IHC Recommends Sign-Up, No Rotation for One Year

BY JOHN TODOROFF

A detailed timetable to organize a successive-signup for membership in the three new Student Houses and a garbled recommendation that the rotation be discontinued for one year were approved by the Inter-House Committee.

The IHC has submitted the report, together with a minority opinion, to the faculty Student House Committee. The faculty group is expected to open consideration of the proposals at a meeting early next week and to announce approval or changes in the IHC's procedure before the end of this term.

Accept Committee Report

The IHC report is the verbatim recommendation of its new Student House Committee, a collection of two men from each House which has had forums, conducted a student body poll, and thought for six months about population and rotation questions. The IHC adopted the committee report, without discussion, by a vote of nine to three.

The three-man IHC minority report agrees with the upper-class population projection but says that the faculty delay final determination of the form of freshman rotation to be held next fall until after the new House sign-up period. It further suggested that the student body then (third term) vote on the specific question of discontinue rotation for next year. Next year's seven House IHC, which be in office third term, could consider the results of the vote and recommend it to the faculty for next year's rotation to the faculty.

Favor Rotation

The IHC preference poll showed that at least two-thirds of the students favor eventually establishing some form of freshman rotation among the seven Houses with 60 per cent of these voters favoring a system giving each fresh one day in each of the seven Houses.

No polls or forums discussed the pros and cons of rotation in next year's transition period. As a result, the minority report questions the IHC's haste in deciding that any form of a rotation during the formation of the three new Houses would be inadvisable.

Sign-Up Organized

The sign-up procedure will, if the faculty approves, be handled as follows:

There will be a sign-up list for each of the three new Houses posted in the office of the Master of Student Houses from 9 a.m., January 18 to 4 p.m., January 22. Each list will have a specified maximum number of openings for each class. In addition, there will be an other student list with a maximum set for the number who can leave each class of each old House.

A person desiring to change his House is asked to change his sign-off list completely. A student withdrawal completely would be allowed to do so at any time during the term.

Three Extra Slots

The sign-up list for each new House will have three extra spaces above the ideal maximum (obtained by taking the total on-campus population of a given class and dividing by seven). The seven Houses in proportion to capacity of the spaces. The sign-up list for each of the old Houses will have more space.

The ideal number leaving each house is: Harker—7; fresh, 4 sophomores, 3 juniors; Dabney—8; fresh, 2 sophomore, 3 juniors; Bakker—7; fresh, 2 sophomores, 3 juniors. The IHC preference poll indicated that the sign-up period will not have any serious deviation from these figures.

After the close of the sign-up period, students whose names fall below the ideal maximum in one of the new Houses, and above the ideal maximum in one of the old Houses, are asked to change in such a way as to reduce the irregularities, but no such person will be required to change.

Xmas Dance Scheduled For Saturday Eve

A toy valued at less than $3 is the admission price for the annual ASCET Christmas Dance, to be held Saturday in Dabney Hall Lounge, according to ASCET Social Chairman Ken Cass. The gifts should be simply wrapped, preferably by groups of 10 or more. They will be distributed to orphans and needy children in the Pasadena area.

Time for the dance will be between 8:30 and midnight. Dress should be like Inter-House—party or cocktail dresses for the girls and dark suits for their escorts.

Decorations will center around a big Christmas tree which will be decorated by the Institute, led by Don Fahnline.

Casey says there will probably be some sort of entertainment for the middle of the dance and that a band will play.

Debaters Cool Tourney

The team of Dave Jefferson and Kip Thorne for Caltech was the first-place trophy in senior men's debate at the Western Speech Association Tournament held last week at Stockton College. Caltech debate teams have previously taken awards in the junior division at this tournament, but the senior division has in the past been dominated by liberal arts colleges. This tournament is attended by students from all western states, and the 58 competing teams this year came from as far away as Colorado and Hawaii.

In addition, there were several places in junior men's impromptu speaking in the competition with 72 other students.

Jefferson and Thorne will next compete in an elimination contest to select four teams from the 58 competing teams this year come from as far away as Colorado and Hawaii.

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Jefferson and Thorne will next compete in an elimination contest to select four teams from the 58 competing teams this year come from as far away as Colorado and Hawaii.

Among the numbers included in the morning's program are Litbj's "X Christmas Fantasy," Stravinsky's "Dne Nacht," Anderson's "Sleep Ride," a Second Symphony for Band," by Erickson, "No. 11 of "Yesteryear," and the "Odes of March" claiming to have lost a contact- secretly hoping more seniors would show up.

But as everyone observed, the scene went something like this: "Stop! Stop! I lost my contacts and I need $25 and you pay will have to pay" "Eepid!" thought Bump, "that's more than the dance will cost!" Gary Turner saved the day, however, by checking in Jim's room and finding the contacts safely hidden in his medicine cabinet.

A car was supplied by Rick Green and Jim was hustled to T.F., where he was readied for the throwing-in ceremony. The first throw was somewhat of a failure ("They sort of puffed and heaved and then sort of dropped me"), but the second was a little better (see picture).

"That took over an hour," said Jim. "I think if I have only 50 or 60, I might have been able to handle them!"
Letters To The Editor

Editor, The California Tech

One week and a day ago, the IHC endorsed in toto the ASCIT committee’s recommendations on the new Student House. We concluded among these was a much-debated provision abolishing rotation for the coming year. One year of anything can’t be too disastrous (especially for a senior) and I shall temporarily refrain from commenting on the more questionable qualities of the report. At this time I’m more interested in reading (for our rotundity possession) the coolly logical method by which the decision was made.

The big meeting was held down at training table with the 10 IHC members, the ASCIT president, and the entire subcommittee on Student Houses present. Things began on a fairly convivial level, with many congratulations passing to the committee for the fine job they’d done.

At this point the trouble began. Someone (one suggested that we’d better prepare an effective method for disseminating all information prior to the coming vote. In retrospect this appears to have been the wrong thing to say. Vote? Appeal to the rabble! Expose the delicate logic of the committee’s report to the crude mind of the average voter? Better death or better yet, distribution.

One by one the committee members rose to reaffirm their faith in the student’s insufficiency (actual quote): "We’ve thought about this for six months now, while the average trull in the Houses will just react."

"A vote wouldn’t prove anything anyway since the people who don’t vote would have an active voice."

"The more we like the sound of it, most other schools require it has eliminated the No-PE-Before-Midterms philosophy. This is the old excuse for a program.

"Why?"

"That guys in Dalbey and Richetti just vote along House lines, anyway."

Then the ASCIT president spoke, revealing how ASCIT prefers to handle important decisions in committee, avoiding a referendum whenever possible. (Do I vaguely remember something about “Clear coordination between ASCIT and the student body?”)

An anonymous committee member provided the coup de grace: "You only want a vote because you think you’d win! There I stood, revealed as the charlatan 1 am — a man willing to stoop to majority vote just to gain his own ends.

William R. Bauer
Secretary, ASCIT

Secretary’s Report

One of the more worthwhile ideas put into effect by ASCIT this year concerns the Consolidated Charities Drive. In the past, this program has operated through contributions by members of the graduate and undergraduate student bodies, the money being collected for various organised charities which have been specified on a year-to-year basis.

The new idea concerns a change in philosophy: the drive becomes a student body project. The project would be something which would continue from year to year and in which the Cal-Tech student body, through an organisation here on campus, would have an active voice.

Examples of possible projects are the following: support of a localised foreign refugee program, such as in China or some other Far Eastern area; purchase of clothing or other supplies for distribution to the people of some needy part of the world; financing of a college education for students in desti-

tute regions who otherwise would not have any possibility of receiving this education.

These by no means exhaust the alternative, but they will serve to indicate the direction which the program is taking.

As adopted by the Board of Directors last Monday, the Fund Drive this year will be held from February 8-12. The money will be used this time to aid refugees in Hong Kong, but this in no way implies a restriction as to future projects. A Steering Committee has been set up, under the chairmanship of Bob Koh, to investigate all possibilities and, hopefully, to come up with an idea which will be supported by the students in general.

Most important, the project will be directed by us; and we will be able to take an active interest in the partial alleviation of a world problem of importance.

William R. Bauer
Secretary, ASCIT

The California Tech

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Positive Bias
Multiplex To Expand FM Stereo

BY PIERRE SUNDBORG

With stereo showing signs of taking over the long-play record field, as it has already conquered the tape industry, the time has come to appraise the future role of stereo in radio broadcasting. A start was made in stereo broadcasting in L.A. three years ago when KUSB and KMLA began FM-FM transmission. Somewhat later, KFAC and KNX instigated AM-FM stereo transmission, and are still using it. More recently, a few AM stations are cooperating on AM-AM stereo programming.

All of these transmission methods yield reasonable results, yet have some limitations. For example, in the AM-FM transmissions, the AM channel is considerably the poorer of view of the stations. Neither, either, produces by advertising. The rental of telephone lines for the problems of dividing the multiplex transmission, and is illustrated in the Crosby system.

It is apparent that the only transmitter, would be stereo multiplexing, and that the Crosby system. has the great advantage of being compatible with existing FM receivers. Anyone listening to a Crosby transmission on a non-stereo receiver would be hearing a standard monophonic transmission. Because of this compatibility, it is expected that the Crosby system will be accepted by the FCC as the standard system of broadcasting. Experimental Crosby broadcasts are being made in New York at this time.

There is no commercial multiplex transmission in the U.S. as yet, but that hasn't stopped the component manufacturers. There are already several Crosby systems on the market, and these are being sold to connect to any regular FM stations. The left channel is broadcast on one receiver. Methods of achieving this end are called stereo multiplexing, and that's what I want to talk about this week.

There are several systems proposed for FM stereo multiplexing. Of these, only two are likely to be important. The first of these is called the Halstead system, and is illustrated in Fig. 286. In this system, the left-hand channel is broadcast out, and the right channel is broadcast with no cut-out. This is entirely a monophonic channel, and a person listening to it would hear the total sound, although not in stereo.

The Crosby subsystem transmits a signal consisting of the difference between the left and right channels. In the receiver, the two carriers are combined in a rather complex matrix circuit which puts out the two separate audio signals. Fig. 286 shows a simplified diagram of the Crosby system.

The Crosby system has the advantage of being compatible with existing FM receivers. Anyone listening to a Crosby transmission on a non-stereo receiver would be hearing a standard monophonic transmission. Because of this compatibility, it is expected that the Crosby system will be accepted by the FCC as the standard system of broadcasting. Experimental Crosby broadcasts are being made in New York at this time.

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Fig. 286. Basic Arrangement of the Crosby System

rrier, and would be received by receivers tuned along with the main carrier. The stereo FM receiver would then separate the two carriers, removing the subcarrier modulation from the right-hand signal, and feed the two audio outputs into stereo preamps.

The principal advantage of the Halstead system is that it uses a rather large expenditure by the listener. The principal carrier channel transmits a signal which contains virtually a monophonic channel, and a person listening to it would hear the total sound, although not in stereo.

The Crosby subcarrier transmitter transmits a signal consisting of the difference between the left and right channels. In the receiver, the two carriers are combined in a rather complex matrix circuit which puts out the two separate audio signals. Fig. 286 shows a simplified diagram of the Crosby system.

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Fig. 286. Basic Arrangement of the Crosby System

Sir, if it hasn't got it there, it hasn't got it!

Old Dr. Sam has done it again—brought his dictionary up to date in terms of modern Winston usage. Winston (wines·ton), n. A cigarette with Filter-Blend on one end and a wise man on the other. Taste (tast), n. What decorations are about and Winston smokers enjoy. Filter-Blend (fler·blend), n. A happy marriage of art and science. Light, mild, and flavorful tobaccos are artfully selected, then scientifically processed for filter smoking.

There is nothing which has yet been contrived by man by which so much happiness is produced . . .

BY JOHN BERRY

I think I am more pleased by the following than by any new drink that I have tasted in the past six months.

THE CARUSO

. Part Dry Gin
. Part Dry Vermouth
. Part Creme de Menthe

1 part Dry Gin
1 part Dry Vermouth
1 part Creme de Menthe

JOSH WHITE

ASSOCIATIONS OF L. A. STATE COLLEGE Present a Folk Music Concert. Saturday, Dec. 5, 8:30 p.m. in the Gymnasium.

MARTHA SCHLAMME

Taste (tast), n. (e.g., Winston tastes good like a cigarette should). A statement of disputed grammar but unquestioned fact.

Filter-Blend (fler·blend), n. A happy marriage of art and science. Light, mild, and flavorful tobaccos are artfully selected, then scientifically processed for filter smoking.

There is nothing which has yet been contrived by man by which so much happiness is produced . . .
And now, before we introduce our first guest, would you please step right over here to our isolation booth, where we are fortunate enough to have isolated . . . please, step back there, we can't have any accidents . . . yes, folks, they said it couldn't be done; they said we would all get caught in the huge drifts, spewing forth as never . . . but there in front of your very eyes . . . in the isolation booth . . . to protect you and your loved ones (remember for only two cents a day) . . . is the one, the only . . . Studentus Caltechus . . . let's watch those flashbulbs, these booths are strong but I'd hate to be responsible . . . if he ever got out, those drifts would kill them. Now, folks, if you would be so kind as to focus your attention right on the end of this Krypton pointer, you will notice the bloodshot eyes, sagging abdomen . . . just keep your eyes on the end of the pointer, please . . . the shaking hands, long hair . . . limp lower lip . . . the subways . . . spinning . . . the world . . . you understand . . . the sense of isolation . . . keep back . . . pair of 'horns-Horns-BORNES bunched, unwashed, fetid fur on . . . destroy them all . . . there is a ruff, out of the mass of kinky, better hold . . . if you were to care about the shaking hands, long hair . . . , limp lower lip . . . , the end of the pointer, please . . . you will notice the . . . just, keep your eyes on as to focus your attention right here, right over here . . . here are a few of my activities during a recent day on the job. We now take you to a small conference room in the Imperial Palace, where Nicholai Huttonoff II is presiding. Nicholai Robertovitch, vat can be done about dis menace to ze world vill know even dogh Ilonova Florentzovna got you are forgetting that you are not yet the Tsar . . . yet, Madame, to create is the only thing . . . and the Imperial Palace will create a place where Caltech can be happy . . . the Tsar Nicholai Robertovitch II has spoken.

Just four years out of college...

He heads a team of 63 people

L. Dean Darbe graduated from Kansas State U. in 1955 with a B. S. degree in electrical engineering. Today he is Supervising Service Foreman for Southwestern Bell Telephone Company at Hutchinson, Kansas. Dean has five Foremen and 56 craftsmen reporting to him. He's got full responsibility—covering installation, maintenance, testing and repair—for 21,000 telephones and all the equipment that serves them.

"3:39 a.m. I meet with one of our Foremen at the plant garage to discuss a cable-pressurizing job. We're pulling all aerial cable in Hutchinson under air pressure to keep out moisture which causes cable failure and costly service interruptions." 

"5:30 a.m. My bus, District Plant Superintendent Randy Barron, and I go over plans for an addition to our dial central office. Several pieces of large and complex switching equipment will have to be rearranged to tie in with the new facilities."

"That's about it for one day. Tomorrow's schedule will be different. I'm doing interesting, challenging work all the time—and I'm given plenty of responsibility. That's what I like about my job." 

There are countless young men like Dean Darbe who are moving ahead in supervisory careers with the Bell Telephone Companies. You could be one of them. Talk it over with the Bell interviewer when he visits your campus—and read the Bell Telephone booklet on file in your Placement Office.

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Y's Asilomar Conference Set
Dec. 27-Jan. 1

Sign-up will continue this week for the Y-approved Asilomar Conference.

Asilomar is a joint YMCA-YWCA conference which is held every Christmas vacation at Asilomar on the Monterey Peninsula. The conference this year will last from December 27 until January 1.

Its purpose is to examine the problems facing the contemporary young man and woman: seminars under the direction of competent leadership, forums by men important in their fields, and informal conversation among students from other countries highlighted the conference.

Room and board for the conference period costs $13.50 up to $350-$500. The registration fee is $1.50 to $1.55.

Applications For Model UN Close Today

Applications for positions on Caltech's delegation to next spring's Model United Nations will close tonight.

Caltech, representing Israel, will send 12 men to the session, which will be held April 9 at the University of California in Berkeley.

Each delegate chosen will have to pay about $18 toward transportation and conference fees. The DOD has appropriated $715 to cover the rest of the expenses.

Anyone interested in attending should contact Cleve Moler, delegation chairman, in Ricketts before 8 tonight.

Plunk, Plunk! Piano Movers On Campus, Remove Pianos

Within the past two weeks, during day and at night, thieves have removed pianos from Blacker, Fleming and Dabney (presumably for black market distribution). Intensive investigation by Student House personnel has revealed no clues to date.

The presidents of the three affected houses laid down the following lines:

Eken Schulz, Blacker - "Considering the condition of our piano, we would rather let it go and get a new one. If the thieves have unacceptably been trying to sell our piano, we'll take it off their hands for $5."

Lou Toch, Fleming - "We are disturbed about this because our piano is not insured and is probably worth $200-$500. This appears to be the work of students from some nearby college. Incidentally, our piano can be identified by a distinctive liquid stain on the right side of the top and a cigar stain on one of the keys, etc."

Doug Calane, Fleming - "This appears to be a prank, and we suspect our prodigal piano will eventually return, just like the silverware. We want it back, any way!"

And finally, the latest development is an extortion note received by Ricketts, which said, in abridgement, "Leave $10 in such and such a book in the Physics Library and we won't take your piano." The following note was placed in the specified place: "We guarantee that if you don't take our piano we will not shave you and leave you nude on the corner of Raymond and Arroyo."

Vice Squad and FBI!

Applications For Model UN Close Today

Applications for positions on Caltech's delegation to next spring's Model United Nations will close tonight.

Caltech, representing Israel, will send 12 men to the session, which will be held April 9 at the University of California in Berkeley.

Each delegate chosen will have to pay about $18 toward transportation and conference fees. The DOD has appropriated $715 to cover the rest of the expenses.

Anyone interested in attending should contact Cleve Moler, delegation chairman, in Ricketts before 8 tonight.

Jones Elected To College Board

Caltech Dean of Admissions L. Winchester Jones was elected to the Board of Directors of the College Entrance Examination Board recently. He previously served as president of the Western Division of the Board.

Jones will hold his office until 1962. He meets every three months with other Board of Directors members to decide the policies of the Board.

There's an Important Future Ahead for the Men Who Wear These Wings

The Air Force pilot or navigator is a man of many talents. He is, first of all, a master of the skies—and no finer exists. In addition, he has a firm background in astronavigation, electronics, engineering and allied fields. Then, of course, he must show outstanding qualities of leadership, initiative and self-reliance. In short, he is a man particularly prepared for an important future in the new Age of Space. Find out today if you can qualify as an Air Force pilot or navigator. Paste the attached coupon on a postal card and mail it now.

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Please Note: This is not a contest. No purchase necessary. Send complete information. Please allow six weeks for delivery of kit.
The California Tech

Basketball Year Begins; Good Season Predicted

On the second half kickoff, Haskell, picking up his initial bobble on the Beaver four-yard stripe, cut for the sideline and

(Continued on page 7)

The Caltech basketball team launches the new season this afternoon by playing host to Upland College. The game is scheduled to begin at 4:15 in the gym.

Upland is the third team that has been scheduled to be the Beavers’ initial foe, as both San Fernando State College and Southern California College recently canceled games scheduled for this week.

Hope for a Beaver victory are quite strong, especially if hotshot Fred Newman can find the range, and if the Beaver fast break works as expected. Upland is not considered to be too strong this year as they recently lost quite convincingly to La Verne.

Saturday night the Beavers journey to Riverside, where they will engage the Riverside branch of the University of California. The game is scheduled to begin at 8 p.m. The Beavers should emerge victorious, as UCR lost most of its squad from last year through graduation.

This year’s version of Caltech basketball should be the best since the SCIAC conference champs of six seasons ago. Although two first stringers from last year’s squad were lost by graduation, including all-conference forward John Stene, the addition of former all-conference guard Fred Newman, who didn’t play last year, and several men from last year’s strong freshman team, should more than make up the difference.

Fall Banquet
Slates Coker On East Africa

Monday evening, December 7, at 6:15 p.m., Caltech will hold its annual Fall Athletic Awards Banquet at Brookside Park.

Tickets for the traditional steak dinner can be purchased from Joe Buehler in Blacker, Larry Long in Dobney, Carl Gottschall in Fleming and Bob Juola in Ricketts. As usual team members can buy tickets for $1.25, while others will pay $3.25.

The main speaker this year will be Chuck Coker—Occidental’s football and track coach. This summer Mr. Coker received an American Specialist Grant through the State Department to go to East Africa and help coach the native athletes in preparation for the 1960 Olympics as well as spread United States good will and understanding through athletics. The talk will be accompanied by colored slides and promises to be enlightening as well as entertaining.

All-conference ratings will be presented to water poloist Dave Tucker and Rob Rudy, and the winner of the annual Prophy in football will be announced.

Football Team Grabs Homecoming Victory

Caltech successfully closed its football campaign by whipping favored Claremont 12-0, in the annual Homecoming game played in the Rose Bowl.

A spectacular 96-yard scoring sprint by flashy halfback Vince Haskell highlighted the determined Beaver offense which staved off two late CVM threats to take the narrow victory.

The sharp-passing visitors assumed a 6-0 lead at intermission but Coach Bert La Brocherie’s Beavers grabbed two touchdowns on Haskell’s dash and a Mel Holland-John Arndt aerial, then led the game with a successful pass for a two-point play.

This victory extended the squad’s copping a near-insurmountable lead.

Success in the meet depends on the ability of the squad to display the depth it has demonstrated throughout the season. Although the Beavers probably will not finish a man either first or second, they plan to do just that, taking the first 10 places, with Rick Tuft and Bob Juola in the first five, thus pulling up to an insurmountable lead.

The winner is determined by adding up the placings of the first five men to finish from each school, the winner being the school with the lowest point total.

The California Tech

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Thursday, December 3, 1959

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Polioists Drown Occidental; Ruby, Tucker All-Conference

Climbing a comeback season, the Caltech water polo team edged heavily favored Occidental 43-3 last week to finish the season with a 4-4 conference mark, good for third place.

The win came from behind—win over Occi was the first time in six years that the Beavers beat the Tige. Occidental were Bob Ruby and Dave Tucker, who easily enough were named on the AllSCIAC Conference second team.

Tucker, always brilliant on defense and probably the only guard in the league that was a scoring threat, closed out his collegiate career with his third all-conference mention. Junior center forward Ruby, a deadly shooter and top team scorer, won his first all-league mention. On a short end of a 3:30 tailing at half-time, the Beavers went on a scoring binge to deadlock the game at 38 at the close of third quarter.

Ruby started the scoring with a fast Brock shot from in from in front of the goal. Roger Bland netted the second and guard Tom Tisch scored the tying goal. Tisch's shot came on a scoop from a sharp angle that whipped high into the left corner of the goal.

Midway in the fourth quarter, Ruby tallied the decisive point on a penalty shot. Fooled within the four-yard line, Ruby blasted a high shot in the extreme left corner of the net. Defense actually proved to be

Football

(Continued From Page 6)

flew 96 yards for the longest Beaver score of the season. The wide placement attempt knotted the score at 66.

Holland, closing out his career with a brilliant game, intercepted a Doty heave and the Beavers were off to their second six-pointer. Arndt grabbed a three-yard bootleg pass from Holland for the score and left end Hans Hartung added the decisive points with a good catch of another Holland pass.

CHM and Caltech trod wasteland scoring chances in the last quarter. The Beavers marched inside the Stag five-yard marker early in the final stanza but were thrown back by the Beaver visitation line. A 96-yard scoring march put the Claremont squad within reach of a deadlock but Gotschall and Carl Baum stopped the conversion attempt to save the game.

With six minutes to go, another Beaver fumble set up another Stag march which ended on the Caltech 15.

Holland, Arndt, Gotschall

Standouts in a great team effort were quarterback Holland, soph end Arndt and team captain Gotschall. Graduating seniors who won their final collegiate games were Lee Hoad, Jerry Siegel, Larry Long, Hartung, Art Radin, John Cooper, Gotschall and Holland.

Seven sophomore starters in the CHM game, plus several standouts from the frosh squad, give hope of improved play next season.

Adding flavor and beauty to the Homecoming win was Pomona High senior Sue Tingen, who was crowned Homecoming Queen at halftime by senior class prexy Jim Lorenczen. Members of the court were loveliness Helen Goss, Natalie Johnson, Georgia Jones and Judy Rockley.

Soccermens Travel North, Meet NCAA Champ USF

Conference hopes were dashed for the Caltech soccer team as Redlands and Pomona both took narrow victories last week to set the Beaver loop slate at 2-4-1. UCAA closes out the season Sunday in a final league game.

Redlands started the downward spiral with a night-to-win win in the final round. Rick Cumberbatch, consistent scoring threat for the Beavers, scored a pair of goals to make the doubles Beavers failed to tally in the final half.

After beating Pomona the first time they played Caltech, hampered by vacation schedules, suffered a stinging 2-1 loss last Wednesday. The Sheepmen scored in the first half and had again in the third quarter. Only a goal by George Behrman in the final five minutes averted a shutout.

(The Beaver cross-country squad is the season's other undefeated team.)

Over Thanksgiving vacation the Beavers flew to San Francisco to take on University of San Francisco and California, generally conceded to be ranked one and two in western collegiate soccer circles and emerged with two defeats and plenty of experience.

Playing both games against top-flight competition Saturday, the Beavers were definitely out-classed and outmaneuved by the northern California squads. USF, finishing the season at 5-0, demonstrated why they were picked western NCAA champs with a convincing 7-1 whipping.

California's Golden Bears, losers to USF by a 2-0 score in their meeting, dealt a decisive 5-0 defeat to the visiting Beavers. Unlike USF, Cal did not substitute freely.

Dr. Robert Sharpe was named on the AllSCIAC Conference second team.

Johnson, who graduated with honors in engineering, was the lightest man on the football squad at 134 pounds, was ASCPT president and a member of Tau Beta Pi. He is president of Uplift Scaffolds Company, which he founded in 1966. He also invented, and has patented, the original portable aluminum alloy scaffold, and has designed many aluminum radio towers.

Announcing a comprehensive Postgraduate Education Program for engineers, scientists and mathematicians

Ever since the founding of the company some forty years ago, IBM has recognized education as an integral and continuing part of a professional person's life. Through formal educational programs within the company, and through affiliations with universities, it has long been possible for IBM employees to earn scholastic credits. Now a comprehensive Postgraduate Education Program, surpassing any previous program, has been initiated at IBM for plant and laboratory personnel.

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These studies offer continued educational opportunities throughout a career at IBM. They are not generally degree-oriented. Given at or near IBM facilities, they are designed to help retain mastery over basic engineering, science, and mathematical subjects and to gain knowledge in advanced fields such as numerical theory, finite mathematics, magnetism, solid state physics, and network analyses.

For a descriptive folder about the new IBM Postgraduate Education Program, write to:

Manager of Engineering Education, DEPT. 843, IBM CORPORATION, 550 MADISON AVENUE, NEW YORK 22, N. Y.
Ten Selected For Tau Beta Pi Honor Fraternity

Three juniors and seven seniors have been selected to join Caltech's chapter of Tau Beta Pi, the national engineering and science honorary fraternity.

Tom Bowman, Dave Butterfield, Robert Koh, Jarold Meyer, Mel Neville, Pete Honry and Frank Weber are the seniors; Bill Bauer, Larry Brown and Cleve Moler are the juniors.

The seniors were picked from the top-one-fifth of their class, the juniors from the top one-eighth. In addition to scholarship, extracurricular activities and general character were used as bases for selection.

Dabney Lounge Features Art By de Swart

BY GRAY YOUNG

"Search and Research," the exhibit in Dabney Lounge, has left many people confused and puzzled. The structural plastic forms were designed and made by Jan de Swart, a Holland-born inventor and designer. In a modest shop in Eagle Rock he experiments with new designs and techniques, "Each material has its natural characteristics," he says, "but it also has hidden characteristics which I try to find." His primary objective is to find new ways of using materials.

He may start with a simple everyday object or with wood or plastic and try to put it together in as many different ways as possible. The same form may be used to make columns and fences, mosaics and walls. Plastic sheets may be stretched and pressed into an interlocking 3-dimensional grid, giving a light weight sheet of amazing strength.

Many of de Swart's designs in plastic are made to look through rather than to be looked at, and some of his plastic lenses have been used by Walt Disney and C.P.A. for film cartoons.

Fond of working with wood, he often turns to this medium for relaxation. His intricately cut wood studies have an ethereal quality which makes them appealing to many eyes.

"Man has an instinctive knowledge that there is an answer," he says, "which drives him constant research. It is this searching for new and different concepts that has made Jan de Swart refreshingly different.

THEME商城

Wednesday, December 3, 1959

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Here are some straight answers to questions you may have about Aeronutronic:

Who is Aeronutronic?

AERONUTRONIC was established in 1956 by Ford Motor Company to engage in research, development and manufacture of advanced electronics and products for military and commercial purposes.

What are its major areas of research?

Aeronutronic consists of five main technical groups: Advanced Research Operations; Space Technology Operations; Tactical Weapon Systems Operations; Computer Operations; and Range Systems Operations.

What business does Aeronutronic have?

More than 40 government and commercial programs are currently in work—programs like SHILLELAGH, the Army's new surface-to-surface missile; TURBO, for the Federal Aviation Agency; and Range Planning Study for NASA's Project Mercury.

Where kind of backing does Aeronutronic have?

Ford Motor Company provides the broad facilities and financial support for carrying out complete research, development and manufacturing operations. In addition to the usual production support when needed.

What kind of facilities do they have?

Ultra-modern $22 million Engineering and Research Center is under construction and almost entirely occupied. When complete in 1960, the new complex will have over eighty major structures totalling over one million square feet.

For further information, send for free booklet to the Aeronutronic Representative about your interests and specialties when he's here on campus. Register now with your total engineering placement bureau for an interview.

Who is the Aeronutronic Representative?

For your campus Aeronutronic Representative, send for free booklet to the Aeronutronic Representative about your interests and specialties when he's here on campus. Register now with your total engineering placement bureau for an interview.

What kind of assignments can I expect?

Research, design, engineering and development work. Opportunities open to exceptional graduates in fields of space sciences, tactical weapon systems, missile range systems, advanced electronics and communications, data processing and computer technology. (Specific openings are described in new career opportunities booklet offered below.)

Do they have competitive leadership?

Aeronutronic is a business-oriented organization, headed up by Ford Motor Company Vice-President, Gerald J. Lynch, and other business scientific and production managers experienced in the application of sound management principles.

Where does Aeronutronic stand in R & D work?

By the end of June, 1958, as an example, Aeronutronic moved from ninth to third place among prime sources for government R & D contracts.

Where is Aeronutronic located?

Aeronutronic's new facility is located on a 200-acre site overlooking the harbor and Pacific Ocean at Newport Beach in Southern California. The area is a true ideal area for living, working and raising a family.

What other benefits can I expect?

Ford Motor Company employee benefits are considered the finest in the industry—Ford savings programs, exceptional insurance and retirement plans, paid vacations and sick leave, regular salary increases, and many other benefits that are equal to or better than the industry standards.

Talk with the Aeronutronic representative about your interests and specialties when he's at your campus. For more information, send for free booklet to the Aeronutronic Representative about your interests and specialties when he's here on campus. Register now with your total engineering placement bureau for an interview.

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