Bob Walsh

Walsh Pickled To Head Tech's Model UN Men

Bob Walsh, editor of the California Tech, was picked as chairman of Caltech's delegation to the forthcoming Model United Nations at the meeting of the BOD last Monday night. He will replace Mike Talcott, previously selected chairman, who resigned last week because of academic pressure.

The delegation of seven Tech men, representing Australasia, will travel to the University of Washington for the assembly, which lasts from April 23 through 26.

The delegation will be chosen by the BOD at its meeting next Monday night. Applicants have already been asked to notify Dick Kirk, ASCIT President, of their candidacy before the meeting.

William Hose

As this year's host, the University of Washington will supply room and board, and a banquet and concert for entertainment.

ASCIT will help finance the expenditures of the trip to Seattle, which include $40 for travel fare and $20 for room and board.

The Model UN consists of approximately 200 delegates from all regions of the West Coast as far east as Utah. The country which each school is to represent is selected in accordance with the size of the school and its performance during the previous year's session.

Caltech Glee Club Plans Concert Tour To Bakersfield

A two-day trip to Bakersfield, Calif., February 20-21, will highlight the busy second-term activities of the Caltech Glee Club. Director Ed Proskak and President Ted Oakberg will accompany the club on its first tour outside of the Los Angeles area.

Included in the stay are three concerts in local high schools and two church programs. The Tech boys will receive room and board from the churches of the town.

Another feature of the winter season will be an appearance at the Burbank Methodist Church on February 21, and the performance of a series of monthly concerts by college glee clubs at the church.

To prepare for these two performances, extra Sunday practice sessions have been held, rehearsing the 24 selections in the group's repertoire. The Burbank concert will include 18 of these numbers.

Next Monday night, the sixteen voice members will rehearse their traditional engagement for the Western Service League meeting in the Caltech Christian Fellowship in their Wednesday noon meetings at 12:25, 29, and Feb. 5.


The club has scheduled a return concert at the Westminster Presbyterian Church on February 9, with a membership of 2,000, the church serves most of the Los Angeles area.

Also, the Glee Club will sponsor the fifth annual Interhouse Sing, tentatively scheduled for March 6. Held in the gym, the Sing is a vocal competition entered by a chorus from each of the houses.

TRUSTEE

John Simon Flue, Los Angeles industrialist, has been elected to the Caltech Board of Trustees at its meeting held February 12, at the trustees' house at the Bel Air Club.

Flue is president of the Pacific Mutual Life Insurance Company, a position he has held for ten years. He is a member of the Los Angeles branch of the American Cancer Society. For the last four years he has been general chairman of the Leukemia Fund Drive of the Y. M. C. A.

AUFS Man Finds Tech Alive, Alert

Expert Visits Several Universities; Considers Tech High Spot in Tour

Students and faculty members at Caltech form the "most alive, alert and stimulating group I've met yet," according to Dr. Willard H. LeBrecht, professor of English, who spent the last 10 days on campus.

Hanna, who just returned from a year and a half of travel in Indonesia and the rest of Southeast Asia, spoke before several classes, clubs, seminars and faculty groups during his visit. He warned of a "deterioration" in Indonesia that could lead to Communism.

Bob Walsh

When asked how he felt about his visit to Tech he commented: "You'll think I am buttering you up, but it is the truth. Caltech is the high spot in my academic tour. The professors and students impressed me and showed brains at work."

Hanna's AUFS tour has included several eastern, southern and mid-western universities. The next stop is Harvard. After the academic year, he plans to spend several months writing before returning to Southeast Asia.

"I have a wife especially enjoyed the visit," added Hanna. "They showed us unbrouthed hospitality."

Hanna was particularly impressed by Techman's interest in scholarship and education. "Science is not enough. Tomorrow's scientists must have political and economic savvy as well," he warned.

A. G. Maddox, who has spent the last two years in Mexico, will be the next AUFS visitor. He will be on campus Jan. 20-26.

Frosh Slate Announced

Nominations for freshman class offices were opened last Thursday and closed Tuesday, and are to be closed today at the freshman class meeting scheduled for Thursday, January 23.

The following men announced their candidacy before press time Monday noon:

President: Kendall Casey; Dohn Scheldt; Vice-President: Stan Sajdera. Secretary: Dick Jones. Treasurer: Don Forrest.

Athletic Manager: Cleve Moler; Room Control: Bill Bauer; County Cow, Sid Lebovich. These candidates, and any others who may be nominated before the deadline today, will be introduced at the meeting.

Nominations may be called for by the ASCIT election committee, headed by Bill Sanders.

Lefebre expressed disappointment at the small turn-out; students leaders will distribute and collect the ballots for their individual sections. Ballots will be tallied Thursday, January 23, and will be by sections; questions on leaders will be considered by the ASCIT election committee, headed by Bill Sanders.

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SCORCEBOARD

Basketball

Caltech 67; UCR 50

Caltech 51; UCS 38
FRENCHMAN CAMP

There was a good chance that this year's last New Student Camp. The atmosphere was too formal, the upperclassmen were not adequately prepared nor were they sufficiently consummated, the faculty was too long-winded, it was cold, dusty, etc. Some were legitimate complaints.

For this reason the board is planning to appoint a committee next week, the purpose of which will be to produce a proposal of changes in the Camp. There have been many random suggestions; now is the time for concerted effort to train the year's order of business.

ASCIT FORMAL

The ASCIT Formal will be held on Monday evening, February 28. The place will be the Beverley Hills Hotel. The band will be announced. Jarilla Gutierrez will sing "Memory" from the musical "South Pacific." One of the attractions will be the best color photos ever taken of the ASCIT group!

MOBILGAS ECONOMY RUN

At long last a chance has arisen for the job of chief observer for the Economy Run. He is Jim Workman, graduate student in Mechanical Engineering. With Workman in charge, Caltech has been accepted by Mobilgas to handle official observation on the Run.

MODEL UNITED NATIONS

The former chairman of the Model U. N. Delegation has, unfortunately, had to resign. For this reason the board has appointed Bob Walsh as the new chairman.

The rest of the delegation will be appointed at next week’s board meeting. Anyone interested should come to the board meeting on Tuesday, February 22.

ASCIT ELECTIONS

Nominations for the following offices will be held in Calburtton at 11:00 a.m. on February 13. The elections will be held on February 27. Michael Godfrey, ASCIT Secretary

Editor's Note

The new French Premier, Félix Gaillard, faces many problems, including an empty treasury, uncontrolled inflation, and the threat of mass trade union strikes. The potential catastrophe which each of these problems implies, however, is minor compared to the real danger of a revolution which seems certain to hit the French within the next few months. Gaillard must recognize the fact that they have lost Algeria.

France has become very important to the French now that they have no more colonies. First there was June, 1940, then Indochina, and most recently, Suez. Algeria has now been taken by the French and is likely to be lost, which means that their total economic strength will have diminished. As a result of this, the working class and labor groups are demanding more pay, more food, better housing, and the right to strike. The French government is already suffering from the demands of the Gewerkschaften (trade unions) of France.

Recent events have shown that, in three months, Russia will have incomparable military strength in the Middle East and the Atlantic and Pacific Oceans. Russia has also been doing work in the Middle East and the Pacific, and is beginning to establish a foothold in Africa. This is a very serious situation for France, especially since it has no military bases in these areas.

In conclusion, the French government must take immediate action to stabilize the situation in France. They must work to prevent a revolution, and to keep the French people calm and content. This can be done by increasing the salaries of workers, reducing the cost of living, and establishing a strong military presence in France.

THE OUTSIDE WORLD

By Alan Cartis

The new French Premier, Félix Gaillard, faces many problems, especially an empty treasury, uncontrolled inflation, and the threat of mass trade union strikes. The potential catastrophe which each of these problems implies, however, is minor compared to the real danger that the French face if they lose Algeria. The French government must recognize the fact that they have lost Algeria.

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NOTES

The French are now engaged in a many-sided struggle for survival. They are fighting for their very existence against the constant threat of revolution. The French government must take immediate action to prevent a revolution. They must work to keep the French people calm and content. This can be done by increasing the salaries of workers, reducing the cost of living, and establishing a strong military presence in France.

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Tech Clobbers UCR for Third Straight

Caltech's cagers smashed the University of California at Riverside for their third straight victory, 67-50, last Saturday on the losers' court. It was never really a contest as the Beavers quickly grabbed the lead, held a 25-25 halftime advantage, and were never seriously challenged.

Bob Emmerling dropped in ten field goals and added one free throw to lead both teams with twenty-one points. Glen Converse and John Stene both scored sixteen—standout performances that hardly made up for the loss of userid Fred Newman.

Coach Gene Rock started sending in subs during the second quarter and by the end of the game every team member had played. The win brings Tech's season record to a very fine 2-1.

The frosh team also downed UCR just previous to the varsity tip off. Pomona-Claremont has opened with a 2-0 league record. After losing the Beavers' season opener and Jim Brewer, three pole vaulters who have done so much to popularize the event in the eyes of the American public... Lew Burdette, who rode out a storm of controversy about wet baseball and proceeded to sink the already legendary Yankees in the World Series... Don Bowen, America's first member of the 15 miles per hour club in the mile run... Y. A. Tittle and John Unitas, two of the most effective throwers in the realm of professional football... Bob White, Ohio State's answer to the Bronco Nagurski legends... Bob Conoy and Hill Russell, two of the ten men who comprise the greatest basketball team of all time, the Boston Cel­ tics... Walt Chamberlain, a pro basketball prospect when in high school and an all-time great in college... Barry MacKay, America's chief hope in plans for a reacquisition of the Davis

Opinion

AS I SEE IT

by Dick Van Kirk

The year 1957 will live as one of the brightest years in the sec­ond golden age of sport in the U. S. Just as the twenties pro­duced their heroes and legendary figures of sport, so have the fifties put forth a bright array of athletic heroes. It is perhaps a bit difficult for competitive youngsters like ourselves to con­ceive of our contemporary her­oes as becoming legendary fig­ures with the stature in memory of Babe Ruth, or a Red Grange, or a Jack Dempsey; but who knows?

When we youngsters become oldtimers, we shall sit back and sip tales of the feats of people like Stan Musial and Ted Williams, two baseball players who are not only among living legend­aries, but who show signs of ability to create several more legends before they retire. ... Sugar Ray Robinson, labeled by some as greedy, by others as generous to a fault, but acclaim­ed by all as one of the finest and most courageous of work­men ever to step in a boxing ring. ... Wee Will Shoemaker, a jockey recognized as the win­ningest in the business, who may have earned legendary status by committing one of his rare rid­ing mistakes in the stretch of the daddy of all races, the Derby. ... Bob Gousetz, Bob Richards, Jim Brewer, three pole vaulters who have done so much to popularize the event in the eyes of the American public... Lew Burdette, who rode out a storm of controversy about wet baseball and proceeded to sink the already legendary Yankees in the World Series... Don Bowen, America's first member of the 15 miles per hour club in the mile run... Y. A. Tittle and John Unitas, two of the most effective throwers in the realm of professional football... Bob White, Ohio State's answer to the Bronco Nagurski legends... Bob Conoy and Hill Russell, two of the ten men who comprise the greatest basketball team of all time, the Boston Cel­ tics... Walt Chamberlain, a pro basketball prospect when in high school and an all-time great in college... Barry MacKay, America's chief hope in plans for a reacquisition of the Davis

(Continued on page 5)
Pit and Paddock

by Crissman, Eglinton & Norton

We outstanding ourselves this week. We dressed up in rented tuxedos and marched bravely into the Ferrari Representatives of California. Mr. Roy Loveloy, no less, was taken in by our clever ruse and showed us around the establishment.

We were immediately shown to von Neuman’s brand new 3 liter, 300 horse power Testa Rosa Red Head, which just happens to be the only one in the country at this time. The machinery were busy getting it ready to send out Argentina next week.

More fitting to our costume was the Berlinoita coupe, a lighter, more streamlined version of the Gran Turismo Ferrari. It was the same car that won the Tour de France and finished fourth overall in the 1957 Milie-Miglia.

Upon asking prices we were told that the Gran Turismo 3 liter coupe sells for a paltry $12,000 and a new 2 liter Testa Rosa can be purchased for a mere $11,000. After pooling our resources, we found that we did not quite have the change. Under the pretense of checking our checkbooks, we made our getaway.

We took in the imported car show at the Shrine auditorium last Friday evening. This show, which ends this weekend, is terrific. We had a gay time sitting in every thing from an Isetta to a new 300 SL Roadster. Norton got stuck in a Berkely, but we managed to get him out after an hour’s hard labor. We tried to sit in a Maserati, but some boyo had locked the doors. I wonder why?

CAMPUS BREWINS

Good Line

That ubiquitous casanova, M. Milder was squiring a young lady at the Scurvey House exchange last night. The line he used on this chick was one of the most unique that Beak has ever heard.

It all started when out of the clear blue he asked her if she likes to be pushed around. The answer was sort of garbled but this didn’t slow Mike down. His next question was more to the point, namely, “Why don’t we relieve our tensions?” Her courteous reply was, “Let’s dance.” You would think that by now he would get the hint, but the final blow came when she said, “I have to be in by 11 unless I take an overnight and I haven’t any place to stay.” Master mixed Milder thought this one over for a while. Quoth he, “Am I being propositioned?”

THE OUTSIDE WORLD

(Continued from page 2)

A Tech Favorite

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The usual Paul Proverbs.

Mighty Paul M. was really impressed with things south of the border, so now he is offering to the highest bidder a trip to So. America in his jeep. Deal is reputed to include his sister. Saul Scores

Beak has found the person on campus who is the most hard up socially of us all. One o’clock Sunday afternoon rolled around and Alvy’s black box gave a gentle ring pulling poor S. D. pachico out of his beauty sleep. Voice on the other end explained that there were three ready, willing and able nurses at L. A. County who wanted to go to the beach with him alone. Saul rose to the occasion (in more ways than one) and trotted off for the beach with these young lasses. Beak couldn’t get all the details but Saul came back late that night looking very spent.

by Crissman, Eglinton & Norton

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MEASURE

the scientific environment at UCRL

Electronic Engineers

Physicists

Chemists

Mathematicians

Mechanical Engineers

Chemical Engineers

THE CHALLENGE

Current projects at UCRL are at the very frontier of nuclear research. Assignments are fresh and stimulating at all levels. Here one can exercise his creative imagination—as well as his ability—to help solve fundamental problems in nuclear science.

ASSOCIATES

Men noted for outstanding accomplishments in your field are on the UCRL staff. Many of them have contributed to significant achievements in the nuclear field. You share their pioneering knowledge—and have their encouragement—at UCRL.

FACILITIES

Generally considered unmatched in the field, UCRL facilities give project workers access to all the latest instruments of research—from high-speed digital computers, water fission reactors, particle accelerators, to facilities in nuclear magnetic resonance-electron spin resonance.

ATMOSPHERE

UCRL is directed by scientists and engineers. Here you’ll find the right “climate” for work and advancement. v

A UCRL staff member will visit your campus January 27, 28 to give you complete details on future opportunities at UCRL. Contact Placement Office now for appointment.
Human Review
by Bob Blanford
The purpose of this article is to outline an idea which is not
widely enough recognized at the present.
Briefly the idea is this: our world economy today is
completely industrialized and is dependent on low grade ores
which require involved processing.
This economy is far more
vulnerable to physical damage
than any economy before it. In
deed, it seems to be so vulnera-
table that a world war could dis-
rupt it so that it could not start
again. This would result in wide-
spread starvation and a revolu-
tion to an agricultural society.
When the first oil drills were
being sunk, oil was often found
only a few feet deep. Today we
make a hike into the Gulf of
Mexico, erect a platform and
sink a shaft miles into the earth.
Once we scraped coal from the
surface of the earth with steam
shovels. Now we are learning to
mine thin seams and are even
thinking of burning out thin
seams underground. To mine a
thin seam we use crawling, com-
plicated machines with iron
rakes and conveyor belts.
Once we smelted ninety per-
cent iron ore. Now we are learn-
ing the more complicated and
delicate methods necessary to
smelt twenty-five percent tanco-
nite.
All of these more complicat-
techniques for getting raw
materials use more power than
the older techniques. All of
them are more dependent for
their continued operation upon
a smooth flowing economy. All
of them would be difficult to
start from scratch. The ques-
tion is, "Where can you begin
to build it up again?"

Dr. Harrison Brown, of Cal-
tech, in his book, "The Challenge
of Man's Future," continues this
argument to propose that starva-
tion and an agricultural society
would follow a major disruption of
the world economy. He uses the
following illustration.

After World War II Western Europe took several years to get
back on its economic feet. This
was true even though a lot of
aid poured in from the undis-
turbed United States and even
though high-grade ores were
available. What would be the
situation today if every country
in the world were mangled and
there was no country to offer
help?

In the current "Bulletin of
Astronomy," Dr. Brown men-
tions the following example.
A power supply network back
started toward several stations
and had grown like Topsy over
several years. Once a thunder-
storm disrupted the network in
six or seven places and suddenly
people realized that if the net-
work stopped there was literally
no one who knew how to start it
again.

In Brown's words: "As we
see, industrial society as a
whole is extremely vulnerable
to disruption by war, and the
vulnerability is increasing rap-
Idly as weapons become more
effective, and the range of
warfare increases, as the people
become more dependent upon
the smooth functioning of the
industrial network, and as the
reservoir of easily obtainable
resources decreases. It is clear
that industrial civilization can't
afford the luxury of many
more wars.

It is conceivable that the next
war could shatter industry
that it would be unable to re-
cover. On the other hand there is
also conceivable that it could survive two or three more. But
in any case, the number which
can be tolerated is finite, and
each conflict will decrease fur-
ther the probability that industrial civilization will continue to
exist.

When these ideas are discuss-
ed I often notice that people be-
come impatient and want to talk
about more practical matters
like personal relations. I feel
that students at least should be
worried enough about these ideas
to discuss them, to write about
them to their friends; and to
to ignore the example of the man
who was accused of negative
thinking because he informed
his friends that the ship was
sinking.

As I SEE IT
(Continued from page 3)
Cup. . . Mickey Mantle, another
in a long line of baseball fig-
ures in pin-striped baseball suits.

Take your pick and spin your
yarn about any of these men.
There's not much doubt that a
few of these will join the Rosses,
Cubbs, Gragsons, Jones, and
Rocknes in the ranks of the
timeless sports heroes.

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New . . . Parking in Rear

John Reiter (right) discusses the route of signals from the
transmission route, and determining
measures necessary to avoid their effects.

"Not the least part of the job was
calculating the system through the
15 stages of a microwave receiver.

"This was the kind of challenge I was looking for"
Here's what John A. Reiter, Jr., B.S.
in Electronics, Arizona State College,
's; says about the biggest project so far
in his Bell System career.

"This was the kind of challenge I was looking for—a chance to assist in plan-
ning a microwave radio relay system
between Phoenix and Flagstaff, Arizona.
Five intermediate relay stations would be
added to the system. I began by planning the
tower locations on 'line of sight' paths
between Phoenix and Flagstaff, Arizona.
This assignment is an example of the
challenges a technical man can find in the
telephone company. I took the job
from start to finish—from basic field
studies to the final adjustments—with
full responsibility. To technical minds
this is what one really wants to get ahead, that's the ultimate
in responsibility.

John Reiter is building his career with Mountain States
Telephone and Telegraph Company. Find out about the
career opportunities for you. Talk with the Bell inter-
viewer when he visits your campus. And read the Bell
Telephone booklet on file in your Placement Office, or
write for a copy of "Challenge and Opportunity" to:
College Employment Supervisor, American Telephone
and Telegraph Company, 195 Broadway, New York 7, N. Y.
The first in the scale, or tone, and the one a fifth higher than this, the dominant. The music of these writers will be seen always to revolve around one particular tone, although there are no limitations placed upon harmonies, as in the old key system.

Twelve Tone

The last and most radical of the new harmonies was the twelve tone system, invented by Arnold Schoenberg. This consists of picking a random sequence of twelve notes from twelve tones of the chromatic scale and using this as a theme upon which to build. After development, this system became very interesting. An extreme example of twelve-tone writing is Schoenberg's "Song of the Night."

**This Week's Interview Schedule**

- Thurs. 16-BS, MS, PhD/Ph, Ch, Ma, Ae, EE, ME Aeronautics Research Laboratories, Inc., Glendale, Calif.
- Thurs. 16-BS, MS, PhD/ME, EE, MS, PhD/Ph, Ma Aeronautics Manufacturing Co.
- Thurs. 16-BS/EE, ME, Ch, Ch, Bld, Mfg, Industry, Inc., Los Angeles.
- Fri. 17-BS, MS/EE Electro Engineering Works, Inc., San Leandro, Calif.
- Fri. 17-BS, MS/Ch, ME, Chf, EE, Aeronautical & Electro Engineering Com., Redlands, Calif.
- Fri. 17-BS, MS/PhD/ME, EE, Ph, N.A.C.A. — Ames Aeronaautical Lab and High Speed Flight Station.
- Fri. 17-BS, MS, PhD/EE, Ph, Musical Instruments, Inc., Calif. Divn, Calif.
- Fri. 17-BS/Ch, EE, ME Southern California Edison Com., Los Angeles, Calif.
- Mon. 20-BS up/CE California Department of Water Resources Summer employment for any engineering student.
- Mon. 20-MS, PhD/Chf 120th Corporation Summer employment for ChEs approximately one year from MS or PhD degrees.
- Mon. 20, Tues. 21-BS sup/ME, EE, Ph, Minneapolis-Honeywell Regulator Company.
- Mon. 20, Tues. 21-BS, MS/PhD/Chf, Ch, Ma, ME, ME Standard Oil Company of California.
- Tues. 21-BS, MS/Chf, CE, EE, ME Colgate-Palmolive Company.
- Tues. 21-BS sup/EE, Ph, Music, Air Force Flight Test Center, Edwards Air Force Base, Calif.
- Tues. 21-BS/CE, EE, Ph, Ma, ME/Ph, Chf Southern California Edison Com., Los Angeles, Calif.
- Wed. 22-BS/CE, EE, ME Brown Citrus Machinery, Whittier, Calif. Interested in ME for drafting during summer vacation.
- Wed. 22-BS/ME, EE, CE, Ch, Carnation Company, Los Angeles, Calif.
- Thurs. 23-BS, MS, PhD/Ph, Ch, Ma, Ae, EE, ME Aeronautics Research Laboratories, Inc., Glendale, Calif.

IBM campus interviews for 1958 graduates with B.A., B.S., M.A., M.S., Ph.D. DEGREES

**Janurary 23, 24**

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