Coed Confab Planned By Y

Plans for a joint student-faculty conference at Caltech and Whittier College in February are being completed by the Caltech YMCA.

The conference, a variation on last year's popular retreat, will be characterized by informal discussions on a topic concerning the interrelation of art, religion, and science, and their effect on one's personal values and philosophy.

An open planning session is to be held tonight at 7:30 in the Y lounge. Anyone interested is invited to put in his two-cents' worth.

Special committees will be appointed by the Y Cabinet to plan and conduct each program. The Y's program is preparing a list of those who express interest in these committees.

Full Publication Aids Job Seekers

A new publication, The Caltech Placement Guide, has been distributed to upperclassmen and graduates during Monday's registration. The 28-page booklet includes a complete list of interviews for the coming season, as well as a brief resume of each firm's activities.

The booklet is compiled and published by Dave Leeson and Bob Walsh, as a reference for the job-seeking student. Extra copies are available in room 130, Throop, at no charge.

Leaders

RadhaKrishnan, Reuter, Randall, King To Be Here

The YMCA has announced this year there will be four outstanding "Leaders of America" visiting the Caltech Campus this year: Clarence B. Randall, Victor Reuter, Sarvapalli Radhakrishnan, and Martin Luther King, Jr.

From February 10 to 11, Clarence B. Randall, special advisor to President Eisenhower on foreign economic policy, will address the student body. Mr. Randall has been a member of the National Association of Manufacturers, and the Business Statesman of the Year for 1954 in the Association.

Before his present position, he has been President of the Inland Steel Company, and is still chairman of their board. Mr. Randall was Chairman of the Committee on Foreign Economic Policy.

From February 26 to 27, Reverend Martin Luther King will speak to the student body and faculty groups. Dr. King was the leader of the negro boys' boycott in Montgomery, Alabama, as president of the Montgomery Improvement Association.

Martin Luther King, Jr.

Freshmen To Open Nominations

Nominations for freshmen class officers will be open today, according to Freshman Class President Sid Leibovich. Freshmen have until Wednesday noon to nomi- nation in writing to Leibovich. Nominations will remain open until next Thursday.

A freshman desiring to run for class office should write his name and the office he seeks on a sthree-line form of paper, seal it in an envelope, and place it in the "L" box in Ricketts or bring it to Leibovich. Those nominations received be- fore 7 p.m. Monday will be list- ed in the California Tech.

Class Meeting

A general freshman class meeting is scheduled for 11 a.m. next Thursday. The time the nominations will be closed and the candidates introduced. Voting will take place Thursday, January 25, and will be se- cured by the Caltech Y. Each candidate will distribute and collect the ballots for their individual sections. Ballots and tallying will be handled by the ASCIT Election Committee, headed by Red Saunders.

Indonesian Expert Comes to Caltech

Hanna Sees Possibility of Soviet Gain

in Current Indonesian Political Crisis

by Al Carlin

There is a very real possibility that Indonesia will fall within the Soviet orbit. Such is the considered judgment of an expert, Dr. Willard A. Hanna, the first of this year's American University Field Staff for the Philippine and Indonesian area.

While he does not expect any imminent Communist seizure of political power, he does foretell a heightening of Communist presence in the government. He predicts a steady increase in the level of living, as a result of Communist gains over the past year. He definitely foresees a strengthening of Russia's hold on the Indies, which is being strengthened by the recent installations of new Soviet military bases, including oil refineries, airfields, and training camps.

Sensing this, President Sukarno has written off democracy as unworkable in Indonesia and has come out for a "guided democracy" as the "best solution to the present crisis." His government will be composed of all major parties, including the Com- munist Party of Indonesia, which President Sukarno has become increasingly identified with leftist elements.

Apparently in an effort to direct attention away from the country's own urgent internal problems, the president has for- mulated a "New Indonesia" plan that the Dutch leave West New Guinea. His recent confiscation of Dutch property, Hanna believes, was an effort to apply pressure to the Dutch.

What can the U.S. do about the situation? Not much, according to Hanna. He believes that our best course is to be "ready and eager to help Indonesia," but to be careful not to "push ourselves on the Dutch and encourage them to become a "second-rate" power, this thoughtful analyst, just returned from a year and a half spent in Scandinavia, would be willing to try to learn something from the Indonesians, especially in the area of culture. Our basic problem in trying to help them, in fact, is that unlike the Scandinavians, the Indonesians are not at all anxious to separate herself from western control.

(Continued on page 6)
Grades don’t mean nothing”—a well worn phrase at about this time. But grades do mean something, although exactly what is not quite clear.

I think everybody will agree that the person who makes a 4.3 has more on the ball than someone with a 0.0. However, it is not so easy to compare a 3.0 and a 2.5. The higher grade does indeed indicate something; it indicates many things. In fact, it indicates so very many things that it is impossible to indicate the student’s intellectual capabilities on the basis of his GPA alone.

The GPA is a function of intelligence, diligence, emotional stability, personality, health, values, and—you can probably add a few more yourself. Admittedly how well you will do in a job at grad school or whatever you do is also a function of these factors, but the function varies from grad school to job to job, and at no time will it correspond with the GPA.

This will surely show our GPAs to be at best, crude estimates of our intellectual capabilities. Yet, our lives will be significantly influenced by those silly little numbers. In the name of “objectivity” our souls are shriveled up into a single number, and our futures must rest on it.

Clearly something better is to be desired, and I think it can be found in the repudiation of our preoccupation with numbers and our willingness to learn English again. If you want to describe people, numbers, you are certainly going to have to use more than one of them.

Grades have another excuse for existence besides being handier and more tractable. They are supposed to inspire the troops to strive for greater intellectual glories, but what they inspire the troops to do is, simply, to strive for better grades. Rather than encouraging the students to work harder, the present grading system helps cause some to become laggards, others to become cynics, still others to become pedants, and still others to become doctors, lawyers, writers, business executives, etc.

The present grading system is not good. But what would be better? Just passing and failing would put an end to the burdensome competition between students and free them to use their time better (or worse). But how many employers going to know whom to hire, or a grad school whom to admit?

I think the job can best be done by having each instructor write a brief report about the progress of each student in his class. And then too, he should indicate whether the student has passed or failed in order to determine whether the student should be required to take the course over and to determine whether he has accumulated the proper number of units for graduation.

The reports could be as long and as detailed as the instructor pleases. If an instructor knows a great deal about his students that might be of interest to an employer or a grad school, he should write a long report. On the other hand, if there is nothing unique about a student, the instructor need not be required to write a report at all. Why introduce this measure of flexibility into the grading system, the instructors would not be required to judge the students on insufficient evidence as they are now.

Furthermore, the instructors would be able to judge the student’s intellectual potentialities in a more meaningful and descriptive way—they could un-tangle all the factors that influence the GPA and judge the student from several points of view. Under this system of reports the troops would truly be encouraged to learn about the whole subject, and not just how to squeeze out a few more points on the test.

It might be argued that this system of reports would introduce some subjectivity on the part of the instructors into the grading system. In humanities courses there is, of course, an unavoidable subjectivity no matter what system of grading you use. In problem courses it is true that some subjectivity would be introduced where there is none now. But I for one would prefer a little subjectivity to stupid”—the stupidity of equating the student’s group of the subject with his ability to cool a few tests.

Because engineering is a profession at GM—we offer you a career—not a job

One reason engineering standards at General Motors are so high is that GM recognizes engineering as a profession. And the men who engineer the many different products made by General Motors are respected for the profession they practice.

That is why, when you are invited to join General Motors as an engineer, you don’t simply take a job—you start a career.

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You are given the opportunity to obtain professional recognition through participation in engineering society forums, presentation of technical papers, winning of patents and other recognition of your accomplishments. And you are also encouraged to take an active role in your community’s affairs—because a truly professional man is a good citizen as well as a good engineer.

June graduates! A General Motors Representative will be on hand to answer questions about job opportunities with GM.

January 14, 13

GM positions now available in these fields: MECHANICAL ENGINEERING • ELECTRICAL ENGINEERING INDUSTRIAL ENGINEERING • METALLURGICAL ENGINEERING AEROSPACE ENGINEERING • CHEMICAL ENGINEERING CERAMIC ENGINEERING • MATHEMATICS INDUSTRIAL DESIGN • PHYSICS • CHEMISTRY
Global News

FRANCE CAMEROONS
French Defense Minister Jac- ques Chailan-Delmas sent troops to help arrest a Communist-led revolt in the Cameroons before the situation developed into another Algeria. The Cameroons is now a French trusteeship. The rebels are fighting for their independence, while blindly following their magnetic Red leaders.

VENEZUELA
Venezuela's President and do- tator General Perez Jimenez who has been in power since a coup d'etat in 1958 successfully stifled a haphazard New Year's revolt. The uprising started at Maracay when two members refused to and the riots spread to the capital, Caracas. Most of the army remained loyal and there were few casualties.

ISRAEL
David Ben-Gurion, leader of Israel's Socialist Labor party (Mapai), dissolved his cabinet when two members refused to resign after revealing a plan for procuring arms from West Ger­many. Ben-Gurion got a new cabi­net and an agreement to main­tain secrecy on state security matters, but made no progress on the arms problem.

CONGRESS
The 85th Congress returned for its second session Tuesday with the Democrats controlling the Senate 54-46 and the House 250-70. The Democrats are ques­tioning Ike's leadership as well. Press secretary Hagerty says that the budget is balanced, though defense spending is up two billion dollars from a previ­ous 38 billion while taxes are to be unchanged. The budget is still one of the major issues facing Congress.

Other important issues:
- The administration wants more sharing of atomic secrets with friendly nations.
- He asked for a five-year extension of the reciprocable trade agreement which allows him to lower our tariffs for countries which do the same for us.
- Many Congressmen desire a general military shake-up and perhaps a single chief-of-staff.
- The administration wants an increase in foreign aid spending of one billion dollars over last year's 8.3 billion. They are try­ing to meet Russia's offers of loans and technicians to under-developed areas.

The Democrats hope to stop an economic fall. (Unemploy­ment insurance claims for De­cember were the largest in twenty years.)
- The administration also is asking for one billion dollars to be used in education over the next four years. The money will go for more college teachers, encouragement of math and science, and scholarships for bright-students.

FOREIGN POLICY
United States policy towards Russia's request for a summit peace conference remains unset­tled. Both Dulles and Eisen­hower feel that little can be ac­complished and tend to place more trust on our missile bases.
- The present NATO representa­tive's meeting will coordinate re­plies to Bulganin and compro­mises the United States desires for progress at lower levels with British and French hopes for a summit con­ference.

Britain is also urging the U.S. and others to join her and give economic aid to Communist threatened countries.

GAVIN
James M. Gavin, head of the Army's research and develop­ment program resigned because he could do more work from the outside than from the inside. Lyndon Johnson, chairman of the Senate Preparedness Com­mittee is going to investigate to see if government tactics and in­ference forced Gavin out.

"In a growing industry, there's room for me to grow"

"Here at General Electric," says Penn R. Post, 24­year-old marketing trainee, "you hear a lot of talk about the future — as far ahead as 1978. In fact, I've discovered that planning ahead for Amer­ica's needs 10 and 20 years from now is characteristic of the electrical industry. And, when I was in college, General Electric's long-range planning takes my future into account. I'm now on my fourth assign­ment in the Company's Technical Marketing Program as a marketing development.

"I'm pretty confident about the electrical future, too. For one thing, America's use of electricity has been doubling every ten years. And it will increase faster as the population grows another 65 mil­lion by 1978 — and as research and development lead to new electrical products that help people live bet­ter. The way I look at it, the technical, manufactur­ing and marketing resources of large companies like
Classical Music

Heard From The Wings

by Joel Yellin

Last Thursday and Friday at the Philharmonic, and again on Sunday here in Pasadena, the Los Angeles Philharmonic Orchestra performed an all Brahms program under guest conductor Bernard Haitink. Appearing as soloist was violin virtuoso Yehudi Menuhin. Mr. Haitink, who I understand made his American debut Thursday night, showed himself to be a mature interpreter of this difficult music.

First on the bill was the Tragic Overture, a work requiring careful handling, especially in the numerous entrances of the brass. Too many of these entrances blared out roughly, and Mr. Haitink seemed a little nervous, lacking a certain degree of control.

PROGRAMMED NEXT was the Brahms Violin Concerto. Though Mr. Menuhin's tone left something to be desired, his performance was solid otherwise. The accompaniment was sympathetic but not superior, always excepting Bert Gassman's flawless execution of the oboe solo in the second movement. On the whole, it was a satisfying performance, though it was not quite moving.

After intermission, Mr. Haitink returned to conduct the Fourth Symphony, and provided the high point of Thursday's program. The whole piece, and especially the second movement, was given an interpretation which showed a fine depth of musical understanding.

With each succeeding performance, the orchestra's popularity seems to grow without limit. It is impossible to give too much credit to the influence of Mr. Edward van Beinum, the Philharmonic's new conductor, in this trend. His acceptance of the Los Angeles position marks a turning point in the musical history of the Los Angeles area. If you appreciate orchestral music and have neglected to hear the Philharmonic since the advent of van Beinum, you have missed a wonderful experience.

MY RECORD DEALER tells me that Capitol Classics and RCA Red Seal will go up in price from $3.98 to $4.38 early this year. However, RCA will offer a Record Club similar to that of Columbia. The initial purchase will be the nine Beethoven symphonies, recorded by Toscanini, all for $4.98.

YOU MAY RECALL my mentioning Arthūs Rubenstein's recordings of the five Beethoven concerti for RCA. Previously, I mentioned the Fourth. Last week I bought the Sixth "Emperor" and discovered another fine performance in it. My one objection is that the sound is much too erratic. The range of volume requires continual fiddling with controls, and is somewhat of an annoyance.

AND IN THIS CORNER FRANKIE APOLLO!

...AND IN THIS CORNER FRANKIE APOLLO!

TODAY—10 ROUNDS THE TERRIBLE CARthagINIAN FOR FRANKIE APOLLO!

YOU DIG THAT FULL RICH FLAVOR, CARTH?

FRANKIE!

WINSTON TASTES GOOD!

LIKE A CIGARETTE SHOULD!

YOU DIG THAT FULL RICH FLAVOR, CARTh?

MAN, I MEAN LIKE ITS THE GREATEST!

AND A NEW CRUSH-PROOF BOX, TOO—LIKE WOW!
Basketball Schedule

VARSITY

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Fri.</td>
<td>8:00 p.m.</td>
<td>Caltech at Riverside</td>
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<tr>
<td>Wed.</td>
<td>8:00 p.m.</td>
<td>Pomona at Caltech</td>
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<td>Fri.</td>
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<td>Occidental at Caltech</td>
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<td>Sat.</td>
<td>8:00 p.m.</td>
<td>Caltech at LaVerne</td>
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<td>Caltech at Nazarenes</td>
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<td>Caltech at Redland</td>
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<td>Tue.</td>
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<td>L.A. State at Caltech</td>
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<td>Sun.</td>
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<td>Redlands at Caltech</td>
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<td>Fri.</td>
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<td>Caltech at Whittier</td>
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<td>Sat.</td>
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<td>Caltech at L.A State</td>
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<td>Thu.</td>
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<td>Fri.</td>
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<td>Sat.</td>
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<td>Thu.</td>
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<td>UC, Riverside at Caltech</td>
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Muraoka Leads Red to IH Swim Victory

Fleming pulled out a surprise upset victory in interhouse swimming.

Ken Muraoka, Fleming's Hawaiian terror, breezed to firsts in the 50-yard free and the 50-yard breast and anchored the record-breaking 200-yard relay.

Fleming took firsts in every event except the 50-yard back, where they took second, third and fifth to compensate. With this as a firm start, the boys from Fleming went on to pile up the astounding total of 83 points out of a total of 135 possible.

RESULTS

Medley relay — 1, Fleming; 2, McLane; 3, St. John's; 4, Whittier.

For results of all other events, please see your campus Schedule on your campus January 13, 14.

Sailing Club

Places Eighth

The Caltech Sailing Club represented Caltech at the Pacific Coast Intercollegiate Sailing Championships at Newport Harbor last December 21 and 22.

The meet, consisting of a complete round-robin, was under the auspices of the Pacific Coast Intercollegiate Yacht Racing Association.

The end of the first day's races found Tech in eighth place, followed by only two other teams. Sailing in Lehman 10 dinghies with fiberglass hulls and aluminum masts and spars, the sea men improved on Saturday's results to finish seventh.

The final results were Occidental 173, Stanford 174, Washington 171, Orange Coast 158, Santa Barbara 128, Mendo 97, Caltech 85, Claremont 84, U of California 83, Harbor J. C. 82.

DO SPEED AND SPACE EXCITE YOU?

You can be a career speed merchant if you're an engineer. You may make speed history, if you choose. Charlie Woolsey, whose Crusader fighter has set three national records. Ask about exciting opportunities until you see the AC REPRESENTATIVE

...until you see the AC-GENERAL MOTORS REPRESENTATIVE on your campus January 13, 14

Do speed and space excite you? You can be a career speed merchant if you're an engineer. You may make speed history, if you choose. Charlie Woolsey, whose Crusader fighter has set three national records. Ask about exciting opportunities until you see the AC REPRESENTATIVE.
Florida U. Here We Come

Beak is in mourning over the people who our fair reinstatement committee gave the boot. It is going to be tough to write a sheet like this without such old favorites as Kelly, Bell, Gilson, Jansen and many others. Beak has it from good authority that they are going to set up a Caltech outpost at the U. of Miami in Florida.

Christmas Cheer

Vacation is an excellent time to sit around and get stinking drunk!

Jerry Friedo Fun

Meats, Carmichael and Gilson toolied up to S. F. The only coherent thing that Beak can get out of them is that they were kicked out of four bars in four blocks but that they did find enough that would cater to their young ages to make things worthwhile. Women, liquor and money flowed rather freely and they want to go back and do it again.

Snow Showers

Beak was trying to set a land record from the east to Caltech by car. This try was done in a 52 Caddy with a leaky muffler. Things were going great until Queamado, New Mexico when the flag dropped on the Arden. We decided to crash and see what they could find some women that were "sophisticated." Well, word spread around the countryside. They dropped the bag on the Ard Apple Street and away went these two drag strip kings. End results were one totaled '49 Plymouth and three stitches in D. Tucker's eye. Tucker was riding shot gun for the blue bomb.

The BIG Men

Hal Yura and his baby killing friend of great fame, Marv, were looking for a great time where they could find some women that were "sophisticated." Well, word spread around the countryside of a real great party with just such women. These big men decided to crash and see what they could do for themselves. When they got in, both of them were delighted. Wow! What kitchen

HANNA
(Continued from page 1)

tion to her former colonial role.

While Hanna is not overjoyed by the size of American economic aid (The Russians have offered, but not thus far delivered, twenty times as much), he says that he is much encouraged by the increased awareness, interest, and knowledge of South-east Asia which he has found on this trip to America as compared with what he found here three years ago.

Hanna has been interested in this area of the globe since 1952, when he went to China for four years as a teacher. Later, he returned to what is apparently his primary interest; during the war he served in the Navy, landing on Okinawa with the occupation forces, becoming Chief of the Military Government Office of Educational and Cultural Af­ fairs. From 1947 to 1954 he held senior posts in the U.S. Govern­ ment information program, in­ cluding a year in the Philippines, a year in Japan and five years as Chief Public Affairs Officer in

Indonesia. Finally, in 1964, he joined AU­ PIB because it "permitted me to spend 75 percent of my time ob­ serving and watching instead of 75 percent of my time on adminis­ trative details." He enjoys his current schedule, which is to spend alternate one and a half year periods in Southeast Asia and the United States. Caltech scientists will have nu­ merous opportunities to hear him speak. Frank, stimulating observer during the coming week.

On Tuesday, January 14, he will speak on "A Muckraker's Indo­ nesia" before the Undergraduate Lunch Club at the training table. He will attempt to describe the current internal situation in Indone­ sia as seen through the eyes of a personal friend, a crusading Indonesian journalist who has exposed much of the corruption in the current regime.

On Thursday, January 14, he will speak on Indonesian's "Crisis in Foreign Relations" before the History 5, 1100 a.m. audience in 206 Dabney. All interested stu­ dents are invited to hear this lecture.

MEASURE

Can you imagine a situation where you can fill in the blanks with the correct measurements? The difficulty level varies, but let's give it a try:

1. The length of a football field is __________ feet.
2. The weight of a newborn baby is __________ pounds.
3. The capacity of a large water tank is __________ gallons.
4. The volume of a standard bowling ball is __________ cubic inches.
5. The speed of sound in air at room temperature is __________ miles per hour.

Now, let's apply what we just learned to a real-world scenario:

The flag dropped on the Arden. We decided to crash and see what they could find some women that were "sophisticated." Well, word spread around the countryside. They dropped the bag on the Ard Apple Street and away went these two drag strip kings. End results were one totaled '49 Plymouth and three stitches in D. Tucker's eye. Tucker was riding shot gun for the blue bomb.

THE CHALLENGE

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

ASSOCIATES

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

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

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UCRL is directed by sci­ entists and engineers. Here you'll find the "climate" for work and advancement, encouragement for initiative. And you'll enjoy the opportunity to work in the San Francisco Bay Area.

A UCRL staff member will visit your campus ___________ to give you complete details on future opportunities at UCRL. Contact Placement Office: ___________ now for appointment.

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DO MECHANICAL ENGINERS INTRIGUE YOU?

Do these intellectual quandaries arouse your engineering instincts? Then why go on & grafting? Especially if you're an electronics or mechanical major.

We've designed the company of the best mechanical engineers to enjoy the company of your own electronic brain for much gainful. Find out what's ahead at Choose Vought in this fast-growing field.

Our Representative will be in your placement office ___________.