Tech Bringing Modern Jazz To Pasadena

The second annual Caltech Jazz Concert will be held Saturday, October 31 (Halloween), at the Pasadena Civic Auditorium, at 7:15 p.m. Guest will be the Dave Brubeck Quartet, Andre Previn, Shelly Manne, and Art Farmer, who will perform at $1.75, $2.75 and $3.75, with a 60-cent discount to Caltech students on the two higher-priced seats.

Details will appear in next week’s Tech, according to Hugh Heister, ASCC activities manager.

Girls Booked For Frosh Tea

By Lee Molbo

Tech frosh are going to get the jump on upperclassmen when 160 come to the Alumni officers’ Frosh Tea Dance at 2 p.m. Sunday, October 4. Dabney Lounge will sing softly to the five-piece band of Lloyd Kaminski.

“The accent is on the casual,” said Bob Hecht, chairman, of the YMCA-ASCC-sponsored dance.

“We’re trying to make it easy for freshmen to meet the gals,” several Scripps hostesses will be along to help with introductions, while mixers and New Student Camp entertainment are being scheduled to add extra life to the afternoon. True class on clothes is the sporty look—sport coat or coat and tie are advised.

Several upperclassmen will join a score of freshmen to transport the girls from Scripps, Pomona, and Whittier Colleges. Attending also will be about 30 girls from Amoak, and Westridge private schools and San Marino High School.

Invited in addition to the freshmen are all Alumni officers, Student House presidents and social chairmen, and all transfer students.

Y To Take Till Tree Time

The 16th Y didn’t come out last year. Nobody seems to know why, except that the editor went into the army. Somebody—again, nobody knows for sure—who plans to have the darn thing out “by Christmas.” Good luck.

Announcements

GLEE CLUB

Last chance to join the Caltech Glee Club comes today with tryouts at 4 p.m. in Cullerton.

GUINNESS MOVIE

Alec Guinness stars in “Kind Hearts and Coronets” at 7 p.m. in Cullerton. The movie is the first in the Y’s first-term series of free movies, which may be purchased at the gate or from appropriate Y members.

FOX THEATRES

Nell Sheeley, Blacker, and house representatives are selling student tickets to Fox theatres. The tickets include a 25 per cent discount pass and fringe benefits.

Blueprints Transformed To Buildings; Program Hits Construction Stage

Work Progresses on Keck, Houses, Sloan, Alles

By John Todoroff

Tech News Editor

Caltech’s third major building program is moving from the blueprint stage into the construction phase. Three buildings (one dormitory and two student centers) (of the 18 new buildings completed and work on eight others now actively under way. Of the $20 million revised goal, all but $25 million has been pledged to date.

Three new undergraduate houses, north of the Olive walk, currently occupy the construction priority. All efforts will be made to have them ready for occupancy next September, bringing 85 per cent of the total to the under- grads on campus. Two houses are planned with 12 single rooms and 36 doubles, the third will have 13 singles and 37 doubles.

All rooms will be similar in standard to those of the existing dormitory-counterparts in the present four houses. (See floor plan on p. 2.)

Each House will have eight alleys plus an individual lounge and dining room and an apartment for the resident associate. They will share a common kitchen, game room, and laundry.

Two Houses Unsold

Two of the Houses are yet to be financed, accounting for $1.6 million of the extra $1.8 million. The third will be called Lloyd House. It is the gift of the Lloyd Foundation in memory of Ralph B. Lloyd and Lulu Holl Lloyd, Mr Lloyd is a former Caltech trustee.

A new $400,000 campus cafeteria will be completed next summer and sold to the new houses. It is at present unfinished.

New under construction and scheduled for completion next May is the 600-student Amygdala Laboratory of Mathematics and Physics on the site of the old Voltage Engineering Laboratory. The three upper floors of the building will contain offices of the mathematics faculty and graduate students as well as conference and seminar rooms, a lecture hall and a library.

10 Million Volts

The two lower floors (below ground level) will be devoted to facilities for two experimental physics programs. To expedite research on the nuclear reactions of light elements, a new 10-million-volt Van de Graaff will be installed. It is being supplied by the Office of Naval Research at a cost of $1 million. Also, new facilities for low-temperature physics research are included.

The Gordon Alles Laboratory of Molecular Biology is under way, replacing a parking lot between Church and Kirchoff and should be occupied next summer. It will house research facilities in virology, biochemistry, immunology and pharmacology, said to be the first laboratory building devoted to such work. It is a gift of Dr. Gordon Alles, a Caltech alumnus, matched by a fund from the National Science Foundation.

Across San Frequil, the Campbell Laboratory of Plant Re- (Continued from page 2)

New Frosh High in English; 18 Win Honors At Entrance

Except in English composition where they were 8 points higher, the College Board scores of this year’s freshman class are approximately the same as those of last year’s, according to Assistant Dean of Admissions Peter Miller. The English average scores are 685 for the class of ’61 and 675 for the class of ’62.

Because of the jump in scores on the English test, English 6, a class given the last three years to freshmen with high scores, will not be offered this year. A new frosh English course will be used in its place.

Eighteen members of the class were awarded Honors at Entrance on the basis of high College Board scores. They are Daniel J. Anderson, Edward A. Blinder, William L. Burke, Frank R. Curtis, Richard A. D’Ari, Peter B. Fischer, Edward Gianquittu, Barry McCoy, Kenneth F. Mann, Jack F. Matthews, Jr., Robert G. Maule, John M. May, Wendell W. Mendell, Michael D. Meriman, Ronald P. Moore, George L. Scott, Ralph T. Shuey, and John M. Borvair.

There are 13 Merit scholars in the class and five General Motors National Scholarship winners. More than twice as many Merit scholars applied to Caltech as were admitted.

'Y' Slates Three Leaders

James W. "Scotty" Weston, bureau chief in Washington, D.C., for the New York Times, is the first tentatively scheduled campus visitor in the YMCA-sponsored Leaders of America program. Weston will probably be on campus early in December. He has headed the Times Washington bureau for six years, and is a nationally known political analyst.

Slated for an April campus visit is Dr. Carl Rogers, professor of psychology and psychiatry at the University of Wisconsin. He is the author of several books on non-directive counseling techniques, which he helped pioneer while at the University of Chicago.

Norman Conant, editor of the Saturday Review of Literature, will close out the Leaders program in May. He is a member of the National Committee on Sane Nuclear Policy and spent two months in Russia this summer on a well-attended lecture tour.

Dr. Herbert Orwell, professor of Old Testament religion at Pacific School of Religion, will be on campus in January as the Y’s visiting theologian for the school year. He is currently engaged in formulating a "revolu- tionary" theology of the Old Testament. Orwell’s campus stay will be financed by the Danforth Foundation and will be similar to the Leader’s visits.

The Leaders of America visits are financed by a bequest made by the late Dr. Robert A. Millikan. Each year the YMCA brings three distinguish- ed people to campus for two or three days, and they spend most of their time in contact with students.

Previous visitors under the program include Dr. James B. Conant and Dr. Robert Oppenheimer.

Pregame Rally On Wednesday

To prepare for the Caltech-Redlands football game the year’s first pre-game rally will be held at 8 p.m. Wednesday, October 7, on the baseball diamond. It will be centered around a bonfire to be built of old boards from campus construction.
Construction Underway

(Continued from page 1)

search is under construction.

Kess, Engineering Laboratory.

Ground floor was broken Septem-
ber 2 for the $25 million W. M. Kess, Engineering Laboratories (See picture.) It will be an engineering materials lab equipped with an electron accel-
erator, research facilities for study of high temperature prop-
erties of materials, a new laboratory of sanitary engineering, and a new hydraulic and water re-
sistance laboratory. The building should be completed by next Sep-
ember.

Work will begin on the Win-
net Student center next sum-
mer when the central systems-
ation and the Big T, ASCPT meet-
room, YMCA and Theorop Club
headquarters, a space for shop
work, a game room and a lounge.

Two new aeronautics labs were

assured with pledges an-

ounced by President DuBridge at last June’s graduation. Aeron-

et-General has given $400,000 to

finance laboratories devoted to the study of fluid mechanics and jet propulsion and to be named the Theodore Von Karmen Labora-

tory.

Dr. von Karmen directed Cal-
tech’s Guggenheim Aeronautical Laboratory for more than 20 years and was the founder of the National Advisory Aeronautical Corporation. The von Karmen lab is presently on the drawing boards and slated to be built on the top of the present hydro lab, in back of Guggenheim.

A 12,000 square foot Aro-

Aeronautical Research Laboratory, financed by a gift from the Fire-

men’s and Rubber Company, is being designed for the area around the student bodies living close to the city. It will house several types of advanced re-

search equipment, including plasma jets, shock tubes, electro-

ric wind tunnels, and hyper-

velocity tunnels, all of which travel at speeds up to the equivalent of 12,400 mph. There will be class-

rooms and lecture rooms for 80 to 100 graduate students.

Can’t Win ’Em All

President’s Column

The Interhouse Committee met Monday to talk over “the content and manner of distribution of the Little 1 publication.” The final action they took—resolution calling the manner of distribution “poor taste,” but pointing out that it was no official act of a House—was entirely justified. We agree wholeheartedly.

But the minutes (good job Doug, by the way) indicate that the discussion was, on the whole, petty and personal. We real-

ize that this type of thinking is standard IRC procedure and are simply thankful that it did not show in the final resolution.

We might comment in passing that the parking space dis-

tribution is not in the best taste itself.

The California Tech

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Good Points

There were a couple of comments made in speeches at New Student Camp that we thought were worth repeating and re-

membering.

Dr. DuBridge gave his usual very interesting talk about the physical and financial structure of the Institute. But he

threw in something we hadn’t heard him mention before. He

said he would like to see the Student Houses placed more em-
phasis on becoming intellectual and educational centers than

they have in the past. He pointed out that this will be more

possible during the transition into the new houses and

suggested that the freshmen play an important part in

the change. “After all, you ought to get your money’s worth,”

he concluded.

Prof. Ray Owen, in his talk on Caltech attitudes, was dis-

cussing the causes of upperclass apathy and cynicism. “You

don’t need to appear interested in science and engineering in

order to appear interested in other things,” he said. “You

can remain enthusiastic about your fields of study and still be

a well-rounded individual.”

It was a very good camp—the best we’ve seen in three years—and many other worthwhile points were made, but these

two particularly stuck in our minds as things to be thought about.

—cm

Construction is under way as a $1.1 million grant from the Sloan Foundation transforms the old High Voltage lab into a new Math-

ematics-Physics building.

Construction work will begin on the two aeronautics additions next spring, and should be broken next summer for the long-awaited Guggenheim Library, which will bring most of Cal-

tech’s books under one roof.

The 1200-seat Ricketson audi-

toium is now slated for location

north of San Pasqual and near

the Keck Engineering Building, but no date has been set for

groundbreaking. The building

will include an interfaith chapel,

small lecture and conference rooms for dramatic and musical productions, and the headquar-

ters for the Caltech Service

League.

Construction should begin next

summer on the four grad-

ed homes, which will house 236

unmarried students. They will be

located on the north side of San Pasqual street, between Holliston and Hill Aves. All are paid for

Caltech’s first building pro-

gram began in 1923 with the erect-

ion of Dabney Hall, Gugg-

enheim, Keckhoff, the Ath-


eum, and the present Student

Houses.

Forensics Year Opens Tonight

Caltech’s forensics activities will get under way this evening with a meeting for all new and returning debaters, orators and speakers.

A clinic where this year’s de-

bate topic and other speech ac-

tivities will be discussed is sched-

uled for this Saturday at Long Beach State. Arrange-

ments for attending the clinic

should be made at tonight’s meeting.

The meeting will be held in

our publications—notably the

Big T—require the existence of a Business Manager in the near future that we all stip-
ulate that an election should be held under those circumstances, but I would like to propose that we can bypass official procedure in this case in favor of expedi-

city. My suggestion is that the

ASCPT Board of Directors ap-

point a new director to the office for the interim period out of a group of applicants and accord-

ing to the new time-saver system of interviews. Anyone who is interested in the post or feels strongly about the philosophical implications of this move can contact one of the other ASCPT officers. The first meeting of the year shall take place on Monday, October 5, at which time a decision should be made.

In addition, I would like to indicate that next week’s copy of the California Tech will carry a statement written by me with reference to (a) the present structure and operation of the ASCPT office and (b) a philosophy of student activity and par-

nticipation in general, and (c)

some thoughts for future action.

Until then, I remain

Tim Donovan

ASCPT President

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The California Tech Prepares For First Test

Strong Water Polo Squad

One of the most promising water polo teams in Caltech history, reported for practice on Monday, with three of last year’s starters returning. If Coach Emery finds a replacement for goalee Don Willingham, the team is expected to be in serious contention for the SCIAC championship.

Nine regular players are back from last year’s varsity team and several strong men may be up from the fresh-squad to provide depth and speed which have not been typical to the Blue’s past. The opposition should be able to make far fewer shots than in recent years. The team’s strength is in the goalie position, according to Coach Webster. There are no experienced men for this position, but Dave Mancini, from last year’s varsity, and Rick Green and John Smith, from last year’s reserve, will be vying for the position.

The season opens on Saturday, October 10, when the varsity plays the Caltech alumni. The first league game takes place on Friday, October 30, when Caltech travels to Claremont-Harvey Mudd. The fresh schedule opens with a game against PCC on Friday, October 28.

When first impressions matter ...

A newly designed PE Program is a result of a recommendation from the ExComm PE Poll, which has gone into effect for all undergraduates. A key change in the program is the initiation of a pass or fail grading system replacing the old letter grading system. This is as a result of recommendations from the ExComm Poll.

Another major change is in the acceptance of medical excuses. All medical excuses must be presented to the Instructor on the scheduled hour. In persons with the bearer required to take instruction but not required to participate. Only deviants from this policy is if the bearer of the medical excuse is confirmed to be.

A maximum of three days’ credit per week, one hour per day, will be permitted. All absences must be made up in the sport first registered for.

Only persons allowed to participate in instruction in more than one sport per term are those who are making up previous deficiencies.

Persons playing on interhouse teams must also fill out a schedule and adhere to it after the close of the interhouse season. Those persons out for interhouse teams may receive up to five days’ credit per week.

The man in command of the situation is, of course, perfectly groomed. And, a good-looking shirt—with masterful tailoring—is one of the essentials. We respectfully submit the flattering Arrow “F Jabber” with the authentic British Tab collar—as a fitting background for the well-dressed man. Luxurious “Sanforized” fabrics—oxford and broadcloth. $5.00.

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Gridders Open Season Against UCR Saturday

The Caltech varsity football squadron officially inaugurates the 1977 season this afternoon when the Beavers host the University of California at Riverside on the home field at 2:15. Although only 25 men are expected to suit up for the game, the Beavers are expected to win.

Darbs Picked In Interhouse Softball Race

Interhouse competition starts anew with softball first on the agenda. Practice starts today next week with the five-game schedule slated to begin two weeks after the start of practice sessions.

Dahney, winner of the Interhouse Trophy last year and defending softball champ, again looks like a good bet to top the list. However, results will definitely be influenced by this year's fresh class, reputedly the best in years. Darbs is the team selected under the Caltech banner.

Other first-term interhouse sports activities include swimming and cross-country.

DeBridge Lists 21 Promotions

Promotion of 21 Caltech faculty members by the Board of Trustees was announced last week by President L. A. DeBridge.

The promotions, effective July 1, are as follows:

- From associate professor to professor: Carolyn Callo, aeronautics and applied mechanics; Samuel Epstein, geochemistry; and Tummuru S. Sridhar, aeronautics and astronautics.
- From associate professor to professor: Chao-Hsiung Chen, aeronautics and astronautics; and Robert Walker, physics.
- From professor to the newly created endowed professorships: Donald E. Bodine, chemistry; Gordon C. Gund, aeronautics; and Charles Papas, electrical engineering.
- From assistant professor to associate professor: Clarence Allen and Gerald Wassburg, geology and geophysics.
- From assistant professor to professor: Donald Cole, aeronautics and astronautics; Richard Dean and F. Brock Fuller, mathematics; and Dino Morrelli, mechanical engineering.
- From instructor to assistant professor: Toshi Kubota, aeronautics and astronautics.
- From research fellow to assistant professor: Jason C. Shi, aeronautics and astronautics.

Feynman Wins Tolman Award

Dr. Richard P. Feynman, Nobel laureate and former theoretical physicist, has been awarded the annual Tolman professorship of the late Dr. Tolman, an internationally known theoretical physicist and chemist who was for years dean of graduate studies at Caltech.

IRS Honored At 20-Year Anniversary

The Institute's Industrial Relations section celebrated its 20th anniversary last Tuesday at a banquet in the city. The section, which is one of the oldest organizations of its kind in the nation, is focused on the basic objective of increasing and spreading “knowledge and understanding of the philosophies, principles, policies, and procedures affecting the functions of management.

Speakers at the banquet were Lawrence A. Appley, president of the American Management Association; Norman Chandler, president of the Time-Mirror Company; Donald W. Douglas, president of the Douglas Aircraft Company; and William H. Roper, president of the Security-Fire National Bank, and Hon. Dyer, director of the Bureau of Internal Revenue.

With needed help from many new players, the soccer teams hopes to be a real championship contender this year. Shown is a typical ballet in an important game.

Large Turnout Expected At Caltech Soccer Fortunes

Spearheaded by five returning lettermen and an unusually large freshman turnout, Caltech's soccer team takes on Santa Ana JC Saturday in the exhibition opener.

The Beaver booters, third in the conference last year with an overall 3-4-2 mark, are again coached by Les Andrews, former star of the UCLA varsity, starting his third season as coach.

Ellis Cumberbatch and Irian Jones, both good grade students from England, return as starters at the forward posts. Other returnees include Dick Chang, forward, and Frank Williams and Julian Noble, defense men. The latter three are sophomores.

Positive Bias

(Continued from page 4)

works well in the house, even with short wire antennas on the floor or simple spools behind desks. So if you're thinking of getting a radio tuner, make it FM.

Many stations program music which can be best enjoyed at their equipment at Caltech is Heathkit. The Heath dealer for Los Angeles at 6923 Orange Boulevard has been established on this basis; the dealer is oriented toward the public school market.

For records, Santa Ana doesn't have much to be desired. Caltech Street is lined with record stores. I suspect that the Record Center across from Dow Radio, is the best choice, and with good reason: they sell all records at discount prices.

An example is $3.98 records selling for $5.70. Be warned that this store has no facilities for record listening; you have to know what you want before buying. This slight inconvenience is greatly outweighed by the fact that the records are guaranteed factory fresh. You have no fingerprints or scratches to show for.

In Los Angeles, the two most popular record stores are Muzak phenomena, located at 2440 Sunset and Vine, and Tectron Records, on Fairfax. These stores have huge selections and are sure to have anything you could ask for. Tectron usually sells at reduced prices, too.

As I mentioned last year, the most realistic trend in stereo equipment at Caltech is Heathkit.

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