Sam Hinton Joins Peggy For Concert

Peggy Seeger and Sam Hinton will be presented in concert by the YMCA on October 19, Thursday, at 8 p.m. in the YMCA on 10th.
Don’t Wait For The Props

As a student at California Institute of Technology, I have always been fascinated by the vibrant and dynamic nature of student life. The faculty and staff are not just educators but also active participants in the campus community, with many of them actively involved in various extracurricular activities. However, I often encounter barriers when trying to approach these faculty members, fearing that they might be too busy to engage with me. This can be particularly discouraging for students who are eager to discuss their research or other academic pursuits.

I have noticed that the California Institute of Technology (Caltech) offers a variety of opportunities for students to engage with faculty and staff. For instance, there are regular informal gatherings and seminars where faculty members discuss their research and answer questions from students. These events are a great way for students to learn more about the faculty and their work, and to build relationships with them.

Additionally, there are regular office hours and drop-in sessions where faculty members are available to answer questions and provide guidance. These opportunities can be especially helpful for students who are new to the campus or who are struggling with a particular topic.

In conclusion, while it can be challenging to approach faculty members and seek out their advice, there are many resources available at Caltech to help students connect with them. I encourage all students to take advantage of these opportunities and to seize the chance to talk to the faculty and learn from them.
Thursday, October 12, 1961

California Tech

Page Three

frets and frays

Baez Blasted, Scruggs Plugged

By John D. Crossman

After a summer of relatively little folk activity (in Detroit) it is good to be back at Tech where the interest in folk music seems higher than ever. It seems that every other dorm room has a guitar and upperclassmen are turning in increasing numbers to more serious instruments such as the five-string banjo. At this point, I would like to repeat my former warning to those who are considering taking up a folk instrument. Cheap instruments are often better than a new instrument of comparable investment. No matter where you buy an instrument, record (Vanguard VRS-9094) is a traditional Irish tune. This election once again brought Techmen in campus politics. The winning candidates: Dave Barker, Matt Couch, Jim Geddis, Les Ingber, Jim Johnson ’62, Bob Kic, stu Linn, Gary Louden, Pat Mannion, Wes Mandell, Dave Pritchard, Larry Rabinowitz, Pete Rice, Larry Rosser, Hal Thomas, and Frances Wilson. Each delegate will help finance the trip to South Africa, so that the student body will pay for only about 60% of the total cost. This will be the far largest delegation ever taken by Caltech to a MUN, and they will be as large as any other at the assembly.

Delegates To MUN Chosen; Tech To Represent South Africa

The Model United Nations Continuation Committee has, after considerable financialangling, been able to find room on this year's MUN delegation for every upperclassman that applied. The following delegates: Dave Barker, Matt Couch, Jim Geddis, Les Ingber, Jim Johnson ’62, Bob Kic, stu Linn, Gary Louden, Pat Mannion, Wes Mandell, Dave Pritchard, Larry Rabinowitz, Pete Rice, Larry Rosser, Hal Thomas, and Frances Wilson.

THE TRUE AND HARROWING FACTS ABOUT RUSHING

It is well enough to sit in one’s Morris chair and theorize about sorority rushing, but if one really wishes to know the facts, one must learn Mrs. McKeever’s life and how she came to be named Gerund. (Author of "I Was a Teenage Werewolf," "The Many Loves of Dobie Gillis," etc.)

The song I chose for this week is a traditional Irish tune. It can be heard on Vanguard VRS-9083, Newport Folk Festival 1960, Volume 1.

Karp Wins Y Post

After a hard and bitterly fought battle for the title of YMCA Publicity Chairman, Dick Karp emerged victorious by the margin of a mere eight votes. This election once again illustrates that the organization of Techmen in campus politics. The final tally of votes: Karp 8, Opponent 6.

THE CAMPUS BARBER SHOP

New Location: South End of T-4

ALL HAIRCUTS

$1.50

Two Barbers to Serve You

The Philip Morris Company makes, in addition to Marlboro, the new unlititified, king-size Philip Morris Commander—choice tobacco, gently curedm, cleaned by a new process to assure you the finest in smoking pleasure.
our man in the
Ivy Leagues

BY LARRY MCCOMBS

As I was taking my last walk across the Olive Walk, before heading east, Bruce Abell cornered me and with a desperate look in his eye asked me if I wouldn’t write a column for the California Tech this year. Well, what else could I say? How could I refuse a man with tears in his eyes? I said yes and Bruce went to find the name of this column — I re-wrapped my brain for weeks trying to think of a clever play on words, but nothing came. So I called it “OUR MAN IN THE IVY LEAGUES.” If there’s another title up there, it means that somebody else did come up with a brilliant idea. If there’s another name than Larry McCombs on the byline, it means somebody is plagiarizing.

The compound is named avenacin, after the Latin name, Avena sativa, for oats. Avenacin was tested by a pharmaceutical firm against 27 different fungi. In the test tube highly diluted doses effectively controlled 16 of them, including the Dutch elm disease fungus that is destroying thousands of elm trees in the Midwest. Caltech has supplied avenacin to the University of Wisconsin’s plant pathology department for a field test against Dutch elm disease. Dilute concentrations of the antibiotic are used for watering the diseased trees. Avenacin is taken up by the roots and is carried to the leaves. The fungus attacks the leaves, causing them to fall. Harmless if eaten, avenacin is lethal if injected into animals. It breaks open red blood cells, releasing the hemoglobin. Tested in the laboratory against 20 different bacteria, it was ineffective against all but one—the tuberculous bacillus. However, because of its high toxicity, avenacin is not usable as a treatment in its present form.

Work on the interesting substance began here 11 years ago after Dr. Elisabeth Turner, a mycologist from Oxford, came to work with Dr. H. K. Mitchell, professor of biology. She had discovered that oat seedlings contain a powerful antibiotic against Ophiobolus graninica. This fungus frequents soils in fields in which oats may be planted and causes the “take all” disease in grain crops.

Working with Dr. Mitchell, Dr. Jacob V. Mated isolated the substance and identified a chemical component in it that gives a blue fluorescence, which makes it possible to identify avenacin readily. Dr. Hans Joachim Burkhardt, research fellow in biology, improved the isolation method and has nearly completed the determination of the chemical structure.

The Caltech biologists have learned that the molecule is a large one, consisting of about 85 atoms of hydrogen, 55 of carbon, 30 of oxygen and one of nitrogen. The molecule is built from five linked components. Four components already have been identified. Dr. Burkhardt, who has a good idea of the patterns of the fifth group, is attempting to verify its structure.

In days of yore, men feared not only their mortal enemies, but the elements too. It was the medieval armorier’s task to protect his chiel against bores, but weather protection was a more difficult matter. Thus many a knight was spent in rusty armor.

Engineers and scientists at Ford Motor Company, engaged in both pure and applied research, are coping even today with the problem of body protection (car bodies, that is). Through greater understanding of the chemistry of surfaces, they have developed new paint primers and undercoatings, new rustproofing methods, and special stainers that guard entire car bodies against nature’s corrosive forces—all of which add armor-like protection to Ford built cars.

From other scientific inquiries will undoubtedly come new materials with protective properties vastly superior to those of today. This is another example of Ford’s leadership through scientific research and engineering.
Yale Report
(Continued from page 4)
the fine art of being a pedestrian amidst hostile motorists. In California, of course, cars will stop for any person in the street, though pedestrians scrupulously signal and avoid jaywalking. Here pedestrians completely ignore the signals and crosswalks, even when a cop is standing amongst them watching. And the motorist do have a certain sporting attitude — they consider it bad form to increase speed when a motorist enters the street. However, they would never think of slowing down or swerving. A guy could get killed before he got rid of his California habits. Of course, it could be worse — and it is in Cambridge. I was there last weekend and found that in that city the motorists as well as the pedestrians ignore the lights. Boston has one great advantage over LA, though — its MTA. Despite the story of poor Charlie, I found that I could get just anywhere in or near Boston for 20¢ with not more than a few minutes of walking. I would definitely agree with those people who keep insisting that LA needs an efficient rapid transit system.

One thing I enjoy about New England is the vast abundance of history in the raw. Everywhere one turns — signs telling about the historic events that occurred on that very spot. One could learn most of American history without cracking a book. And just to prove that I'm a true Techman at heart, while in Cambridge last Sunday I sat on the spot where George Washington took command of the American Army in 1775 — and I studied quantum mechanics!

You think the California Chamber of Commerce doesn't do a good job? Today a student from Korea moved into the room above mine. When he learned that I was from California, he asked, “It is sub-tropical climate, is it not?”

Modern physics in a nutshell: “What we can't measure doesn’t exist!”

I was expecting great Ivy League conformity of dress here, but such sophisticated slovenliness seems to be limited to the undergraduates. They all wear dark suits, narrow striped ties artfully blown back over the shoulder, light blue shirts with button-down collars, and most ride bicycles. The grad students, on the other hand, wear anything from the most formal to the least. My beard and Californian grubby clothes attract little or no attention.

During the last rainstorm I acquired the Yale habit of carrying an umbrella. I still feel a bit awkward about it — in Cali- fornia nobody but little old ladies carry umbrellas! But it’s much better than a raincoat which collects all the rain from the rest of your body and deposits it seeply on your trousers just below the hem of the raincoat.

Incidentally, the fringes of Hurricane Carla which reached here were considered quite a storm by the local residents. In Pasadena it wouldn’t even be considered a mild shower and breeze!

I originally headed east with bearded Bill Kern and some- body-bearded Mike Talbot in Bill’s Model A roadster. I and Mike’s dog, Penny, occupied the rumble seat together with a huge pile of baggage. Tied on behind were sleeping bags and a large red gas can. The pith helmets worn by all the party (except Penny — they didn’t have hair) completed the quaint picture.

Because of a highly souped up Model A engine, the buggy would cruise at 65 mph with ease, and we had great fun zipping down the highway, passing people with their eyes agog. Unfortunately, a fuel line broke just before we reached Needles, and though we fixed it quickly and went on again, the gas line spilled about the engine compartment did as gasoline is wont to do in the presence of hot objects and burst into flame.

I was driving at the time, sharing the front seat with Mike and Penny. When the floor boards suddenly became a sheet of flame, Mike demonstrated his rapid reflexes by calmly climbing onto the back of the seat behind me, holding Penny above his head and shouting various advice and criticisms. But I was really calm, cool, and admirably collected. I stopped the car, killed the master ignition switch, set the handbrake, turned off the fuel valve under the dashboard tank, and got out to attempt to deal with the fire under the hood.

(Continued on page 8)
## Weak Defense Plagues Beavers In Opener

**By PETER FORD**

Caltech's Beavers struck for a touchdown early in the first quarter and then went on to suffer a humilitating defeat at the hands of Azusa Saturday 43-14. The visitors’ victory at Tournament Park can be attributed to the fumble and ball handling of their quarterback Tom Nelson who took effective advantage of the Beaver’s shaky defense.

The game was a penalty-ridden mass of mistakes and sloppy football played by both sides. The fact that Azusa already had two games under their belts was probably the determining factor for their defense had already been tested for weak spots. Weak spots showed like sore thumbs in the Beavers defense. The tackles were sloppy when they were made (most were missed); there seemed to be no stopping Nelson’s short passes to right end Dick Mann; and too many long passes were completed to keep the visitors score down to accessible limits.

**Scoring**

The scoring went as follows. After receiving the kickoff from Tech, Azusa fumbled into the arms of Beaver guard Evan Hughes. A run by Gary Younce and a pass caught by end Frank Ridolfi put the Beavers in a position to score and Younce carried the ball over into the end zone from the seven yard line to give Tech a six point lead. The Beavers bogged down deep in their own territory and the visitors recovered a blocked punt on the Caltech 22 yard line. Stopped on the ground, the visitors took to the air for a thirty yard pass play which set up their fourth down tally to make the score 28-6. In the fourth quarter, a Caltech drive bogged down in Azusa territory and the visitors took over on downs to drive 30 yards for their fifth TD (36-14). Caltech’s second score came as Vince Hassall scammed 30 yards into the end zone to culminate a 65 yard drive. The conversion made the score 36-14. The final TD of the game came when Arizau’s Jerry Lyde carried the ball through the entire Tech team for a 65 yard touch-down run.

Despite the unevenness of the score, some bright spots showed for Tech. The interior of the defensive line played well, and the rushing of fullback Ed Cline and halfbacks Younce and Hassall showed the potential of developing into a fine running attack. Unfortunately, a much stronger aerial attack than was shown Saturday will have to be developed in order to keep opposing defenses honest.

**Next Game**

The Beavers meet a rugged Pomona squad Saturday afternoon at Pomona for Tech’s second game this season. A much improved performance over that of the Azusa game is expected as the team iron out some of its defensive difficulties.

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**Emerymen Victorious Over PCC and Alumni**

The Caltech Water Polo team continued its winning ways last weekend defeating Pasadena City College 15-10 on Friday and the Alumni in their annual clash 14-12 on Saturday. Bruce Chesbro contributed a total of 10 points in the two games and seems well on his way to being a repeat selection for All-Conference Forward. The team as a whole looked much better and played more alert brand of ball.

The PCC game could better be described as a rout than a victory, despite the score.

At the end of six minutes the Beavers led 7-0. At this juncture the entire first string was pulled out and the second and third teams sent in to give battle. Not until the end of the third quarter, with the score 9-0, did coach Webb Emery put the starters back in. Scoring for the Beavers were Chesbro (6), Mitchell (4), Manning (3), and McCommon (2).

**Alumni Game**

In the Alumni game the stamina of the varsity proved to be too much for the veterans who had a great deal of trouble keeping up. The Alumni were also hampered by the lack of an experienced goalie. Had Don Webburg (all-conference goalie, 1958) been there it might have been a different story. The varsity had troubles of their own when four starters fouled out in the third period, but the substitutes proved adequate to the job of winning the game.

The varsity built up most of its lead in the third quarter and went into the final period leading 14-7 and despite a rash of scoring by the Alumni in the final two minutes were able to hold onto the victory. Chesbro was high scorer for the varsity with ten points, while Garman (class of 1954) contributed seven points for the Alumni.

The Frosh squad took its traditional first game defeat from Santa Ana 33-0 in the second game on Friday. Considering the fact that this was their first game individually they did not do badly and we expect to see them winning before the season is out.
Basketball Season Starts

Varying basketball coach Ed Priester announced this week that this year’s cagers will begin practice next Monday. With several returning lettermen, including Captain Jean Gerber and last year’s two best scorers, Tom Hopp and Roger Noll, the Beavers look to a fine season—perhaps even a championship. Other returning lettermen include Dave Barker, Gerry Clough, and Mike Perlman. The season opens the first weekend in December. For the first time in several years, the team will play during Christmas vacation in order to stay in shape for the conference games in January.

Coach Priester invited anyone interested in playing, including freshmen who intend to go out for Frosh’s, to attend a preliminary meeting Monday at 4 p.m. in the chalk talk room in the gymnasium.

IH Softball

By JULIAN PRINCE

A few records as of Monday, emerged as the team to beat for the InterHouse softball championship as the first half of the schedule was completed. They have displayed the best hitting of any team and very solid fielding. Not the least of the Flems’ assets is the experienced pitching of Alan Tanne. This team, which can perhaps be characterized as a team which does not beat itself, possesses the only undefeated record in the league after beating Page, Nabney, and Blacker in succession.

The main challenge for the softball crown should come from the two teams tied for second place, Ricketts and Blacker. The Rowdies possess an excellent pitcher in John Kessler and a well-balanced team cooperation, but later be—

TO ALL STUDENTS OF CALTECH

CAN YOU USE A HUNDRED BUCKS?

That’s what you can win in every one of Viceroy’s Big College Football Contests

It’s easy! Just pick the ten winning teams, predict the scores—and you’re in the money!

Look! Here are all the prizes you can win!

Contest No. 1

1st Prize $100
2nd Prize $50
3rd Prize $25

Other prizes of $10 each.

Viceroy at the Box Number on the entry blank or drop the coupon in this ad or on an envelope that’s pure and safe.

CONTEST NO. 1

In the second half, Caltech varsity soccer team tied Biola College 2-2. In the first minutes of the game, Biola scored a goal, soon followed by a kick into the goal by Joel Kwok which unfortunately did not count due to an off-side call on a Beaver soccerman. Kwok, the left wing man, shortly thereafter tied the score with a goal which did count.

In the second half, Caltech kept good control of the play with skillful passes and good team cooperation, but later became taxed with fatigue. Kwok, troubled earlier by cramps, scored again in this half to tie the score after Biola's second goal.

The team, although demonstrating enthusiasm and cooperation in their game, was nonetheless disappointed at not winning. Among those seeing action, were Don Petterby, goalie, Mike Forney, George Seielstad, and Wes Shanks at the fullback positions, Tom La- tham at right halfback, and George Aggepoulos at center. Herb Chen and Jerry Davis took the inside positions, and Dave Clark

(Continued on page 8)

By BILL HOWARD

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More Ivy

(Continued from page 2) 

Unfortunately, Bill was equal-
ly calm. When he had clambered
out of the rumble seat, he also
carefully turned off the fuel
valve — or thought he did. And
so we watched while the engine
quickly burned up, saving $1.39
in our preparations by not
buying a fire extinguisher.

Since I was due at Yale in a
day or two, I hopped a bus and
made the long trip in burning but
efficient fashion. Meanwhile
Mike and Bill saw the country
in style (they managed to repair
the car in one day) and arrived
here some two weeks after I
did. Needless to say, car and
theater, but can't afford the
programs
ROSS the country, and the
beards
can see a fairly good production
of some worthwhile play most
day before Mike and Bill went
in style (they managed to repair
$1.39 in our preparations by not
buying a fire extinguisher.

A word of advice to those new
to Pasadena. If you like live
theater, but can't afford the
Playhouse mainstage or the
programs
of the Caltech YMCA held a retreat at Laguna
Beach last weekend.

Some new programs which
may be put on are day confer-
ences on technical assistance,
disarmament, race relations
and men-women relations (coed, of
course). The Y may also set up
a tutoring service for Negro stu-
dents in the area to help pre-
pare them for college. This
would also give Techmen a
chance to learn some teaching
techniques.

More girls will be invited
to Y programs and occasional open
houses afterwards. Conferences
are being planned with trips
to San Diego State. Sex in-
tuitions and discussions may be
brought back as well as the
cool Folk Festival.

Civic Concert Set

Beethoven's 7th Symphony,
Richard Strauss songs sung by
Marvin Neiko, and Ravel's
Piano Concert will be at 8:20
Pasadena Symphony season this
concert will be at 8:20 p.m.
in the Pasadena Civic Auditorium,
which is near Green and Maren-
go. As usual the admission will
be absolutely free, but seats are
reserved. The Y will order a block of tickets as soon as it
knows for sure how many tick-
et tickets will be used. Contact the Y
for further information.

UNITARIAN PUBLIC FORUM

DR. ASHLEY MONTGOMERY
Distinguished Writer, Educator, Anthropologist; Speaks on
"FREEDOM AND THE INDIVIDUAL"

First Unitarian Church, 2936 West 8th Street, Los Angeles
Friday, December 1
10 A.M.
Question Period

IF YOU WANT TO KNOW... JPL WANTS TO KNOW YOU

Representatives of Jet Propulsion Laboratory want to meet with you
personally. They want to talk to you about you. About your interests, am-
bitions, and how you feel about science
and engineering in general. They
want to talk to you about JPL. About
2800 people in Pasadena, California
that are mapping out many new missions
into space. About JPL's Lunar and Planetary
Programs and its three-nation Deep Space
Instrument Facility. About the opportunities
that exist at JPL for young men who only take
for an answer. JPL wants to know you. We
hope you'll find time to meet with us. The Placement Office
has full details.

"An equal opportunity employer"

Brown Talks About Trip

(Continued from page 1) becoming more sophisticated,
there will probably be an
em-
phases on better-trained scien-
tists.

The Russians seem to be able
to work out the difficulties in-
volved in matching the number
of graduates in a particular sub-
ject with the number of jobs
to be filled each year. Since the
numbers are kept up to date,
student advisors see it that
different majors are chosen, often
by the solicitation of the stu-
dent. Job placement is different
from our own in only one sig-
nificant aspect — there’s no
changing fields after graduation.

Since the top students get their
choice of all the available jobs,
the poor low man may find him-
self stuck on some five-year ex-
ploratory project in the frozen
east. Not a bad incentive for
marking.

The U of S

On the other hand, there are
some good jobs in Siberia. The
Russians are now building a new
city on the site of Novosibirsk.

There will be 14 separate re-
search units when the center is
completed, as well as a scientific
university to train workers. In
two years the population will
be 75,000, and eventually 50,000.
The work is being done in a
niched of predicted urban population
bonds, but good old Russian
people-planning. Determined
people, those Reds. The whole
project was conceived only three
years ago.

Naturally, there must be some
added incentives to get people
leaving the relative comfort
west of Russia for the isolation
and chill of Siberia. A simple
thing like a little extra living
space is considered a major in-
centive.

In a brief question period fol-
lowing the talk, Dr. Brown was
asked what the status of in-
tellectual freedom was in Rus-
sia. His reply was that the free-
dom, while limited by our own
standards, has been increasing
ever since Stalin's death and
that it will presumably continua
to increase in the future, bar-
ing any major ideological chang-
er in the Soviet science struc-
ture.

Soccer Opener

(Continued from page 7)

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