Charities Drive
To Open Monday

The annual AUCT Charities Drive swings into action this Monday in search of donations for the American Cancer Society, the Multiple Sclerosis Association, and the World Universities Service.

Drive pledge cards will be passed out by UCC's in the Houses on Monday, and off-campus students will receive them by mail sometime during the week. Anybody donating to the drive will have the option of being billed through the Institute or giving his money directly to a UCC or Drive Chairman Paul Furden, Ricketts, and Kurt Anderson, Blacker.

Donors will also be able either to pick one of the three charities to receive their money or else request that it be divided equally among the three participating organizations.

The drive will continue through next Friday, but Anderson and Furden urge everyone to turn in pledge cards before then. There will be an announcement in the Houses and signs posted on campus throughout the week. (AUCT Drive signs, incidentally, should not be confused with signs for the Faculty Charities Drives, which concluded last week.)

Of the three participating charities, the World Universities Service is the only non-health organization. WUS spends most of its money abroad, giving scholarships, books, lodging, and medical care to students who could not afford such things without outside help.

The Cancer Society and the Multiple Sclerosis Association do not have a sufficient staff is not available.

BY BILL BAYER
ASCIT President

During the past few years the editors of the Big T have found themselves faced with a steadily increasing problem: how to find enough staff members to put out a yearbook. This has resulted, as everyone knows, in the books' coming out further and further behind schedule; it has also resulted in a forced re-evaluation of the desirability of having annual publication of this type at Caltech.

The question, of course, depends solely upon whether or not the student body as a whole wants to have a yearbook. For the past several weeks attempts have been made by the present editors to recruit enough staff members to publish a book on a magnitude resembling that of past issues; so far these attempts have proved completely unsuccessful.

During this and the following week those students who feel that there should be a yearbook, and who are willing to do some work on it, should contact either the editor, Peter Fischer (Ricketts); the assistant editor, Bob Schenullin (Ricketts); or any House president.

If a sufficient staff is not available, (Continued on page 6)

Tech Dedicates, Rain Baptizes Alles

BY RICHARD KARP

Caltech's new Gordon A. Alles Laboratory of Molecular Biology was officially dedicated last Thursday, November 3, at 4 p.m., indoors at 119 Kerchoff. The dedication, and the World Universities Service.

Deduction opening remarks, with the acceptance of the Laboratory by Dr. George Beadle, professor of Biology and Dean of Faculty. Beadle described the history of the biology department, mentioning Beadle's opening remarks, with the acceptance of the laboratory by Dr. George Beadle, professor of Biology and Dean of Faculty. Beadle described the history of the biology department, mentioning Beadle's opening remarks, with the acceptance of the laboratory by Dr. George Beadle, professor of Biology and Dean of Faculty. Beadle described the history of the biology department, mentioning Beadle's opening remarks, with the acceptance of the laboratory by Dr. George Beadle, professor of Biology and Dean of Faculty. Beadle described the history of the biology department, mentioning Beadle's opening remarks, with the acceptance of the laboratory by Dr. George Beadle, professor of Biology and Dean of Faculty. 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Editorial
Where Do We Start?

Many attempts have been made to pinpoint what it is that makes a great many students unhappy with life at Caltech. No clear conclusions have ever been reached. Blame has fallen on the faculty, the administration policies, the Student House system, the admissions committee, something inherent in the type of guy who desires to be a scientist, etc. Some have said that Caltech undergrads are apathetic about everything, some say they resist change, some accuse the student body and House officers of being phony glory seekers, some search vainly for a deeper underlying solution.

We would like to offer one additional suggestion to the discussion. We have no idea how unique it is to this campus, but we have noticed an astounding lack of sincere interest in the problems and feelings of anyone outside oneself in all types of situations or levels of campus activity, and a strong hesitancy to admit one’s own weaknesses.

We know there are House presidents and House members who deny, without bothering to seek any information, that other Houses of a different character could possibly make people better or create a healthier atmosphere in which to live.

We know there are ASCIT officers who attack problems by continuing what was done last year before thinking of taking responsibility for what the students need and want this year.

We know there are YMCA officers who see their job as deciding what programs they themselves would like rather than finding out what the Y members or the student body as a whole would like.

We know there are students who are unhappy because their adviser shows little or no interest in their problems.

To us, most of these situations are typified on a personal level as in effect creating a big stone wall in front of oneself. Not only do most of us refuse to be understanding with the points of view that seem to mean a lot to someone else, we also carefully guard our own beliefs and state them categorically as facts (“The guys in my House are more mature than the guys in your House.”). We would like to point out that this sort of a closed-minded attitude does not give the person you are trying to convince any insight at all into why you feel just as strongly as he does about a different set of values.

We do not believe that any of the things students seem to feel are “wrong” about Caltech are going to be corrected as long as we each sit behind our stone walls and wait for the rest of the community to understand our individual problems and offer a solution. There is too much of the attitude, say in House X, that one of the big problems is to overcome the situation in House Y, while the people in House Y are thinking the same thing about House X. On a different level, for every student that is wondering why his adviser doesn’t care about him we are discovering there is quite possibly an adviser wondering why his students aren’t interested in the faculty. For most every officer who is wondering why the members of his organization are so apathetic there are several members wondering why the officers don’t lead them where they want to go.

Not much at all is going to be changed about this school until a significant number of students get up enough confidence to make the first move.
Radio Observatory Spots Over 50 New Stars

More than 50 radio stars—half of them a great distance beyond the Milky Way Galaxy in which the solar system resides—have been cataloged by the Caltech Radio Observatory. Shielded from man-made radio noise by high mountains in remote Owens Valley 260 miles north of the Caltech campus, this unique observatory has in its first 18 months precisely located more radio stars, half the radio stars are and what is the visible counterpart.

In announcing these findings, Bolton disclosed that a new facility has been added to the observatory that will make it even more effective in mapping the positions of radio stars in the heavens. This 1,600-foot length of east-west tracks, mounted on railroad cars, the big steel "ears" can be moved various distances in diameter to the distance between the two dishes in a given direction.

The observatory's twin, 90-foot steerable dishes have been operating on a 1,600-foot length of railroad tracks. Mounted on railroad cars wheels, the big steel "ears" can be moved various distances in diameter to the distance between the two dishes in a given direction.

The one set of tracks limits the findings of the diameter in the east-west direction." Professor Bolton explained, "in order to get a complete picture of the 'radio brightness' of one of these objects, it also is necessary to make measurements in the other direction."

CAREERS IN LARGE-SCALE SYSTEM ENGINEERING...the new technology

The MITRE Corporation offers graduating engineers and scientists special opportunities to broaden their disciplines along new avenues in computer-based, real-time system engineering. The MITRE Corporation offers graduating engineers and scientists special opportunities to broaden their disciplines along new avenues in computer-based, real-time system engineering. The MITRE Corporation offers graduating engineers and scientists special opportunities to broaden their disciplines along new avenues in computer-based, real-time system engineering. The MITRE Corporation offers graduating engineers and scientists special opportunities to broaden their disciplines along new avenues in computer-based, real-time system engineering. The MITRE Corporation offers graduating engineers and scientists special opportunities to broaden their disciplines along new avenues in computer-based, real-time system engineering.

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System engineering and development at MITRE unites a wide spectrum of disciplines in the design, analysis and integration of electronic environments. These are composed of complex interacting communication networks, radar systems and high-speed digital computers. Their function is to control, process and display data essential to high-level decision-making.

MITRE is technical and system engineering consultant to aerospace Command and Control Systems being developed for the United States Air Force, and also for an experimental Air Traffic Control system commissioned by the Federal Aviation Agency. In integrating the contributions of the electronic industry, MITRE in a broad sense, places staff numbers at the center of the nation's electronic capability...affording unique opportunity for professional and personal growth.

Employment opportunities exist in:

- Electronic research and development of computers, communications and radars
- Operations Research
- Advanced System Analysis
- Feasibility Studies

CAMPUS INTERVIEWS
Thursday, November 17
SEE YOUR PLACEMENT DIRECTOR TODAY to arrange a convenient interview

Secure your copy of "Wish You Were Here?" by the author. Published in the fall of 1991, this book offers a unique perspective on the world of baseball and its impact on society. It explores the history of baseball, the complex relationships between players and managers, and the role of baseball in American culture. With a foreword by former major league manager Tom Lasorda and a preface by the author, "Wish You Were Here?" is a must-read for baseball fans of all ages. Order your copy today and discover the true meaning of "Wish You Were Here!"
La Verne Trips Tech In Muddy Grid Battle

BY PETI METCALF

John Arndt caught 13 passes last Saturday but it wasn’t enough to hold the Beavers, 24-0, in a non-league game. The visitors led at halftime 2-1, but the Tigers are heavily favored after the annual Alumni Day. The game was played in torrential rain for a large crowd, tenacious Biola defense had to be entered in. The Tigers broke away for a 31-yard run to make the score 22-6. This ties the NAIA national record for the most passes caught in a game.

Sabersky Gets $28,000 For Liquid Study

The behavior of liquids under certain conditions of heat and pressure that can occur in rocket motors, nuclear reactors and modern steam plants will be studied at Caltech under a $28,000 grant from the National Science Foundation.

At a certain combination of heat and high pressure, known as the critical point, only small changes in temperature are required to produce large changes in the behavior of a liquid.

The purpose of the NSF grant is to study what happens when heat is applied at or near the critical point.

Big Mudeo Pit Prepared For Annual Games

The Annual Freshman-Sophomore game will be held next Tuesday in the MudPit, currently being worked into the proper consistency out behind the Gym.

In the last three years, the Sophomores have won twice, and the Seniors have won once. Last year’s senior class gained their victory by entirely disrupting the proceedings and claiming the souvenirs themselves.

As per usual, the Juniors will be the arbitrary judges and the rope tug, horse and rider, and other events will provide fun for all.

Ruddock Captures Discobolus Trophy

Ruddock topped Fleming two games in one to a bowling match last Saturday, to bring the Discobolus championship trophy to Ruddock for the first time. Dave Hammer was high man with a 555 series for the victors.

Tech Hardiers Dump Pomona

Both the fresh and varsity crosscountry teams left their Pomona counterparts in the mud last Friday as they scored victories of 20-41 and 10-50, respectively.

The varsity took first, second, third, sixth, seventh and nineteenth, with only 21 seconds separating the first three men. Pat Earley ran a 17:54 on the hill, muscly Mount San Antonio “three-mile-plus” course for first place, a full 130 ahead of Pomona’s first man, Marshall John.-

The game prior to the La Verne was played in torrential rain for a large crowd. The visitors led at halftime 2-1, but the La Verne halftime broke away for a 31-yard run to make the score 22-6. The Biola scoreless. Jerry Davis scored one goal, and Joel Kwok scored as the result of a La Verne turnover. The Biola offense was unable to score. With 20 minutes remaining in the second half, Biola had possession of the ball a little lower and scored one goal, and Joel Kwok scored.

Next week Caltech plays Occidental at the Rose Bowl for the annual Alumni Day. The Tigers are heavily favored after the annual Alumni Day. The Tigers broke away for a 31-yard run to make the score 22-6.

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Electrical Engineers and Physicists B.S., M.S. or Ph.D. (Mid-Year and June Graduates)

Members of our staff will conduct

CAMPUS INTERVIEWS

November 14 and 15

Find out more about the wide range of programs, unique technical opportunities, and relocation allowances offered by Hughes. Interviews will be available in your College Placement Director, or write Hughes College Placement Office, P.O. Box 90915, Los Angeles 46, California.
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TINY MEMORY UNIT GUIDES GIANT ROCKETS INTO SPACE

On this tiny drum, only four and one-half inches in diameter, is recorded all the significant data needed to direct a rocket into space.

As the rocket blasts skyward, the electronic computer, which includes this small memory unit, begins to monitor the flight. The computer continually correlates data on flight progress with data in the memory unit and makes course corrections instantly.

The very small size and weight of this memory unit is an achievement in itself. Yet other difficult problems had to be overcome - shock, prolonged vibration and extremely high G forces. Only by using new materials and design techniques were these problems solved.

People with backgrounds in the sciences, engineering, and liberal arts all contributed to the success of this project. Ideas which create new products can come from anywhere at IBM. From research, development, programming, manufacturing, marketing. If you would like a job where your ideas can be put to work in interesting and important areas, then you should consider the many opportunities at IBM. The IBM representative will be interviewing on your campus. He will be glad to discuss career openings at IBM. Your placement officer can make an appointment or you may write, outlining background and interests, to: Director of Technical Recruitment, Dept. 897, IBM Corporation, 590 Madison Avenue, New York 22, N. Y.

You naturally have a better chance to grow with a growth company.

IBM
Student Discussions
Set With MacLeish

Callow tech students will have an opportunity to meet and talk with one of the great intellectual figures of our time later this month when Archibald MacLeish visits the campus. A chance for especially close contact and meaningful discussion is available in the form of a reading-discussion group. If enough interest is shown this group of both undergraduates and graduates will be organized to read some of MacLeish's work beforehand and then use this reading as a basis for discussion with him. These discussions would be in addition to MacLeish's schedule of open-to-the-campus meetings and discussions. Further information is available in the YMCA office.

MacLeish's visit, November 30 to December 2, is part of the Caltech Y's "Leaders of America" program. A Y committee is now in the process of setting up the schedule. Included during the three days will be poetry readings, informal discussions, short lectures, meetings with English classes and possibly a symposium involving MacLeish and several members of the Tech faculty.

MacLeish will live in the Student Houses during his visit and will be the guest of various Houses for lunch and dinner.

Astronomy

(Continued from page 3)

"As at present, one coordinate of the positions can be determined from the east-west tracks in a matter of minutes. The other coordinate requires some eight hours to determine with somewhat less accuracy. The north-south tracks will permit us to do this very much more accurately and in a much shorter time."

The Caltech observatory shared in the discovery of the unexpectedly high radiation from the planet Jupiter. Last year the observatory showed that this radiation was partially polarized, came from a belt 200,000 miles above the planet's surface and was similar to the earth's Van Allen belt but with an electron density and radio emission on a vastly greater scale.

As for the pinpointing of the most distant object — in which the Caltech radio observatory participated — it is an example of international and inter-discipline cooperation in science.

"Identification of the subject, known as 3C295, was the most distant object — in which the Caltech radio observatory participated — it is an example of international and inter-discipline cooperation in science."

"Both the University of Cambridge (in England) and the Caltech radio observatories obtained the same highly accurate position for this object. The optical counterpart was noticed first at Caltech on photographic plates from the 46-inch Schmidt telescope camera," Bolton said.

"The clue to its vast distance was provided by the University of Manchester in England, where it was shown that the angular size was extremely small and, therefore, it was likely that the distance was extremely great.

"Both the University of Cambridge (in England)" and the Caltech radio observatories obtained the same highly accurate position for this object. The optical counterpart was noticed first at Caltech on photographic plates from the 46-inch Schmidt telescope camera," Bolton continued.

"The most distant galaxy is a very peculiar one which itself is a member of a large cluster of galaxies. The peculiarity of extremely strong emission lines in the spectrum enabled the determination of a very precise red shift which can be translated into distance," the radio astronomer said. "This distance also has been confirmed by photographic measurements of several other galaxies in the cluster."

Big 'T' Needs Help

(Continued from Page 2) able at the end of this time, the
yearbook next year will consist of
the following three parts only: (1) a section devoted to
senior pictures; (2) a section consisting of House pictures,
taken by classes within the
Houses; and (3) advertisements.

If a large enough staff can be
found, the yearbook may con
sist of a somewhat shorter ver
sion of past layouts. You are un
solicited to make your opinion
heard upon this matter, especi
ally as to whether or not we
should have a yearbook at all.

Students interested in working, please
contact one of the above-men
tioned people immediately.

Folk Music and Blues at
the Troubadour II

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and

JESSIE FULLER
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STU'S EXPLAINING HOW MACHINES WILL SOME DAY "OUTTALK" PEOPLE

"Stu" Smith graduated from Southern Cal with a powerful yen for excitement. His kind of excitement — Engineering.

He got what he bargained for (and a little more) when he joined Pacific Telephone. One of Stu's early assignments was to find out how existing Long Distance networks could be used to pipeline high speed "conversations" between computers in distant cities.

The fact that he did a fine job did not go unnoticed.

Today, four years after starting his telephone career, Senior Engineer Stuart Smith heads a staff of people responsible for telephone and data transmission engineering in the huge Los Angeles area. As a pioneer in this new data transmission field Stu predicts data processing machines will some day do more Long Distance "talking" than people.

Stu contacted 12 other companies before joining Pacific Telephone. "I don't think there's any limit to where a man can go in the telephone business today. Of course, this isn't the place for a guy looking for a soft touch. A man gets all the opportunity he can handle right from the start. He's limited only by how well and how fast he can cut it."

If Stu's talking about the kind of opportunity you're looking for, just visit your Placement Office for literature and additional information.

Announcements

MECHANICS MEET

The A.S.M.E. student section will have a meeting next Thursday, November 17, at 11:00 a.m. in 206 Eng. Captain M. H. Jur-
den of the Engineering Corps of the Navy will speak on "Navy Engineering in the Navy."

ALSO ENGINEERS

The Chemical Engineering Club will hold its first dinner meeting of the year at 6:30 in the Athenaean Monday night, November 14. The guest speaker will be Dr. John Mason of the Allresearch Corporation. He will talk on the engineering curriculum and preparation for a professional career, as well as answering questions about employment.

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