community. This movement, which is now known as Scientology, and has been known as Dianetics, has a Caltech chapter which has been giving courses and free lectures in Culbertson recently. The actual impact of the organization is difficult to gauge, but as a rough estimate, ten per cent of Blacker House has either taken one of the Scientology courses or attended a free lecture.

Despite its legal status as a religion, Scientology does not offer its members a theology. Rather, the objective of the movement is to enable its followers to obtain release from the anxieties, or "hang-ups", usually found in human relations and self-analysis.

To do this, Scientology offers a "learning technology," the mastery of which results in release from these problems. The philosophical foundation of Scientology is associated with the concept of an engram. An engram is a very powerful motivating force stemming from a person's inactive, or subconscious, mind. Engrams are the result of experiences undergone when the rational part of a person's mind is not functioning. Later stimulation of an engram results in irrational or inexplicable behavior.

# Star Trek

(Continued from page 1)

the demonstration was but a small display of the support that Star Trek has; and that to go strictly by its Nielson ratings in determining whether or not to cancel the series would be a grave error. As Parr aptly put it, "Nielsen didn't ask us." Mr. Seaborne replied that no final decision had yet ben made in regards to next season, but that, "We'll take this very much into consideration."

After the demonstration an informal gathering of the Caltech SST Committee and members of the production staff of Star Trek was held. Among the members of the production staff present were Mr. James Doohan (Scotty" on the series), Mr. David Gerrold, writer of the recent "Trouble with Tibbles" episode, and the executive producer of the series, Mr. Gene Roddenbury. Presnt at the demonstration but not at the later gathering was Mr. Walter Koenig ("Chekov" on the series). All of the staff were impressed and extremely pleased with the demonstration.

Mr. Roddenbury promised that he and other members of the staff and cast would certainly be available to meet with students at Caltech interested in the series and the technical aspects of its production. Mr. Gerrold, an up-and-coming science fiction author, also expressed a desire to visit Tech and meet with students interested in writing science fiction. To take advantage of these generous offers, Caltech's semi-dormant Science Fiction Club is being revitalized, and the invitations will be sent soon.

Elimination of all of these engrams is the ultimate objective of the Scientologist, and results in the attainment of what is known as "clear" state

The actual process of reaching "clear" state is a relatively short and rather costly period devoted to mastering the concepts of Scientology and passing audit sessions, which determine which grade a person has attained on the path to "clear". The audit sessions themselves hinge around the use of an "E-meter", a machine which measures body resistance. This machine is the key tool of Scientology. A vast amount of Scientology literature, and even a periodic bulletin, is available on the use of this machine.

It is difficult to present a fair evaluation of Scientology. This reporter is neither a Scientologist nor an expert on the subject. Here are nonetheless, several

# Political Issues Raised Within Physical Society

The American Physical Society is currently considering a proposed amendment to its constitution which will enable it to take a stand on the Vietnam issue. The proposal for the amendment was announced in the Society's latest bulletin.

An interview with Dr. Ward Whaling, regional secretary of the Society, revealed that the incentive for the amendment came from a single unnamed member. He indicated that members would not vote on the proposal at the next meeting in March, since only a token number of voters will be present. Voting will be by mail. The proposal, if passed, will amend article VII of the constitution to empower the organization to publish opinions on non-physical issues. Whaling, a Professor of Physics at Caltech, had nothing to say concerning the chances of success for the measure.

The opinion that the Society wishes to voice concerning Vienam was not revealed, and it seems reasonable to assume the Society's position at this time is not definite.

# Join the Beatles

One of the ASCIT Academic Reform Committees, that considering a junior year abroad, is close to partial success. Because of Caltech's close association with the Indian Institute of Technology at Kanpur, enquiries about the possibility of arranging a program for Caltech juniors have been promptly answered. And the answers are very favorable.

Courses in physics and math are almost exactly parallel in the two schools, although a number of junior-level courses at Caltech are listed as graduate-school-only at IIT Kanpur. One discouraging feature about Kanpur is its location; students may bathe in the sacred Ganges River if they wish,

(Continued on page 5)



pertinent impressions gleaned from a Scientology lecture and from talking at some length with several Scientologists. First, the near deification of Scientology's founder, L. Ron Hubbard, was somewhat repellent. Furthermore, the constant emphasis on cost in the promotional lectures and literature and the military structure of the Church of Scientology were unattractive. Finally, it is extremely difficult to attach validity to the E-meter or to Scientology's rather exorbitant claims.

# Drama Club Set For "Animals"

The Caltech Drama Club has announced plans for its spring production, "The Male Animal." The play, written by James Thurber and Elliot Nugent, will be presented February 23 and 24 in Culbertson Hall. Jon K. Evans, a Caltech graduate, will direct the production of Jeff Moller and Bart Gordon.

Tryouts for roles in the play will occur this evening at 7:30 p.m. in Dabney Lounge and Saturday at 4:00 p.m. in Clubroom 1 in Winnett Center.

The subject of the play is of current interest: Should the trustees of a college be allowed to dictate the material taught by the professors? The drama follows the life of Tommy Turne, a professor whose references to anarchistic liberation almost cost him his wife as well as his job.

# Caltech to Represent Niger At Model United Nations

The Caltech Model United Nations delegation, this year representing the Republic of Niger, will be organized this week; Michael Meo, in 206 Lloyd, will okay delegates and help them choose a committee. All positions except that of delegation chairman are now open.

The MUN delegations assem-

# **Ghetto Visit**

(Continued from page 1)

This is not planned as a "tour" of the ghetto by visitors from outside. Students may hope to see excitement and drama there, but they will not expect these to present themselves in a cinematic fashion. It is hoped that the participants will become sensitive to the more subtle aspects of unconscious discrimination. They will hope to be as helpful as possible to persons who agree to take them on as assistant observer-participants in their daily work and will hope to learn from their hosts in the relaxed exchange of temporary residence in a home.

The YMCA encourages Caltech students to participate. The sign-up period will end at 4:30 p.m., Friday, January 12. There is a \$5.00 sign-up fee.

ble once a year at a host school (the University of Arizona this year) about the middle of third term, and deliberate resolutions submitted by the various delegates, first in specialized committees, then in the General Assembly. The benefits of participation usually vary according to the amount of work each individual has put into his subject, but the meetings are something of a social event as well.

In former years Caltech has represented Albania, Kenya, Jordan, and Yugoslavia, but countries are awarded on the basis of performance at the annual session. Niger was neither Caltech's first, second, nor third choice for this year, so the MUN administration has indicated little confidence in Teckers' abilities.

In former years ASCIT gave Caltech's MUN delegation a stipend for travel, but this year it will not be so generous. The delegates will have to arrange their own transportation to the three-day meeting.

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# Coach's Corner

ATTENTION! Coach Harry Preisler would like to see all baseball candidates, frosh, jayvee, and lettermen report for preseason practice. These practices will include light weight-training and will be used for getting in shape for the season ahead.

Also, the coaches and teams would like to see more student support at their games. If you have the opportunity, drop in on a basketball game or wrestling match.

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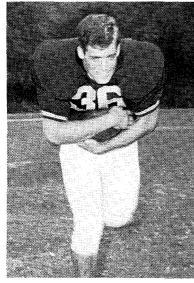
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# Frazzini Wins NCAA Postgraduate Scholarship

John Frazzini was one of thirty-three senior football players who have been awarded \$1000 postgraduate scholarships by the National Collegiate Athletic Association.

John has many athletic achievements to add to his scholastic ify a player must have a 3.0 average and have performed with distinction on the football field. He



John Frazzini

must also plan to begin graduate studies in the fall of 1968 and have been judged capable of doing postgraduate work by his major professor.

John has many athletic achi-

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evements to add to his scholastic achievement of a 3.1 g.p.a. in physics. He has started every game for four years as an offensive back or defensive end and was Caltech's punter. He led the league in punts this year.

As a leader, John was co-captain of this year's team and has twice won the Wheaton Trophy, symbolic of scholarship, ability and leadership. He has been a cowinner of the "Outstanding Caltech Athlete" award as he has also lettered in baseball and basketball.

In the conference John has ben second team All-SCIAC and this year was the only Tecker to make the All-SCIAC first

Caltech has always had a recipient of an NCAA Scholarship since the program was founded four years ago. Scholarships are also granted in basketball and other sports. Here too Caltech has had recipients. John is the latest in the line to show that Teckers can be athletes as well as students.

### (Continued from page 4)

but there is no nearby metropolitain area which can provide anything approaching the varied entertainment of the Los Angeles valley or even the more modest charms of the Pasadena which Caltech students know and ignore.

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# Pomona Beats Tech Hoopsters

Caltech's basketball team lost its fifth game of the year, 83-54, to Pomona on Jan. 5. Tech is now 1-5 for the season.

The strong Pomona team led all the way and was ahead by ten points at the half. The Sagehens made some quick baskets and took a 20-point lead early in the third quarter. It was not until late in the game that the Beavers were able to contain the Sagehens and diminish the lead. The Sagehens then came to life and poured in some late fourth quarter baskets to give them their final margin of victory.

The Beavers were plagued by poor ball-handling, yielding 34 turnovers. However, Jim Stanley, with 12 points, played a fine all-round game and was named Player of the Week. Terry Bruns, with an off-night, still led the Tech scorers with 15 points and was high rebounder with 14 rebounds.

# Discobolus

In Discobolus competition, Blacker wrested the trophy from the Flems with a victory in badminton, 3-0. The Flems played valiantly but were no match for their accomplished foes who quickly vanquished them.

Blacker will face Dabney next Sunday according to the ancient

# Pasadena College Defeats Matmen

The Beavers wrestlers lost their second match of the season to Pasadena College, 30-16, at Pasadena College last Friday. Pasadena's victory margin came from Tech's three forfeits in the middle weight classes.

Caltech dominated the lightweight division as Tech's John Batchelder pinned PC's Gene Schandorff (115 lb. wt. class) and Dan Hornbuckle outscored Crusader Jim Groves (130 lb. class). Tecker Ken Higgins also came through with a victory over Ed Connally (137 lb. class).

In the middleweights, Pasadena dominated as Rick Sandys pinned Techman Bob Crane (145 lb. class) and Crusader Rich Walchle pinned Nelson Briceno in the 167 lb. division.

Tech split the heavyweight classes as Alan Beagle pinned PC's Don Denney (177 lb., class). However in the heavyweight division Beaver Joe Devinney was pinned by Ron Kearns.

The wrestling outlook is good as Tech's matmen are returning to form after their disheartening loss just before finals.

rotation tradition. Dabney challenged in basketball, football, and ping-pong. Blacker accepted the challenge in basketball.

In the point standings, Dabney still leads with 13 points while Fleming is second with 8 points and Page is third with 7 points. Blacker is on the move with 4 points while Ruddock has 2 points. Lloyd and Ricketts have one point apiece.

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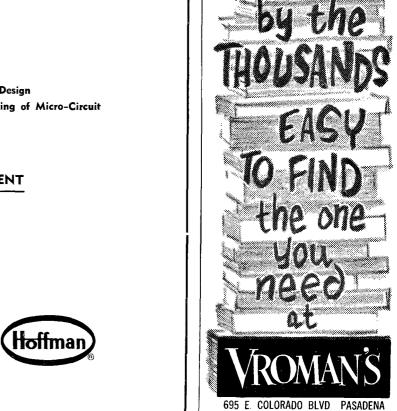
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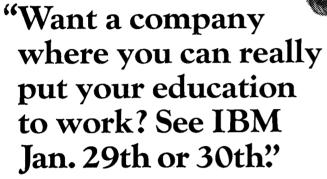


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