The annual Caltech spon­ sored Jazz Festival "Hi-Lo's" will bring together the diverse and stimulating sounds of the International Jazz Festival on Feb. 10.

Dr. Ray D. Owen, geneticist and immunologist, has been ap­ pointed acting chairman of the Biology Division.

The 45-year-old professor of biology, noted for his work in the fields of blood groups and tissue transplantation, is suc­ ceeding Dr. George W. Beadle, Noble laureate, who is leaving to become chancellor of the Uni­ versity of Chicago. Dr. Owen assumes his new responsibilities this week and will work for several weeks with Dr. Beadle before the latter moves to the Midwest.

The new appointee continues the strong genetics tradition in Caltech's Biology Division. His first chairman was Dr. Thomas Hunt Morgan, a Nobel Prize winner in this field. Dr. Owen, who took over the chairman­ ship from Dr. Morgan in 1946, also was awarded the Nobel Prize for his work in genetics.

Dr. Owen, who has been at Caltech since 1946, is widely known for his work in heredity, especially in animals and man, and in the comparably new field of tissue trans­ plantation. The biologist is coopera­ tor with Adrian Srb of Cor­ nell University of the widely used textbook "Cytogenetics and Genet­ ics." He has contributed some 90 scientific papers on genetics.

Born in Geneseo, Ill., Dr. Owen graduated from Carroll College, Waukesha, Wis., with a bachelor of science degree in 1937 and received his Ph.D. at the University of Wisconsin in 1941.

His first came to Caltech in 1946 when he was awarded the Gensow post-doctoral fellowship in biology. At that time he was no less than a young assistant profes­ sor of genetics and zoology at the State University of Wisconsin. He became an asso­ icate professor at Caltech in 1947 and a professor in 1950. Dr. Owen is a consultant for the Oak Ridge National Labora­ tory, Oak Ridge, Tenn., and a member of the American Association for the Advance­ ment of Science, American Genetics

AUFS Eskimo Expert

Describes Arctic Life

BY MATT COUCH

The polar regions, the Arctic and the Antarctic, are the field of study for John Hanessian, Jr., member of the American Univer­ sities Field Staff and currently visiting Tech. In discussing these regions, Hanessian stresses sev­ eral different topics: The Antarc­ tic Treaty, economic possibilities of the polar regions, and scien­ tific and strategic importance of the polar regions.

Hanessian considers the Antarc­ tic Treaty, signed by 12 na­ tions on December 1, 1959, to be poten­ tially very important in world politics. Signed by the U.S.A., Argentina, Chile, France, Japan, New Zealand, Norway, Union of South Africa, U.S.R.L., the United Kingdom, and Australia, the treaty con­ tains the following principles for governing future national activi­ ties in Antarctica:

(1) Guaranteed non-militariza­ tion
(2) prohibition of all nu­ clear explosives
(3) the free­ ing of all national territorial claims and rights
(4) an un­ prece­ dented system of unilateral inspection of any part of Antarctica by observers of any signa­ tory nation
(5) the reservation of Antarctica for peaceful pur­ poses only, and (6) the continu­ ance of the International scien­ tific cooperation which charac­ terized the 1956-58 International Geophysical Year.

Chile and Argentina are the only two countries yet to ratify the treaty, and Hanessian states that this is mainly because of national pride. They are expected to ratify by the middle of this year.

The inspection clause of the treaty is of extreme importance and Hanessian indicates that the mere right of inspection will probably be enough to keep the treaty, with a minimum of au­ tonomous inspection.

In discussing the economic possibilities of the polar regions, Hanessian points to the Russian development of an important Arctic sea route connecting some of their Siberian rivers with European Russia. This com­ merce results in about one and a half million tons per year of shipping, taking in supplies and shipping out timber and min­ erals.

With sufficient capital, Canada could develop considerable re­ sources in Arctic regions, such as oil. Hanessian states that such operations could be com­ mercially profitable, but some framework in transportation and communica­tion would have to be laid first by the government.

In one of his recent AUFS reports, Hanessian mentioned

Here are the Hi-Lo's who will be featured at the Caltech Jazz Festival on Feb. 10.

John Slonowski, tenor saxophone; Joe Sherry, drums; John DeKlyen, was chosen for the position vacated by Bob Juola at the end of last term.

Jim Frosh, classman in Page, Lloyd, and other faculty members as well as discussed the question of the three new Houses.

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Jim Frosh, classman in Page, Lloyd, and other faculty members as well as discussed the question of the three new Houses.
1. **Editorial**
   - **Why Hold An Office**
     - There are many good reasons for running for ASCIT offices which do not involve written statements or verbal garbage. We would like to set down one or two for consideration prior to the forthcoming ASCIT general elections.
     - First is the fact (if it may as so seem) that serving well in an ASCIT office is performing a valuable service for the Caltech student body. The Board of Directors is an administrative body in general, and the many little things they try to do make life around Caltech more pleasant.
     - Secondly, there is the fact that working hard in a student office will give you many hours of enjoyment and a whole raft of interesting experiences that may or may not be valuable, on an occupational scale, but one of the few things in any other forms of campus activities. This, (and the ego-satisfying name of "BOD Member") is the only remuneration for your efforts.

2. **Letters**
   - **Great 'Fight' Stirs Populace**
     - "Saturday's spectacular proved to be a resounding moral victory for the BOD. It has demonstrated beyond a shadow of a doubt that the IHC is at least as C.S. as we are." — Bauer
     - Editor, California Tech:
       - Broken promise. That's all we get from these politicians.

3. **Great 'Fight' Stirs Populace**
   - Editor, California Tech:
     - We don't want promises. We don't want words; we want deeds!
     - Let the BOD and IHC cease their underhanded connivings and hold the promised water fight.

4. **Inflated**
   - Editor, California Tech:
     - I mean, where the... was the waterfight? I got up at 11:15 and had to get dressed and eat and fight! I bet we got a bunch of words, but they can't accomplish their goals. Deciding to run for office, then trying to think of something constructive, is the wrong approach.

5. **8,000 Management Opportunities!**
   - That's right. There will be 8,000 supervisory jobs filled from within the Western Electric Company by college graduates in just the next ten years! How come? Because there's the kind of upward movement at Western Electric that spells executive opportunity. Young men in engineering and other professional work can start at the top of the range and work their way up to positions of advancement—on their own within their technical field and within over-all management.
   - Western Electric's manager-top-to-executive positions will be aided by a number of special programs. The university placement center's yearning intonation. It is certainly unlike epics done by other poets. But Crill's short lyric verse is one thing to work in a job, and an office is maintaining the credit to the work of Mr. Crill. It must be taken no small amount of research to learn so much about a little-known poet as Crill. I was quite surprised to learn that Crill had spent some of his formative years in the line of husbandry, possibly explaining Crill's constant concern with the "fruits of the unsown soil" — from BOD's short lyric versus ("springing in the Woods of Sussex County").
   - Knowing that the soul of wit is often given credit for brevity, I'll make just a few more remarks. Your utterly delightful discussion, "Fledgling" was the best brief analysis of Crill's masterpiece I've ever chanced to come across in a school newspaper. You would be so kind as to forward a copy of the article for my files? My only criticism would be that you gave undue credit to the so-called "Lost Line School" (regarding the third and fourth lines of "Fledgling"). The dynamite phrase of the fourth line of the poem rises in no small part from the abrupt break in mood it makes with the third line's yearning intonation. A line between these two can hardly be expected to enhance the power of the first stanza. I am yet but to find a student who realizes the folly of the discredited "Lost Line School".

(Continued on page 3)
Taylor Eyes Best Part Of Chandler; 'Ronnie'

By LANCE TAYLOR

Even with its twin horrors of dreary coffee and water-thin malted milks, Caltech's new Greasy, alias the Harry Chandler Dining Hall, draws an enormous clientele. Directly responsible for a large share of the local desire for the Greasy is Miss Veronica Mary Gutierrez. Miss Gutierrez is affectionately known as "Ronnie."

Ronnie spends most of her time in CDM (1100 a.m. till 7:30 p.m.—five or six days a week) at the two most strategically located points on the food line—the cash register and the meat tray. In either of her two posts, displaying her cheerful devastating body for all to see, she dominates the whole Greasy.

Ronnie is quite adept at both her tasks, labelling out generous portions of Yankee pot roast when the management isn’t looking, and letting her selected friends (most of the campus) sneak past occasionally without paying for their ice cream bars or orange-juice sticks. (Really)

Ronnie learned to dance, she says, in her home—she is Spanish—and at Pasadena High School, where she graduated last June. She was the best pupil in her modern dance class, and this, plus her mother’s urgings, got her dancing jobs.

Unfortunately for the stage and for magazines, Ronnie decided last summer that she wanted a "real job." She got her present assignment the obvious way—saggy Greasy manager saw her and offered her all. She is now repaying her salary three times over.

Pasadena High School

Later, during the summer, Ronnie decided to get a "real job." She got her present assignment the obvious way—saggy Greasy manager saw her and offered her all. She is now repaying her salary three times over.

Noll Analyzes Crill . . .

(Continued from Page 1)

"A VOYAGE TO CHRAFT"

By James W. Mc. Crill

Twas on the way to Chraft sweet, life's Door

I found the golden key, that hung for wide the Door of

Life, to let me in but see,

And why to Chraft, I ask before,

Am I compelled to go? But yet now I know what sly

full Made this journey so!

While on the way to Chraft I fell. But not an earthly fall.

I tumbled into knowledge sweet, Yet not just part, but all.

For when I chanced to reach dear Chraft, I heard the Devil say,

"Close quick your eyes to all man's fault, And it will pass away."

This phrase, and naught but stony bash,

Did pass his lips towards me, But yet much more for but our World.

If only we could see.

For Satan's will is not for men To live in knowned state, But for to whisk away the truth And with lies we suffer.

Summary of Crill's results show that the poem is the hardest of all Crill's works to interpret. Critics of this era were unorthodox and insulting. But this era one that sought complicated phraseology constructed with the use of difficult, unorthodox words, such as used by Kip- Crill's use of monosyllables was not prone to seek real literary enjoyment in non-syntactical terms.

But in "Chraft" Crill's results show that the utilising vocabulary, utilising this innermost feelings.

In this poem Crill establishes a new poetic form, which he called "4-4 4-4 4-4 epical treble." You'll notice that Crill confined himself to writing alters lines of tamble tamener and tamble trimeter. In Crill's terminology, "epical treble" refers to the form and number of stanzas, while "4-4 4-4 4-4" refers to the numbers of lines in the poems devoted to each sentence, in order of occurrence. Of course, this poem has since matched Crill in effective use of the form.

The truly remarkable fact about the poem is that, in spite of the fact that only 11 times does Crill use words of more than one syllable, the poem is extremely difficult. In the first stanza, line four, we have only one word, but 16 letters, while a clear grasp of the meaning escapes us. The most common interpretation is that the lines tend to minimise the

562 PROGRAMS

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- Micro-Electronics
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- WTT Ployer Systems
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- Proton Range
- JAG-Scan General Purpose Computer
- Radar Close Loop Tracker
- Manned Range Ship
- Instrumentation
- Precision Tracer
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- Terminal Systems
- Radiation Sources, Detection, Handling, Encumbrance and Effects Analysis
- Thermal/Mechanical Guidance Systems
- Microwave Tube Tools
- Microwave Tubes
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- Recyclers
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502 PROGRAMS

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CAMPUS INTERVIEWS

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For interview appointment or informational literature contact your College Placement Director, or write "Hughes," College Placement Office, P.O. Box 3535, Los Angeles 36, California.
Hanessian Discusses Polar Politics

(Continued from page 1) another interesting idea relat­ ing to the Siberian regions. In October, 1939, a Soviet radio broad­ cast outlined an audacious plan to meet the Arctic ice and change the entire climate of the North­ ern Hemisphere. The scheme, suggested by a Soviet physicist, a member of the Soviet Academy of Sciences, said a momentary melting of the Arctic ice would involve the close coop­ eration of the U.S. and the Soviet Union to bring to Siberia a gigantic dam across the Hering Straits (the narrow neck of wa­ ter separating the eastern tip of Siberia from Alaska).

His plan, wrote Hanessian, calls for the installation of a ser­ ies of propeller pumps in the body of the dam, the use of enormous pumps to drive them and the pushing by the pumps of the warm Pacific current into the Atlantic via the Arctic Sea. This would gradually increase the temperature of the Arctic Sea, he said, and change the Arctic ice into a resultant climatic change for Siberia and North America, convert­ ing the now frozen areas into temperate and productive regions.

Hanessian’s schedule for the rest of his stay on campus fol­ lows:

Zounds! More On Patriotism

In response to the warm wel­ come given W. Cleen Rossen when he was at Tech last term, the YMCA is bringing another visiting Communist demonstration to campus. This one, a film called “Operation Abolition,” will be “the first time we can get it,” according to Y Secre­ tary Paul Purdum.

“Operation Abolition” was made by the House Un-Ameri­ can Activities Committee, and displays the star-studded roles of the Berlitz School in San Francisco last spring. Ac­ cording to the program observers, the film is slanted slightly toward the com­ munist philosophy.

In addition to the film, the Y plans to bring speakers to talk on high-brow sides of the issue pre­ sented.

Knoll’s Crill

(Continued from page 3) Importance of the “golden key.” But this interpretation loses sight of the fact that, according to Crill, this key was intended to go to some of the men of the “Door of Life.”

Another interpretation, sub­ mitted by a member of the mem­ bers of the “Lost Line” school, is that the “golden key” was a lead to difficult, in this very first part of the poem, to fit his form of alter­ native language learning best. Critics submitting to this belief conclude that Crill, having already written the word “set­tling to let me see,” added the “for but” to make the line contain three syllables, the meaning would

Not this: a student who shirks drawl never gets much sleep for this game, NoDoz keeps you clear-headed and accurate!

If you finish studying sometimes (or who doesn't) the word to remember is NoDoz. NoDoz alerts you with a safe and accurate amount of caffeine—the same refreshing stimulant found in coffee and tea. Yet non-habit-forming NoDoz is faster, harder, more reliable. Use NoDoz during your daily study and exams—and while driving, too—always keep NoDoz in proximity.

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EPC Suggests Revisions For Honor Section

BY LARRY GERSHWIN

The Student Educational Policy Committee has received a letter to the Faculty EPC next week with recommendations for an improvement to the sophomore honor section.

The basic recommendations are to create honor classes in individual subjects, do away with departmental finals as far as the honor class is concerned, provide opportunity and stimuli for individual research in the field or fields of each student's choice, make the classes smaller, and provide better teachers.

The reason for having the honor section is to enable very superior students to have the opportunity to work and learn on a higher plane than in ordinary classes, rather than provide the opportunity to others in the class, to be together. The EPC hopes adoption of its recommendations will create this situation.

The EPC's basic recommendation is to create individual honor classes in History 2, Math 2, and Physics 2, and possibly in Chemistry 6 and Math 5 if enough students are taking these. As it stands now, one honor section exists. The students take History, Math and Physics together. The members of the section are chosen on the basis of their freshman GPA, but membership is not compulsory. Instead of this system of choosing members the EPC recommends that each honor class be composed of people chosen on the basis of recommendations for that subject by the teachers of the subject, grades in the subject, and interest in it.

This method would enable those students who do well and are very interested in one subject but do not do as well in other subjects to be in the honor class of the field of their choice. Each honor class would be composed only of those students who are very capable and very interested in that particular subject.

With that as a basis a great deal could be done. Teachers could go much further into the subject than the book does, which is a bit harsh on Crill, especially since there is a third, extremely plausible interpretation. Those critics who truly understood Crill as a person suggest that line four meant to indicate Crill's modesty at being able, through his own inferiority, to see nothing more than knowledge as it applies to man.

Crill later states that, by peer ing through the Door of Life, he sees all knowledge applying to man. To say this, without first acknowledging the fact that he did not see all the answers to problems other than those concerned with man's existence, would have required an arrogance not characteristic to Crill's works.

The "Lost Line" school brings forth, perhaps, their most astounding contention concerning the end of "Crill." It is contended that the third stanza offers no conclusion, no finish to the thoughts in the poem. It is, therefore, concluded that the printer of "Parcels in the Dust" lost the last stanza sometime during the printing process. This contention, while compelling, seems somewhat sterile when compared to the possibility that Crill actually wanted the poem to seem unfinished. If we thoroughly digest the meaning of the poem, especially the last four lines of the second and third stanzas, it becomes obvious what the last stanza (if there was one) would have to say.

Since Crill was neither one to warn, to advise or to preach, it is very probable that, having completed the first three stanzas, he refused to go on, leaving the conclusion to the philosophers.

Bell System Scientists working with the National Aeronautics and Space Administration bounced the first phone call made on a man-made satellite, Echo I, in August 1960. The call traveled across country between Goldstone, California and Holmdel, New Jersey.

The team that bounced phone calls off ECHO I needs good technical and management talent.

Come in and find out how far you can go with the Bell System.

INTERVIEWS ON

FEBRUARY 8 AND 9

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Pacific Telephone Technical graduates for engineering and administrative positions in California.

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Sign up now, at your placement office.
Bauer Urges Constructive Criticism

Every year at this time we are opened to an upsurge of interest in the ASCIT organization. This interest is generally directed along two lines: what has been done during the past year, and how we can improve the next. Each of these lines of inquiry is valuable, and it is to be hoped that they are fully developed in the campaign period to come. It is equally important, however, that all discussion of this type be strictly developed along lines of rationality and fairness. In these respects, a very bad beginning has been made.

The most recent editorials in the California Tech, as well as some of the opinions expressed by supposed campus leaders, have been neither rational, in the sense that they were not based upon reasoned and informed argument, nor fair, in that they were not willing to correctly evaluate what has been accomplished by those presently holding student offices.

Unsupported name-calling is never more than petty, whether it is applied to the BOD, the California Tech, the president of House J or any other individual or group. After all the noise has cleared away, the fact still remains that almost never during the past year has a member of the Board of Directors been given a concrete suggestion for improving ASCIT, by the California Tech or by anyone else.

If anything need remedy, it is this. During the forthcoming campaign, every student who is sincerely interested in the student organization should be candidate know specifically in what way. In this way, and only in this manner, will campaigns be significantly improved.

B. Bauer

Watts Talk Covers Zen Buddhism

Alan Watts, one of the two best-informed Zen Buddhist men in this country, will speak next Tuesday night at the Pan­dena City College auditorium. His lecture begins at 8 p.m. and is open to all students. There is no admission charge.

Future speakers scheduled for the Tuesday evening forum at PCC include Margaret Mead, noted anthropologist, who will be coming to Caltech later in the spring on the YMCA Leaders of America Program. The PCC program schedule is posted in the YMCA Lounge.

Summer Travel Ideas Available

Are you interested in summer travel and home-stays in foreign countries? Bob Nason (Page House), an Experimenter to England last summer, has gathered much information for the use of others. This information includes the following programs: The Experiment in International Living; The Lide Fellowship; International YMCA-YWCA programs. Nason lives in 20c Page, or can be reached through the YMCA.

**Tech League Football Schedule Cancels Redlands, Whittier**

Caltech's request to drop Whit­tier and Redlands from its con­ference varsity and fresh foot­ball schedules was unanimous­ly approved at a faculty SCIAC meeting last week.

The request originated in the Caltech Athletic Council, a joint faculty, student, and alumni board. Dr. William Corcoran, professor of chemical engineer­ing and current chairman of the Athletic Council, explained that his group felt recent games against Whittier and Redlands showed "the competition has been more than that which can be reasonably met by Caltech football teams."

Corcoran noted that these overmatches conflicted with the philosophy of Caltech athletics: "Football and other intercol­legiate sports at Caltech are maintained primarily for the benefit of those students who wish to compete. Continuance of any sport is dependent upon the students' support."

"It is hoped that the revision in the football schedule will in­crease the interest of those mem­bers of the student body who wish to compete in Intercollegi­ate football."

Cal Western has also been dropped from next year's sched­ule.

The Athletic Council will re­view Caltech football after a three-year period under the ad­justed schedule. "If the student body shows a continuing inter­est in football," Corcoran as­sured, "I am sure that interest will receive support from Cal­tech faculty and administration."

Announcements

**STUDENT SHOP**

The Student Shop has again opened its ranks to new mem­bers. If you want to join, con­tact Ron Gluterman, Ruddock John Smith, Dabney, or Bill Burke in Fleming by Febru­ary 4.

**ASCIT CANDIDATES**

There will be an informa­tional meeting for prospective can­didates for 1964-65 ASCIT offices and other interested persons Monday, January 30, at 7:30 p.m. in the ASCIT Board Room.

**CAMP COUNSELORS**

Applications for the 1964 New Student Camp counselor positions will open January 2. Put a note in the B (for Bauer) box in Dabney.

**PULL UP A CHAIR!**

Pull up a chair and talk to the men from Convair (they'll be on campus soon). Learn about the many other chairs at our four major operating divisions waiting to be filled by young engineers and scientists.

We are the nation's most diversified aerospace company, producing intercontinental and tactical missiles, electronic systems, commercial jet aircraft, all-weather jet interceptors, and strategic bombers. More advanced programs encompass a wide range of technology . . . from nuclear propulsion to space communication and exploration.

And our continuing policy of purposeful diversification assures stability and challenge for years to come.

Yes, plan to pull up a chair and talk to the men from Convair . . . they'll welcome the opportunity to discuss our company with you. Whether you are an undergraduate, graduate, or doctoral candidate, chances are there's a chair for you at Convair.

**INTERVIEWS**

**CALTECH**

January 30-31

Sign Up in Placement Office

For further details and to arrange an appointment, consult your placement officer. If you miss us, a letter of inquiry will receive immediate attention if addressed to Mr. H. T. Brooks, Engineering Personnel Administrator, CONVAIR GENERAL OFFICES, San Diego 12, California.

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