Submillimeter Telescope Funded

Caltech News Bureau

A $3.9 million grant for Caltech's new radio astronomy telescope—the first in the world to be designed specifically for submillimeter-wave astronomy—has been given to the Institute by the National Science Foundation (NSF).

The new 10.4-meter (34-foot) telescope will be located on 13,796-foot Mauna Kea in Hawaii, one of the world's highest, driest observatory sites—chosen because of the telescope's extreme sensitivity to water vapor in the earth's atmosphere, which weakens the signals from astronomical sources.

A relatively new field, submillimeter-wave astronomy covers one of the few unexplored regions of the electromagnetic spectrum and promises to be a major contributor to the exploration of our galaxy and other galaxies. Until now, no telescope has had either the high surface accuracy needed to focus the waves, or the high-frequency radio detectors to measure them.

According to Caltech Professor of Physics Thomas G. Phillips, the director-designate, the new telescope has both the extremely high surface accuracy and a new generation of detectors, including superconducting and bolometer detectors, that will enable high-sensitivity studies of both special lines and continuum radiation. The telescope will be able to scan wavelengths from one millimeter down to 300 micrometers—one-eighth of an inch—which is one-third the radio wavelength detectable by the University's existing telescopes.

Peter Konopka relaxes in Ricketts while Sylvia Luedeking poses as an IRA terrorist during last Saturday's Interhouse party. Photo by Roger Fong.

Interhouse

At this year's Interhouse, the undergraduate houses presented themes from different countries, different times, and even different dimensions. The following *InSide World* accounts describe what went on at last Saturday's event:

Blacker

Well, there we were, sixty-some Moles just milling our own business (as usual, I guess) when suddenly there was a great thunderclap, and the skies were rent asunder with an awesome presence. We felt our bones become starched and our ears become stretched out to sixteen inches as a dark cloud descended upon Blacker House. Our memories of what happened that night so far nothing but blackness, a blackness blinder than the black in blacker in blacker. We might all have woken up on Sunday morning with no idea of what had gone on the night before (many of us did anyway) but for a note found in a bottle in the mud pit. The note read thusly:

_We've left a note for you today and, now, I feel a need to tell the world of what we've done, despite every attempt to leave no trace. I think Battman said that the criminal mind is such that it must leave a trace, and that is what causes their downfall in the end. Perhaps so. I only know that I must tell this story._

_We had been planning this for six months. I think it was originally Fieldish Plan Man's idea, but by that time, it was mine. We saw the confusion of In­terhouse night as the perfect background for our idea, and we rented Stealing Ray to capture the audience. We exalting Big Brother, mindless and individualism, and exalting Big Brother, mindless adherence to the words of leaders, and the idealness of a merged church and state under right wing religious fanatics._

_We were subversives in the crowd, passing out banned pamphlets that talked about such strange and evil things as “free press,” “fair trial,” “personal freedom.” The Thought Police hastily escorted these scum down to the Ministry of Truth, where believers could come hear speeches and sermons decrying all forms of immorality and individuality, and exalting Big Brother, mindless adherence to the words of leaders, and the idealness of a merged church and state under right wing religious fanatics._

_We decided to reread the book, and it was our idea, and we rented House of leafy 300 miles away, and we decided to capture the audience. We exalting Big Brother, mindless adherence to the words of leaders, and the idealness of a merged church and state under right wing religious fanatics._

_Sensibly, a large group of subversive scum gathered in the secret cafe, where alcohol was readily available. Rock's Band played music with reverse time sequence encoded messages, telling the young people to worship Satan and register as a Democrat. Crazed youth entered some impromptu dances. It was a true den of iniquity._

— Bill Callahan

Fleming

It was of us to make Inter­house 1983 a severe event. The Fleming Courtyard, engineered by Mark L. Giglott and Dave Durham was well enough even though it was not completely in to the semblance of storm, so we were 10 hours behind schedule. Still, the fiber optics ship, acetylene won't work right, so we all got our point across. We made one more attempt at 11:00, but by that time, the disruptive D. Barron had collected his scum into his Zoo and we had to get out a coherent sentence, much less communicate to the world our true identities and purpose.

— Spoo

Scheer to Discuss Soviet Relations

by Hossein Mohammad

Robert Scheer, the award-winning, internationally known American journalist, will return for his second visit to Caltech this year to speak on U.S.–Soviet relations.

In his earlier appearance at Caltech last October, Mr. Scheer drew an audience of about 200 people to a Athenaum lun­cheon sponsored by the Pasadena Chapter of the United Nations and the Caltech Y.

He is returning for the Nov. 21 luncheon engagement at arrangements made by a new campus organization, the

World Affairs Forum, and on a personal invitation from Caltech President Marvin Goldenberger.

Scheer is a national cor­respondent for the L.A. Times. He is particularly regarded as one of the best interviewers in American journalism today. He is known for his ability to have people express their real feelings and thoughts. Vice President George Bush once complained to Scheer's editors about his "vicious questions."

It was Scheer who, on the eve of the 1976 Presidential Elec­tion, conducted the famous inter­view in which former Presi­dent Carter admitted to having lost in his heart.

In 1982, Robert Scheer published the book With Enough Shovels: Reagan, Bush, and Nuclear War. In this book, Scheer exposed and analyzed the mentality of the Reagan administration concern­ing the concept of fighting and winning a nuclear war. Presented in a subjective main­tenance, Scheer's assertions about the current Administration's views on nuclear war were nonetheless strongly supported through his documentation and

continued on page 3

continued on page 4

The California Tech

THE

Last Day

to Pre-Reg

VOLUME 55

PASADENA, CALIFORNIA / FRIDAY, NOVEMBER 16, 1983

NUMBER 9

Bloom Countdown: 210969
**Turn Off the Fire Hose**

For little children, the thrill of doing something that they were told not to is almost unsurpassed. It is the thrill that they want to do it, just it becomes a challenge when it is forbidden. In reverse, even if Mikey likes his peas, he might not eat them because he is told it is not good. Similarly, if a student knows that he has to take a certain class irrespective of his wishes and career goals, he might immediately dam his enthusiasm. Even if he didn’t mean it to, in his mind, it becomes the class that he has to take rather than the class he chose himself because he wanted to take it.

Whether it was in the Engineering and Applied Science option at Caltech or the six dorms used a system like this. Students almost always get into the current rotation system. Because the dorm is an active community, every student is expected to participate in dorm life and activities. This would be primarily for those who had the opportunity to visit the campus and who may have become attached to or found a liking for a particular house. An attempt would be made to assign the freshmen according to their stated preference and other than that, initial housing assignments would be random.

To dictate an education with so much negative reinforcement is wrong. It can only lead to the poor attitudes and unnecessarily depressed students who feel inadequate for not being able to fill the Institute requirements to the satisfaction of the Institute’s professors. Creativity, learning and genius should be encouraged, not demanded.

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**My Rotation Alternative**

To the Editor:

For reasons I mentioned last week, I wish to propose two possible replacements for the current rotation system.

The first is the simplest and perhaps the most personal preference. As with most other schools, in the spring incoming students would be given the option to state a preference or preferences for a particular house or houses. This would be primarily for those who had the opportunity to visit the campus and who may have become attached to or found a liking for a particular house. An attempt would be made to assign the freshmen according to their stated preference and other than that, initial housing assignments would be random.

After a specified period of time, such as several weeks or a term, students would be permitted to move from one house to another.

Last year, I spent six months at a small school that used a system like this. Students would vote into their first preference. During the first semester all students are given two opportunities to move, after three and six weeks.

They have a student body of four out of five hundred undergraduates. Almost all of them live on campus in one of the six dorms. Every one of these dorms will have activities and events often to which the entire campus is invited.

The dorms are anything but dull nameless places. Students know the people they live in a small community of students and the student body and the fact that the dorms act as social units. Some people at Caltech feel that it is important that an unsuspecting student not get "trapped" living in a house that he couldn’t stand. With the current rotation system, a student might get trapped in any house, particularly if students were permitted to move from one dorm to another.

I think two key points to their system working as it does is the small number of students and dorm body and the fact that the dorms act as social units.

---

**Turn Off the Hill Hose**

The Caltech Y Fly-by

Friday, November 18

Nose to Nose — The Caltech Wind Ensemble performs for your pleasure — on the Quad at noon, of course.

Saturday, November 19

Bike Hike — Mount Wilson here we come! Meet at Winnett at 8 a.m. (see the sunrise). Bring food, water, a blanket.

Sunday, November 20

The Day After — a transfiguring dramatization of the annihilation of Lawrence, Kansas by thermonuclear weapons. A discussion will follow the viewing of this 2½ hour nightmarish film. It will be presented at 7:30 p.m. in the Y lounge.

Monday, November 21

Robin Morgan — “Women’s Voices in the Nuclear Age”. And an impromptu ion at 6 p.m. for Cal State Long Beach, provided, of course, by the underdesk Y.

Tuesday, November 22

Forum on House System — students will be able to present any grips they have about life at Caltech. This is your chance to speak out. Get out of your rooms and participate. Ramo Auditorium, 8 p.m.

Wednesday, November 23

Noon Update — Scientific Computing with Concurrent Processors presented by Dr. George Fox, Upstate-Wilson Laboratory, Inc.

Thursday, November 24

Thanksgiving — Enjoy with friends and family. If you would like to have a beautiful home-cooked meal again in Pasadena, sign up in the Y.

For more information call 356-6161.

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**Bike Hike — Mount Wilson here we come! Meet at Winnett at 8 a.m. (see the sunrise). Bring food, water, a blanket.**

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**Free transportation leaves at 6 pm for Cal State Long Beach, provided, of course, by the underdesk Y.**

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In Baxter Lecture Hall

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To the Editor:

Too Bad Caltech does all this "defense" work eh?

— Tim A. Brandon

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**No. 5**

An examination of student life at Caltech

The gadfly

Volume 85 Number 9

The California Tech

Published weekly except during ex-

precision. The editor reserves the right to abridge letters, so please keep them short.

The California Tech is not responsible for letters and announcements are welcome. Included with all contributions should be the writer’s name and phone number and the intended date of publication. The editor.

Alternative policies should be directly applicable to all who will take it. Many classes, particularly core courses, are required supposedly for graduation. That is a reminder of how blindly technical this school is. When is the quality and nature of life-styles of communities of human beings explored in classes like Ph 2a or Ma 2b (waves and multi-variable calculus)? Rather than pathetically joking about “culture” classes, why can’t real culture classes introduced, perhaps discussing the human cost of advancing technology in the nuclear age for starters. Biologists usually have some interest in physics and will probably take Ph 1a on their own initiative, but by the time Ph 2c is over, you have a class of biologists with physics-phobia on your hands.

It is easy to institute relatively loose graduation requirements across the board in a school like Caltech. Just by applying and accepting ad-

:**Too Bad**

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To the Editor:

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— Tim A. Brandon
Telescope
from page 1

any other radio telescope. It is expected to be in operation by 1986, was designed and constructed by California Institute of Technology's Division of Physics, Mathematics and Astronomy.

The new NSF funds will be used primarily for the construction of a 60-foot dome to house the telescope. Although the Mauna Kea location provides clear, dry air for optimum operation, wind and snow in the area make the problems more acute. A covering is usually not needed for radio telescopes, such as those of Caltech's McMath-Pierce Solar Observatory in California. The dome has two novel design aspects—large, lightweight doors that slide back to expose the full dish into the sky, and an internal wall and floor structure housing the controls, data collection, and support systems for the telescope, and rooms for the astronomers, all of which will rotate so that the telescope will always point through the same opening.

The dome and the telescope dish are being built on the Caltech campus. After being fully tested, they will be shipped to Hawaii and reassembled on the Mauna Kea site.

The backup structure of the new antenna is a network of steel tubes. The reflecting surface consists of hexagonal aluminum panels, each machined to an accuracy of about a thousandth of an inch. The panels are insulated with layers of foam to help reduce dissipation of power and to protect them from ultra-high temperatures. A small optical telescope will be mounted on the main dish to aid in pointing the telescope more accurately.

Over the last two decades, astronomers studying the dark, cold regions of space have taken at radio and infrared wavelengths have found that the space between the stars is inhabited by dozens of different molecules—including carbon monoxide, formaldehyde, ammonia, methanol, and other compounds of hydrogen, nitrogen, carbon and oxygen. Research in the submillimeter range will greatly enhance this picture.

Most of the lighter of such molecules emit energy at specific wavelengths in the submillimeter wave region, as their individual atoms change from one rotational mode to another. And many of these infrared molecules, such as hydrides of magnesium, calcium, aluminum, and silicon, as well as hydrogen chloride, are extremely difficult to observe at all, except within the wavelength range of the new Mauna Kea telescope.

Scheer
from page 1

hundreds of hours of interviews with the Administration members. In With Enough Shovels, Scheer concluded that the U.S. Government under President Reagan has come to believe that an all-out nuclear war is imminent, but has moved to prepare for fighting, surviving, and winning any battle that might be fought.

Scheer's name became quite common in nuclear freeze circles following the publication of With Enough Shovels. His extensive experience with U.S. officials through personal interviews made him an expert on the philosophy of the U.S. foreign policy.

The Caltech World Affairs Forum, which is sponsoring Scheer's talk, is a newly-formed campus-wide group made up mainly of graduate and undergraduate students. Organized mainly through the efforts of Mark Cohen, Ben Fried, Kate Hutton, Ed Slencseder, Craig Steele and Allen Van Asselt, the Forum will bring more speakers to campus.

The organization hopes to provide an opportunity for large-scale free discussion and explanation of concerns and ideas of Caltech members concerning national and world political issues.

Mark Cohen, one of the organizers who is a graduate student in Chemical Engineering, is quite optimistic about the future of the forum and its ambitious expansion plans.

My Alternative
from page 2

weeks.

For those who are strongly attached to Rotation there are a number of other alternatives. One of these is to have students rotate through the houses as they do now. But instead of judging the freshmen, the upperclassmen can simply talk to them. At the end of the week the freshmen would rank their four choices and the actual assignments would be done by computer or similar means. After a specified amount of time, students would be permitted to move from one house to another.

I think either of these methods would be preferred to the current system of judging people and looking upon them as either desirable or undesirable. I particularly like the first one because of the simplicity and ease of implementation. I hope the campus will seriously consider these and other alternatives to Rotation.

—Charles W. Hershey

Houses
from page 1

feasible suggestions for changes in the current House system or rotation, these suggestions would then be relayed to either the AHC or the student Senate for consideration.

John Beahan, who is organizing the meeting on behalf of the Y, commented: "We really want a large group turn out for the Ramo meeting, so we can get a good idea of how the whole campus feels about these issues, and to renew interest in discussing the issues." Glen Crawford, who is also helping to organize the meeting, added: "Hopefully this meeting will create some kind of focus: we need to know which issues are of the greatest importance and what feasible and acceptable.

Those interested in further information about the meetings or interested in helping out are urged to contact John Beahan (355-9322) in Blacker, or Glen Crawford (578-9079) in Ruddock, or call the Y office at x6163.
Beavers Beat Air Force

by Ath Man at Large

The Caltech Beaver football team defeated Edwards Air Force Base, 45–12, last Saturday, racking up its most decisive victory of the year and improving its record to 6–1.

The Beavers jumped out to an early lead, scoring two touchdowns in the first quarter on runs of 5 and 40 yards by Jonathan Brown. Phil Scott ran one yard to another score in the second quarter to give the Beavers their halftime lead of 19–0. The Beavers' offense added three more touchdowns in the second half, the first on a run of 17 yards, by Michael Vanya and two more on Brown's third and fourth scores of the day, one a 48-yard pass from Scott and the other a 44-yard run. Brown finished the day with 238 yards, pushing his yards per game average up to 122, the best mark among runners in the National Collegiate Football Association.

The Beaver defense was also very impressive, allowing only two meaningless touchdowns in the second half. Andre Johnson intercepted four passes, repeating his performance of the week before and returning one 52 yards for a touchdown. Johnson, with 13 interceptions this season and George Kawaihi (9) rank first and second among the NCFA in that category.

The Beavers finish their season tomorrow against the Desert Warriors here at Tech at 1:30 pm. Don't miss it.

Women's Foil and Men's Saber Win

by Perry Ripost

The Caltech fencing team met U.C. San Diego and U.C. Santa Barbara last Saturday. The women's foil team improved its record by beating UCSD and UCSB. Against UCSD, Barbara Turpin and Kathy Sheedy both won three bouts each. Next came Phyllis Li, who won two bouts, Danielle Bonefedo won one. Overall the women's team won 9–7. Against UCSB, they did just as well and won 11–5. This time Barbara Turpin was the leading scorer. She won all four bouts. Then came Karla Peterson, who won three. Kathy Sheedy and Phyllis Li both won two each. With these two wins last Saturday, the women's foil team is now in third place in their league.

The men's foil team came close to beating UCSD but lost by one bout, 4–5. Scott Grossman defeated all of his three opponents. Andre Burgoyne defeated one. Kurt Anderson did not win any but performed well by making good parries and having several touches against his opponents.

Against UCSB, the foil team had a tough match and lost 1–8. Andre Burgoyne, who was the only scorer, surprised one of UCSB's best foil fencers by beating him.

Against UCSD, the saber team won for the first time this season. They had an exciting match. Both teams seemed to have the same ability, and each side was winning and losing bouts. At one point in the match, there was a tie at 4–4, and Chin-Wei was the last man to fence. Tension mounted because this last bout would decide the match. Chin-Wei took the initiative, ran at his opponent, and won. Overall the saber team made an effort and did very well. Let Sudderlin and Peter Konoval both won one bout; Chin-Wei Han won all three.

This Saturday the Caltech fencing team will meet Cal State Long Beach and UCLA again at Long Beach. The fencing team is looking forward to winning a few matches.

Hockey Victory

by Christ of Stork

The Score: 16–2, The Vanquished: U.C. Irvine, The Sport: Hockey (not football). This victory last Thursday morning may mark their high point of the season, outplaying their opponents in almost every respect. The team dominated the game to such an extent that even when it had a man in the penalty box, Caltech players were able to keep the play action centered around U.C. Irvine's goal. The win was a team effort with the goals and assists evenly distributed among the players.

The loss of several strong players after last year's championship made the team below par. Coach George Yeats was encouraged to see that the line consisting of rookies showed promise by scoring their share of goals and not allowing either of the two scored by the opposing team.
**The Inside World**

**Barker: Blah blah Blacker blah.** —Sport

**Fleming:** The quest for the perfect Golden Ratio continues with Mike Baumer accurate to 4 decimal places. Alley 4 has the highest average, and has not been seriously challenged. The first alley challenge of the year has been submitted by Alley 1 to the champions of Fecathlon, Alley 4. Competition will begin soon.

It seems as though our neighbors across the way in Page House have required the aid of 6 tons of granite in order to protect themselves from the thundering herd. Then, in a fit of rage, took out their sexual frustration on our defenseless plants. Boys will be boys.

**Page:** After interhouse, in an attempt to clean up their house, Fleming placed a bonk of rocks in front of Page’s doors. The next night, Page retaliated by scattering the front alley of their house with 73 coins, specially trained for this “social event.” After an hour and a half of skirmishes, the Page dudes withdrew so that the Flembs could get back to their rolling. Final score was 20–12, with Page a bit ahead. Flembs were showered in Fleming’s showers. We’ll see them later.

**Ricketts:** Life surged through Ricketts House this week above and beyond the call of interhouse. We did our usual miraculous job of constructing and destructing interhouse in minimum time this week. Aside from this the house managed to receive an official win in interhouse soccer through a forfeit from Dabney although two teams were put together and played a game for fun as well. A small confusion with calendars produced a premature bout of Christmas spirit hit the house with caroling in the lounge followed by a timely visit by Santa Megatest. Unfortunately, the freshman class learned the folly of greed when virtually none of them were there to receive the F1ems were showered in Fleming’s...

**Blacker:** Blah blah Blacker blah.

---

**Weekly Sports Calendar**

**Basketball Season Opening**

by Ath Man at Large

The Caltech varsity basketball team opens its season insight at 7:00 pm here at Tech against the Pacific Coast Baptist Bible College Eagles. The Beavers will be looking to break their 21-game losing streak tonight, and all indications from preseason practice are that they have a good shot at doing it.

Despite the loss of forward Jeff Lester to injury, the Beaver front line looks strong. Senior Stewart Peebles will start at center, with Jim Holgren and Chris Kyriakakis the likely candidates to flank him at forward. Dave Wernitz and freshman Bill Gustafson add valuable backup strength to the forward line.

The backcourt, while talented, suffers from a lack of depth. Tom Heer will miss the first three games for a medical school interview, leaving the starting spots to John Krebs and freshman Ed Zanelli. Head coach Mike Poizner may have to move Chris Kyriakakis to the backcourt to add depth there when Heer is not available. Zanelli and Krebs add a lot of speed and quickness to the team, and hope to turn the front line’s rebounding strength into baskets off the resulting fast breaks.

All in all, it should be a fun season, so come on out and watch!

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Interhouse 1983

From page 1

we ran out of food and german beer before 11 o'clock. (No reservations had been made, rather on its overwhelming popularity). Alpine Village will get their barrels back soon.

The highlight of the evening was the play, written by Tom Kupszewske, around the theme of Fansome's Heroes. Impressive performances were turned in by all involved, with the exception of Mike Kilby, who as usual forgot his lines.

— Ed Zanelli

Lloyd

Interhouse! After a typical-ly slow start, everything finally got moving with a lot of prodding from our Interhouse Work Chairman, Matt. Alaric did a very good job of hiding our fireplace, Ross did manage to find ten potted palms and transportation for the roulette table (which, by the way, had the truly powerful intake of $1.55 for the evening), and despite the fears of many, Paul did get the "Rick's Cafe American" sign finished. Although Marty's plane didn't take off due to bad weather, the interior effect was quite pleasant, complete with the usual pile of excellent Lloyd food prepared by the usual pile of excellent Lloyd cooks. Many thanks to all who helped cook, build, wait tables, and sing German national anthems.

— Rod Van Meter

Page

Interhouse was a huge success. The traditional ride was just the beginning of a long, confusing journey through "The Twilight Zone." Emerging from the misty black train tunnel, the travelers stumbled upwards through a strange, lit stairwell to the maze. For those lucky enough to find their way out, the party was only a nurrl

happy ending. Except for a few minor problems such as last minute procurement of a strobe and lethal Black Russians, fun was had by all. The Interhouse Chairman, Mark Waggoner, obviously did a great job getting Page organized. Thanks.

— Sean Moriarty

Ricketts

In honor of our new MOSH, Ricketts house went Irish at this year's interhouse. The lounge and dining room was transformed into O'Brien's Pub while the courtyard became the rest of a small Northern Irish village. To complete the authentic atmosphere entertainment was provided by an Irish band, The Road to Shiloh. As it is always true of the Irish, the locals come out in force for a night of parrying including the local IRA representatives whose determined to destroy all the British Buildings in the courtyard before the night was over. In addition to the usual fore of O'Brien's Pub there were also O'Thommassy's Burgers available featuring imported Tommyni's chile for those who desired a bite with their brew. Many thanks to the kind Irish present for providing us with quick lessons on how to dance to Irish music, an experience thoroughly enjoyed by all who participated (even the ones who couldn't catch their breath). Finally Ricketts House did its usual job of monopolizing the contest for the first house to dismantle interhouse by restoring the house to its usual state of disorder by 4:55 am Sunday morning.

— Ed Zanelli

Ruddock

Imagine that you're traveling through a deep, dark jungle when all of a sudden you spot a beautiful sea-side resort. As you walk along the boardwalk and over a bridge by a waterfall, you begin to hear the soothing sounds of Jazz and smell a succulent roasting pig. It's not a dream, you're at Ruddock Interhouse '83.

Things were swinging to Hawaiian beat as Rudikidi got underway with a pleasing set by the "Hawaii-5" (a.k.a. Caltech Band) in the Aloha Lounge. Next door, one could find a little more "local flavor" at the Hurricane Hole, the tone of the evening was pool, whiskey, and a rowdy good time.

— Ed Zanelli

"The Day After" WW III

Y to Present Nuclear War on Large Screen

It is the way a nuclear Armageddon can be expected to look, says Newsweek, and it will be shown Sunday night in the Y lounge in Wenstett on a 19" screen. It is "The Day After," ABC-TV's transfixing dramatization of the nuclear obliteration of Lawrence, Kansas, in World War III. After seeing the nightmarish film, you may wonder who's counting anything.

Prior to its national screening Sunday night, "The Day After" has been much debated as to whether it portrays "truth" or "sniff" lefist propaganda. Watching the 2½ hour film in the Y lounge will provide viewers with a chance to discuss the objective merits of the film, the implications of its story, and its effect upon them personally.

Assisting the discussion will be Mark Cohen, representing the Caltech World Affairs Forum, and Huston Horn, the director of The Clandestine War. Eight days later, on Nov. 28, another follow-up program will be held entitled "After." It is sched-uled on the Caltech campus. It is a panel discussion of the film entitled "It's Still the Day Before." Participants in the panel will include Caltech Physicist Richard Feynman, Caltech Political Scientist Bruce Cain, JPL Scientist Robert Nelson.

The Monday night program will take place at 7:30 in Baxter Lecture Hall. The Caltech Y is one of the event's sponsors.

Interhouse 1983

Interhouse was a huge success. The traditional ride was just the beginning of a long, confusing journey through "The Twilight Zone." Emerging from the misty black train tunnel, the travelers stumbled upwards through a strobe-lit stairwell to the maze. For those lucky enough to find their way out, the party was only a nurl

happy ending. Except for a few minor problems such as last minute procurement of a strobe and lethal Black Russians, fun was had by all. The Interhouse Chairman, Mark Waggoner, obviously did a great job getting Page organized. Thanks.

— Sean Moriarty

Ricketts

In honor of our new MOSH, Ricketts house went Irish at this year's interhouse. The lounge and dining room was transformed into O'Brien's Pub while the courtyard became the rest of a small Northern Irish village. To complete the authentic atmosphere entertainment was provided by an Irish band, The Road to Shiloh. As it is always true of the Irish, the locals come out in force for a night of parrying including the local IRA representatives whose determined to destroy all the British Buildings in the courtyard before the night was over. In addition to the usual fore of O'Brien's Pub there were also O'Thommassy's Burgers available featuring imported Tommyni's chile for those who desired a bite with their brew. Many thanks to the kind Irish present for providing us with quick lessons on how to dance to Irish music, an experience thoroughly enjoyed by all who participated (even the ones who couldn't catch their breath). Finally Ricketts House did its usual job of monopolizing the contest for the first house to dismantle interhouse by restoring the house to its usual state of disorder by 4:55 am Sunday morning.

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Space Scholarship

The National Space Club will announce 13,500 scholarship in memory of Dr. Robert H. Goddard for the academic year 1984-85. To apply for this award, you must be a U.S. citizen, in at least the junior year of an accredited university, and have the intention of pursuing undergraduate or graduate studies in science, engineering, or the social sciences during the interval of the scholarship. Selection will be based on academic transcripts, letters of recommendation, and scholastic plans that would lead to future participation in some phase of the aerospace sciences and technology.

The deadline for applications is January 9, 1984. More information is available in the Financial Aid Office.

Loscon in Pasadena

One of the biggest science fiction conventions on the west coast will be held in Pasadena over Thanksgiving weekend. Loscon 10 will go on from Friday, November 24, through Sunday, November 27, at the Pasadena Hilton Hotel, 150 S. Los Robles. The convention will feature talks and discussions by science fiction writers such as Charles N. Vidor, Ed Van Vogt, David Gerrold, Steve Barnes, former Tcher Dr. Brin, D.C. Fontana, Stephen Goldin, Kathleen Sky, and George Clayton Johnson. There will also be information about forthcoming shows, a film program which will include over 20 features and a Saturday Queerader Competition on Saturday evening. The convention also includes an art show, an auction, and a sales room full of GOOD STUFF. Membership in Loscon 10 will cost $10 and at this late date probably should be for further information, call 939-8104 weekdays.

Last Call for Speakers

On Tuesday, November 22 at 8:00 pm in Ramo Auditorium, there will be a meeting of the students, faculty, alumni and administration members of the student house system, rotation procedures, house traditions, and the general atmosphere at Caltech. The meeting is being organized by the Master of Student Houses and The Caltech Y, among others. Students who are interested in giving five to ten minute informative speeches on a topic of present concern should contact John Beahan at 356-9322 over this weekend.

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Putnam Exam

The math club will be doing its annual preparation for the Putnam Exam. Students will be Barry Simon and Gary Lorden. All undergraduates taking or interested in the Putnam are invited to attend. Time: Tuesday, November 22, at 8:00 pm. Place: Math lounge, 351 Sloan. Refreshments will be served.

Fresh Perspectives

On Wednesday, November 23, at 8:30 pm in Clubroom 1 of Winnett Center, the fifth Fresh Perspectives meeting will take place. Organized by The Caltech Y, these meetings are a series of open discussions on undergraduate life at Caltech. Coming one day after Tuesday’s grand meeting, Forum on the House System, this week’s discussion will be held in the room where Refreshments will be provided and everyone is invited to attend.

SIF Deadline Extended

The deadline date for submitting Student Investment Fund (SIF) information requests (available through any SIF officer) has been extended for one week to November 30. For further information, contact Mike Curtin in Rudder House.

Other Big Brother

Catholic Big Brothers need volunteers in the Pasadena area. The present waiting list numbers 15 fatherless boys. To be a Big Brother you do not have to be Catholic; you do have to be over 18 and willing to spend three or four hours a week for at least a year. For further information, contact Catholic Big Brothers at 250-7436.

Naval Engineers

The American Society of Naval Engineers offers a scholarship program for the purposes of encouraging students to enter the field. Naval Engineering and providing support to Naval Engineering students seeking advanced education in the field. Scholarship awards of $300 each will be made for the 1984-85 academic year. Support for undergraduate work is limited to the student’s final one or two years of undergraduate education. Support for graduate education is limited to one year. These awards are also limited to U.S. citizens who demonstrate interest in Naval Engineering and who will be enrolled in a full-time program leading to a designated undergraduate or graduate engineering degree in an accredited college or university. Scholarships will not usually be awarded to doctoral candidates nor persons already having an advanced degree. Demonstrated financial need is not a requirement but may be taken into consideration. Scholarships will normally be renewed for the duration of the degree program entered while the student is in good standing.

The deadline for receipt of applications will be February 15, 1984. Additional information and application forms may be obtained from the Financial Aid office, Room 10 Parsons-Gates.

Lit Offering

Lit 149a, Contemporary Latin American Literature, will be offered winter term on Tuesday evenings at 7:30. The course will be taught by Mary Berg.

SAMP Engineers

The Society for the Advancement of Material and Process Engineering offers scholarships to freshman and sophomores.

Chinese Engineers

The Chinese Engineers and Scientists Association of Southern California offers scholarships to students of Chinese decent who are currently enrolled as full-time students in an accredited college in Southern California. The deadline for filing is January 2, 1984. Additional information and application forms are available in the Financial Aid Office, Room 10 Parsons-Gates.

SWE Meeting

There will be a meeting of the Society of Women Engineers on Tuesday, Nov. 29, at 8 pm in Winnett Lounge. All current members and anyone who is interested in SWE are invited to attend. SWE is open to all science and engineering students.

Blood Drive Results

The goal of the October Blood Drive was exceeded. The actual results were: Wednesday – 51 pints Thursday – 64 Friday– 81 pints. This totals 196 pints, compared to last Spring’s total of 200 pints. In the Undergraduate House Contest (for which there was 1% of beer and 2% of beer riding on the house participation), Lloyd and Ruddick took with 23% student participation. The next Blood Drive will be held in the Spring – April 10, 11, and 12. Start saving up blood now.

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