

Revision Furor Stirs BOD

★ ★ ★ "Giants" Swing At Weekend Jazz Concert

Shorty Rogers Leads Coast Jazz In Friday Session

Outstanding West Coast Jazz will rock through Culbertson Hall tomorrow night as Shorty Rogers and his "Giants" star at the ASCIT jazz concert. The show starts at 8:30 and tickets are \$1 each, available from members of the rally commission (Kent Frewing, Blacker; Dick Johnson, Dabney; Dave Spencer, Fleming; and Brent Banta, Ricketts).

Immediately following the performance, a record-dance for Techman and their dates will fill the Ricketts and Fleming lounges.

Arranger, Composer

Rogers has served as arranger, composer, and trumpet player with the Stan Kenton Orchestra and has arranged and composed jazz sequences for several motion pictures, including "The Man with the Golden Arm" and "The Wild One." Shorty also records the sound track for animated television commercials and writes the themes for the UPA "Mr. Magoo" cartoons.

Scientists Described In Book For Youth

Caltech researchers are singled out as shining examples of what it's like to be scientists in a soon-to-be-published book for youngsters, tentatively titled "Science Today," written by the wife of a Caltech dean.

Jane Warner Watson, wife of Ernest C. Watson, Dean of the Faculty, is the author of the book. Judging both from its quality and from current public interest in science, it promises to be a success.

If so, it will not be the first one for Mrs. Watson, for she has for many years been a prolific author of children's books. Her accomplishments include an entire shelf of "Little Golden Books" and many special books similar to the current one, 120 in all.

Ahead of Competition

She is a jump ahead of the competition on this book, having started on it well before the recent Russian science publicity. Also, she has written it using an unusual approach. "My idea," she explains, "is to show what scientists are doing and how far they have gone, but also to leave some questions unanswered. This way a potential scientist can see that there are still important things left for him to do."

Each chapter of the book discusses some particular kind of research, for example, cosmic rays, and illustrates it with photos and information related to a specific project at Tech, for example, the cosmic ray lab. Individual men are not named, however, so that the readers can identify themselves personally with what they are reading.

Fields covered are geology, astronomy, mathematics, phys-

CASEY, KIEFFER VIE

Ken Casey and Hugh Kieffer jointly defeated Dohn Schildkraut in the contest for class president in the freshman elections of January 23. They competed in a special run-off election today. Other freshman officers chosen at last week's election are:

Stan Sajdera, named vice-president over Gary Ihler; Don Forrest re-chosen as class treasurer; Dick Jones, picked class secretary, and Tom Tisch who was returned as athletic manager over Cleve Moler and John Russ. Jones and Forrest both ran unopposed.

Sid Leibovich and Bill Bauer were elected as freshman representatives to the Board of Control.

This newly elected slate, plus the president selected today, will replace the officers named at the New Student Camp who served previously to the election: President, Sid Leibovich; Vics-President, Ken Casey; Secretary, Bruce Ulrich; Treasurer, Don Forrest; Athletic Manager, Tom Tisch, and BOC Representatives Bill Bauer and Pete Lippman.

Scripps-Tech Conference Will Discuss "Man's Purpose"

Final arrangements are being made for the forthcoming Scripps-Caltech Student-Faculty Conference. Thirty-five Techmen and an equal number of women from Scripps will join 25 faculty members from the two schools at the three-day confab, February 14-16.

The conference, which is co-sponsored by the Caltech Y and the Scripps Religious Council, will be held at a campground in the Chino Hills between Fullerton and Pomona.

"Man's purpose in life" is the theme for the weekend meeting. The topic will be discussed from aesthetic, scientific and philosophical viewpoints.

Discussion will be stimulated by talks from four Tech and Associated College professors. Dr. Matt Sands will take up "The Scientific View" and Dr. Hallett Smith will consider "The Humanistic View." "The Religious View" will be handled by Dr. Gordon Kaufman from Pomona. Scripps' Dr. Theodore Greene, whom Techmen will remember from his visit here last term, will speak on "The Aesthetic View." After each talk the conference will break up into small discussion groups.

Recreation and social activity, ranging from volleyball to square dancing, will be included on the agenda. The conference will begin on Friday afternoon, February 14 and continue through Sunday afternoon.

(Continued on page 6)



Mrs. Jane Watson

ics, biology and chemistry, with four chapters devoted to each one.

Good Reading

The book was written so that an intelligent junior high school student can follow it. However, the author points out that it would also make good reading for public school science teachers, many of whom have little understanding of current research in their own fields.

The book will have 220 color-illustrated pages and will be published this summer by Simon and Schuster.

Expert

Randall is an expert on economics; he was formerly the president of Inland Steel, and still serves as chairman of the board. Before he became special adviser to the president, he was chairman of the Committee on Foreign Commerce Policy. He has also been honored as Man of the Year by the National Association of Manufacturers, and was named Business Statesman

Sponsors Withhold Petition; Committee Action Promised

Major changes in the ASCIT By-Laws seemed imminent yesterday as a special Board of Directors committee began a full-scale effort to prepare an amendment by Monday night.

The developments followed a week of hectic activity. Sunday night the Board met in special meeting to adjust the provisions of the Kirk-Godfrey proposal, which changes the duties and titles of the various officers. It was suggested that more radical changes were needed to make the corporation organization effective.

After some discussion, the Board put to a straw vote the question of whether definite changes were needed to provide more consideration of basic policies. The idea was approved in principle, and discussion began of ways and means to make the changes.

At this point it was argued that there was little time to prepare an amendment before election, so after heated debate the Board voted to consider only "minimal" changes.

Eleven-Point Program

After further discussion subsequent to the meeting, Bob Walsh prepared an eleven-point program for major ASCIT revision, and copies were distributed at Monday night's meeting of the Board. The Board rescinded its previous action in order to consider this proposal but tabled the matter after a brief discussion. Treasurer Clarke Rees voted against tabling; Secretary Mike Godfrey abstained.

Vice-President Gene Cordes then proposed an alternate plan, which was also tabled. Cordes, Godfrey and Rees abstained.

"Minimal" Changes

Second Rep Brad Efron then read to the Board the text of the amendment approved by the committee for "minimal" changes, and the Board approved it by a 5-3 vote. Cordes, Godfrey, and Rees cast "no" votes.

The two broader plans were then removed from the table, and the entire subject of major ASCIT revision was referred to a special committee composed of President Dick Kirk, Efron, Rees, and an unnamed former Board member.

Several supporters of the major changes were incensed with

the action of the Board. They expressed annoyance that the Board had refused to even attempt to prepare a proposal.

Tuesday afternoon a group led by Walsh, Dave Leeson, and Ford Holtzman converted the eleven-point program into a seven-page amendment, including a statement of purpose. (Excerpts from this statement are on page two.) By midnight ten prominent student leaders had agreed to sponsor the proposal, and preparations were completed to pass petitions.

Committee Meets

Wednesday noon the sponsors brought the proposal to the Interhouse Committee in an effort to gain constructive criticism and support. After the meeting Kirk appointed Leeson as the fourth member of the special ASCIT committee, and called its first meeting for noon today. He stated that the committee will endeavor to prepare a satisfactory amendment in time for publication in the next issue of the California Tech.

Sickening . . .

Caltech's hoopsters fought highly-favored Los Angeles State into an overtime Tuesday, only to lose 55-52 after an oversight by the officials.

In the final minute Dick Van Kirk stole the ball and fell on his arm, knocking his elbow out of joint. The officials did not stop action until 20 seconds had elapsed, and L. A. State had returned across the court and scored and clinched the game.

Randall Inaugurates YMCA Program

Clarence B. Randall, special adviser to President Eisenhower on foreign economic policy, will be the first visitor to Caltech this term in the YMCA's Leaders of America program. He will be on campus February 10 and 11.

of the Year by the National Sales Executive Association.

Randall will begin his visit a week from Monday with a talk to Professor Gilbert's Econ 100 class. At noon, he will be in Fleming House for lunch and a discussion in the lounge afterwards.

Monday afternoon, Mr. Randall will talk to a group of graduate students in the Y Grad Sack Lunch Club. He will be in Blacker for dinner, and that evening will meet with the ASCIT Board and the Y officers.

Tuesday, Professor Sweezy's economics class will hear Randall at 9, and he will eat lunch in Dabney. From 3 to 5 p.m., he will hold office hours, which are

open to anyone who wishes to talk with him personally.

After dinner in Ricketts, Randall will give the major address of his visit, at 7:30 in Dabney Hall Lounge. This talk is open to the general public. He will conclude his stay by visiting with the faculty at an open house.

Y-Sponsored

Randall's visit is sponsored by the Y, and is being planned by a committee including Andy Perga, Mike Godfrey, Don Stern, Bill Bauer, and Nelson Byrne. Three more outstanding leaders, Reverend Martin Luther King, Victor Reuther, and Sir Sarvepalli Radhakrishnan, will visit Tech before the end of the year.

Secretary's Report

FROSH CLASS ELECTIONS

The Board approved the results of the Freshmen Class Elections as submitted by Reed Saunders. The run-off election for president will be held on Thursday, January 30. Vote was 8-0-0.

CHEER LEADERS

Clarke Rees stated that the Head Cheer Leader had submitted a bill for approximately \$60.00 covering expenses for first term and the beginning of second term. Owings stated that the bill appeared to be reasonable.

ATHLETIC MANAGERS

The following students were approved as Athletic Managers: Allen M. Ashley, Al Funada, John R. Hribar, Kirk A. Polson, Herbert Rice, Jim Somberg.

ASCIT CHARITIES DRIVE

The ASCIT Charities Drive will be held March 3 through 7. The Charities to be represented this year are the Pasadena Community Chest, the World University Service and Muscular Dystrophy. These charities were approved by the Board; vote 7-0-1. The goal of the drive this year will be \$3,500 and there will be competition among the Houses.

PUBLICATIONS COMMITTEE

Bill McClure reported on the last meeting of the Publications Committee. He stated that the Big T will almost certainly be out on time this year, and it was approximately within its budget. Totem will come out sometime this term or at the latest early in third term. The editors felt that rather than produce a magazine on time they would stress the quality of writing.

PROPOSAL TO AMEND ASCIT BY-LAWS

The Board met informally on Sunday, January 26 to discuss proposed changes in the ASCIT By-Laws. After considerable discussion it was generally agreed that some structure should be provided so that a group of students could hold official ASCIT positions that would allow them to devote their time almost exclusively to more general and long-range problems and programs which concern the student body. It was felt, however, that time was too short to complete a formal proposal along these lines before the coming elections. The meeting was called officially to order and the following motion was passed: the Board of Directors will make certain minimal changes in the present structure of the ASCIT in order to increase its efficiency. The Board also recommended that this present Board be retained as a committee to submit another proposal at the end of this school year. The vote was 5-3 (Godfrey, Rees and Cordes). The three Board members who were opposed felt that the Board should consider more completely the possibility of making a larger and more worthwhile change.

When the discussion of proposed changes was brought up at the meeting Monday night a proposal was submitted by a group of students for the Board's consideration. For this reason question of more complete changes was opened by the Board's rescinding its motion of the previous evening which limited the changes that would be made. The vote on rescinding the previous motion was 6-2 (Owings and McClure).

Bob Walsh presented a proposal from the group of students. The purpose of this proposal would be to provide for a small group of students which would be able to look at long-range problems. There would be two main groups within the ASCIT organization. One would be a Board of Directors and the other would be an Executive Committee. The Executive Committee would handle everyday details of the ASCIT organization, while the Board of Directors would make appointments and oversee the general operations of ASCIT. Iorillo and Cordes felt that this plan would be too cumbersome to operate efficiently. Owings did not approve of the possible conflict between the two Boards. Kleiderer stated that the people responsible for short-range details should have control over such matters as the budget.

It was suggested by Godfrey that people who have more understanding of the overall effect of ASCIT programs should control the expenses in the separate general areas. It was moved that the discussion of this proposal be tabled. The vote was 6-1 (Rees)-1 (Godfrey).

At this time Cordes presented a counterproposal. This proposal would allow the Board of Directors as it is presently organized to consider more long-range problems by the establishment of elected offices under the Board of Directors which would be responsible for such detailed work as Homecoming, Lost Weekend, etc. The offices of Publicity Manager, Athletic Manager, Rally Commissioner, and Second Representative would be dropped from the present Board and would be incorporated into the sub-structure. Carmichael stated that this proposal would not, in fact, create a group that could concern itself with thought-type problems. It was moved that the discussion of this proposal be tabled. The vote was 5-0-3 (Cordes, Rees, and Godfrey).

It was moved that we consider only minimal changes in the present structure. Vote was 7-0-1 (Godfrey).

A proposal which was the result of the meeting on Sunday night was read by Efron. Various details of this proposal which will in fact only change some details of the Board's present structure were discussed. A motion to table this discussion was defeated. Vote was 3 (Cordes, Rees, and Godfrey)-5. It was moved that the Board accept this proposal as corrected. Vote was 5-3 (Cordes, Rees, and Godfrey). The full text of this proposal will be published in the California Tech and be publicized in the Houses. Voting on this proposal will take place Feb. 6. It was moved that a further amendment which would allow the Board to appoint the Business Manager of the Big T, the Editor of the Big T, and Business Manager of the California Tech be approved. The motion was passed 8-0-0. It was moved that a proposal be made which would state that the ASCIT Board will appoint the Head Cheer Leader and approve recommendations for the other Cheer Leaders. This motion was passed 5-0-3 (Rees, Owings, and Pitzer). These proposals will also be submitted to a vote on Feb. 6.

Efron moved that an ASCIT committee be established to develop a more complete proposal to be presented by the end of this school year. The members of this committee would be three members of this year's Board and one of last year's Board. Kirk would be responsible for picking the specific members of the committee. This motion was passed 5-0-3 (Iorillo, Owings, and Godfrey).

Michael Godfrey
ASCIT Secretary

Statement

The following statement accompanies a petition to amend the ASCIT By-Laws which a group of interested students has recently prepared. (See story, page one.)

"We are of the opinion that a fundamental reorganization of the ASCIT corporation is desirable at this time for the following reasons:

1. In the present organization the members of the BOD are too encumbered with duties as officers of the corporation to find the necessary time to determine the policies of the corporation with the proper decision and imagination.

2. The Board members under the present system tend to be men who are in their first year in corporation government, and thus are not sufficiently experienced to handle the problems of a policy nature.

3. The men who are experienced in the operation of the corporation are generally loath to run for reelection for the reason that the BOD does not deal in policies; these men, who could be the most valuable, are wasted under the present system.

4. The BOD positions, by their very nature, attract men more interested in doing a specific day-to-day job of service, not in determining policies in the best interests of the corporation.

5. The fact that the BOD is neither consistent nor sophisticated in its policy determinations, if any, has been the cause of the general disrespect shown the corporation government by both students and faculty.

6. The corporation administration would be both more effective and more consistent with the best interests of the students if there were estab-

(Continued on page 6)

California Tech

Editor — Bob Walsh

Entered as second-class matter November 22, 1947, at the post office in Pasadena, California, under the act of March 3, 1879.

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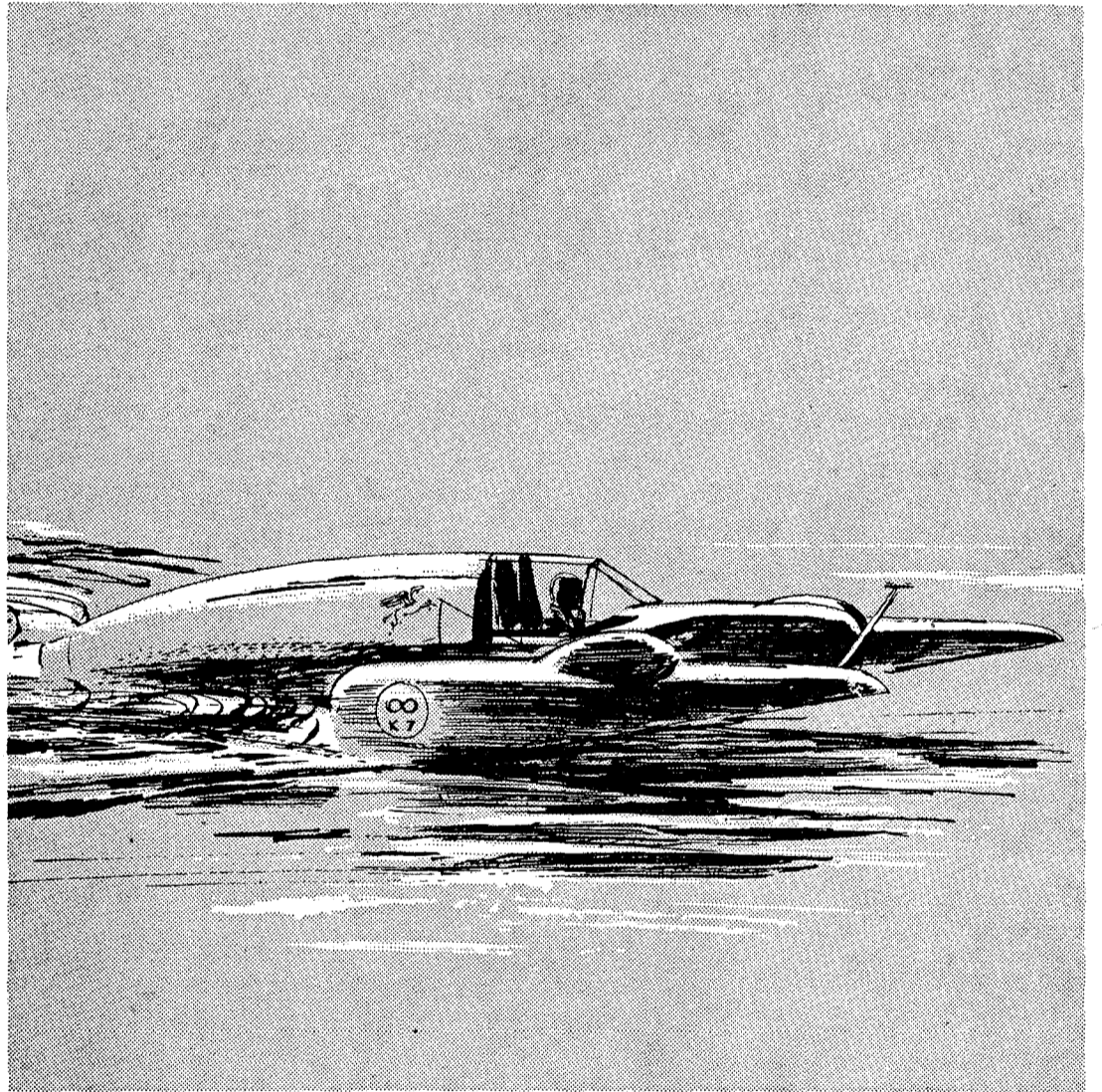
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Opinion

The Bullpen

by Ford Holtzman

In past years ASCIT budgets have been prescribed by tradition rather than by intelligent thought. Individual items were indeed discussed, but in a random and disconnected manner, with the arguments appealing to the directors personal feelings of propriety rather than to any ethics for the spending of ASCIT funds. Or, to put it more simply,

past budgets have not been very well thought out. For this reason I should like to develop a criterion for the spending ASCIT monies.

For Benefit of Members

One point cannot be emphasized too much: ASCIT is a corporation which exists presumably for the benefit of all its members, and therefore its mon-

ey should be spent in a manner that will generate the maximum benefits for its members. ASCIT does not exist for its own sake; it does not exist for the Institute, for the city, state, country, world, God, or any other fool thing; it does not exist for the benefit of any part of its membership at the expense of another part, even if the aggrandizing part should consist of such noble people as athletes, politicians, or glorious members of the California Tech staff. ASCIT exists for the benefit of all its members, and its money ought to be spent for the benefit of all its members.

A Broad View

But let's not take a narrow view of what comprises "the benefit of all its members." I do not want to suggest that ASCIT monies should be spent only on functions from which every student will directly benefit; I do not want to imply that awards to individuals, trips for individuals or groups to conventions, costs of organizations within the ASCIT, such as the Glee Club, and the like are, by virtue of the fact that they do not directly benefit all the members, necessarily undeserving of ASCIT financial support. Not at all! It can be and it often is, albeit indirectly so, beneficial to all the individual members of the ASCIT to make awards, etc., because by doing so we can make this a better place to live for everyone.

But direct benefits to a segment of the total membership are justifiable only on the basis that somehow they will bring about a necessary benefit to the membership. These questions must be discussed with the benefit accrued to the total membership as the final arbiter.

What Is Valuable

Every expenditure made by the Board of Directors must directly or indirectly benefit the entire ASCIT. And, if the ASCIT is to be kept from becoming a junior version of a communist state, ASCIT money should be spent on things which the ASCIT, because of its peculiar position as an organization of college students, is particularly capable of providing. ASCIT should not become a general welfare organization. It should support only those worthwhile experiences and activities which its members would be hard pressed to find somewhere else.

My criterion is this: ASCIT money should be spent in a manner that will either directly benefit all the students or else will help raise the general cultural standards of our society, and it should be spent on those activities which ASCIT is peculiarly able to provide.

Heard From The Wings

by Joel Yellin

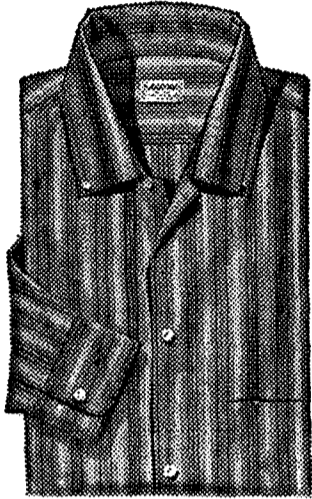
RCA issued two performances by Sergei Rachmaninoff on its Camden label. This means you can buy the masterful Rachmaninoff treatment of Chopin's B-flat piano sonata, containing the familiar **Funeral March**, of the second movement, and also Schuman's **Carnival**, both sides for \$1.98! According to Alfred Frankenstein in this month's **High Fidelity Magazine**, we can expect more of the previously unreleased Rachmaninoff masters from RCA.

To those who know it, Bartok's **Concerto for Orchestra** has a unique sound which one can listen to again and again. Ferenc Fricsay, a conductor who seems to derive great enjoyment from these contemporary writings, has made an excellent version for Decca, aided by the Berlin Radio Symphony Orchestra.

Emil Gilel's new recording of the "Emperor" Concerto easily comes up to the best previous treatments of this monumental work. The accompaniment is a little too non-descript, but Mr. Gilels plays impeccably.

Isaac Stern, the young American violin virtuoso, has cut a new performance of the Wieniawski Concerto No. 2, the Saint-Saens, **Introduction and Rondo Capriccioso**, and Ravel's **Tzigane** (Gypsies). With every disc he cuts, Mr. Stern grows more and more polished, and this new release is no exception. His technique is more polished and his insight is deeper than this writer has heard from him before.

I heard a snatch of some fascinating music by Villalobos on KFAC last night. Larindo Almedo, guitar, and Ruth Terry, soprano, have cut some of the South American composer's Brazilian music, and there are also duets between a flute and Almedo's guitar. From what I heard, it is a record to investigate.



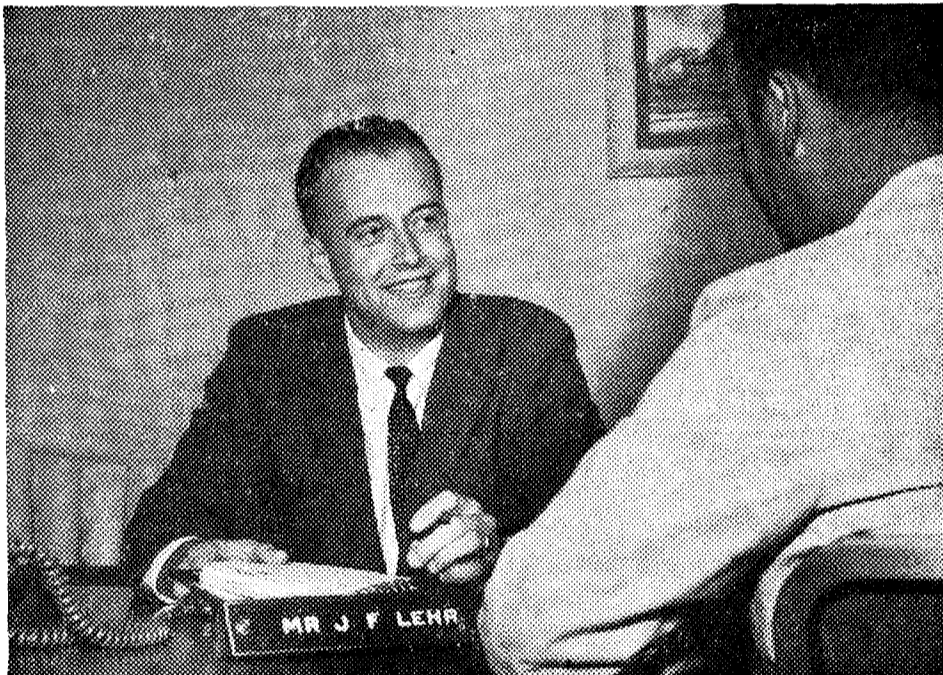
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A Campus-to-Career Case History



Westport's "Mr. Telephone Company"

The Westport, Connecticut, office of Southern New England Telephone Company is managed by John F. Lehr, A.B., Yale, '52. In Westport, John is "Mr. Telephone Company."

"This job has everything," John says; "responsibility, independence, a chance to contribute to the community as well as the company. I have 8600 accounts in my office, and every one of those accounts is a person who has to be pleased with our telephone service. I'm in close contact with the town officials, and take part in many civic activities. Needless to say, it's a very interesting assignment.

"How I happened to choose a career with the telephone company tells you something about the business. After a dozen or so interviews with various

firms, I picked the telephone company because it offered two things I was looking for—immediate opportunity, and long-range opportunity, too.

"You see, I was married in my senior year at college, so I wanted a career where I could start with a good salary, and get the training I'd need to advance in the shortest possible time. That's what I wanted immediately.

"The rapid expansion of the telephone business assured me of the long-range opportunities, because that expansion is creating more and more management positions to be filled. In fact, here I am, Manager in Westport, after only five years in the company. I don't know of another business where you can find more opportunities to get ahead."

Find out about career opportunities for you in the Bell Telephone Companies. Talk with the Bell interviewer when he visits your campus. And read the Bell Telephone booklet on file in your Placement Office, or write for "Challenge and Opportunity" to: College Employment Supervisor, American Telephone and Telegraph Company, 195 Broadway, New York 7, N. Y.



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22	23	24	25	26	27	28	23	24	25	26	27	28	29
29	30	31											

February
10

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will interview Senior Engineers on the above date. Your Placement Office has full information on many openings for you with this major manufacturer of compressors, pumps, engines, blowers, vacuum equipment, power tools, and mining and construction equipment. If you would like to design, develop, build or sell things mechanical, come to see us.

WE LOOK FORWARD TO A CHAT WITH YOU!

Pit and Paddock

by Bob Norton

Some people have inquired as to what a Grand Prix car is and how Grand Prix cars differ from sports cars. The following is intended to briefly answer these questions. For more information, the reader should consult Lawrence Pomeroy's monumental work, **The Grand Prix Car**, which is available from the general library.

A Grand Prix car is distinguished from a sports car in that the Grand Prix car does not have to have fenders, lights, starter, passenger seat, or other accessories which are necessary for racing. Virtually the only restrictions upon Grand Prix cars are the engine size and fuel regulations. At the present time there are three international formulas.

Formula I has maximum engine size of 2500cc unsupercharged or 750cc with a supercharger. The fuel to be used in 1958 is 100/130 octane aviation gasoline. All races which count for the driver's championship of the world, except In-

dianapolis, are run under this formula. Even though Indianapolis has not complied with any Formula since 1939, it is kept on the international schedule as a gesture to the United States.

Formula II has maximum engine size of 1500cc, with no supercharger permitted. The fuel is also 100/130 octane aviation gasoline.

Formula II has maximum engine size of 1500cc 500cc, with no supercharger permitted. Any fuel may be used, except for oxygen-bearing fuels, such as nitro-methane blends.

Argentine 1000 km.

Last weekend the first of the world championship sports car races was held in Argentina, the Argentine 1000 km. race. Phil Hill and Peter Collins co-drove to first place a three litre Testa Rossa Ferrari similar to the one pictured in this column two weeks ago. Second was von Trips and Gendebain, also in a Testa Rossa Ferrari. A surprise third was Stirling Moss and Jean Behra in a Porsche Spyder bored out to the two litre class.

Campus Brewins

Shortys Sexy

The Darbs went all out for sex this weekend and had a pajama party. Things were real great. Picture an orgy with nothing but shorty pajamas on well-stacked babes and plenty of refreshments. After all was said and done and everyone went over his purity score, it was found that the party came out with a surplus score, it was found that the party came out with a surplus of female underthings. It seems they have three pairs of female panties which will be turned over to anyone who can identify them.

At Random

Poor Troll Bogot is still running back and forth to Quartzite. You would think he would give up after sinking a kilo-buck in a '50 Ford.

Minning wants someone to share transportation expenses to a small house in west L. A. You can't miss it with the red lantern hanging out in front.

Davie Spence (said with a lispth) mentioned that it is unsafe to go to the Chef's Broiler alone. That Playhouse crowd is just too friendly.

That new guy on campus without a beard is Kamins.

Sec's At Tech

By Howard Weisberg

Partly hidden behind a stack of unfinished work in the placement office is the latest addition to Caltech's secretarial force.



Her name is Carolyn Mayhew, and she's a pert 19-year old who just graduated from Pasadena Nazarene college. Born in Bakersfield, Calif., she moved to Pasadena but not before being editor of her high school paper. At Paz Naz she majored in English.

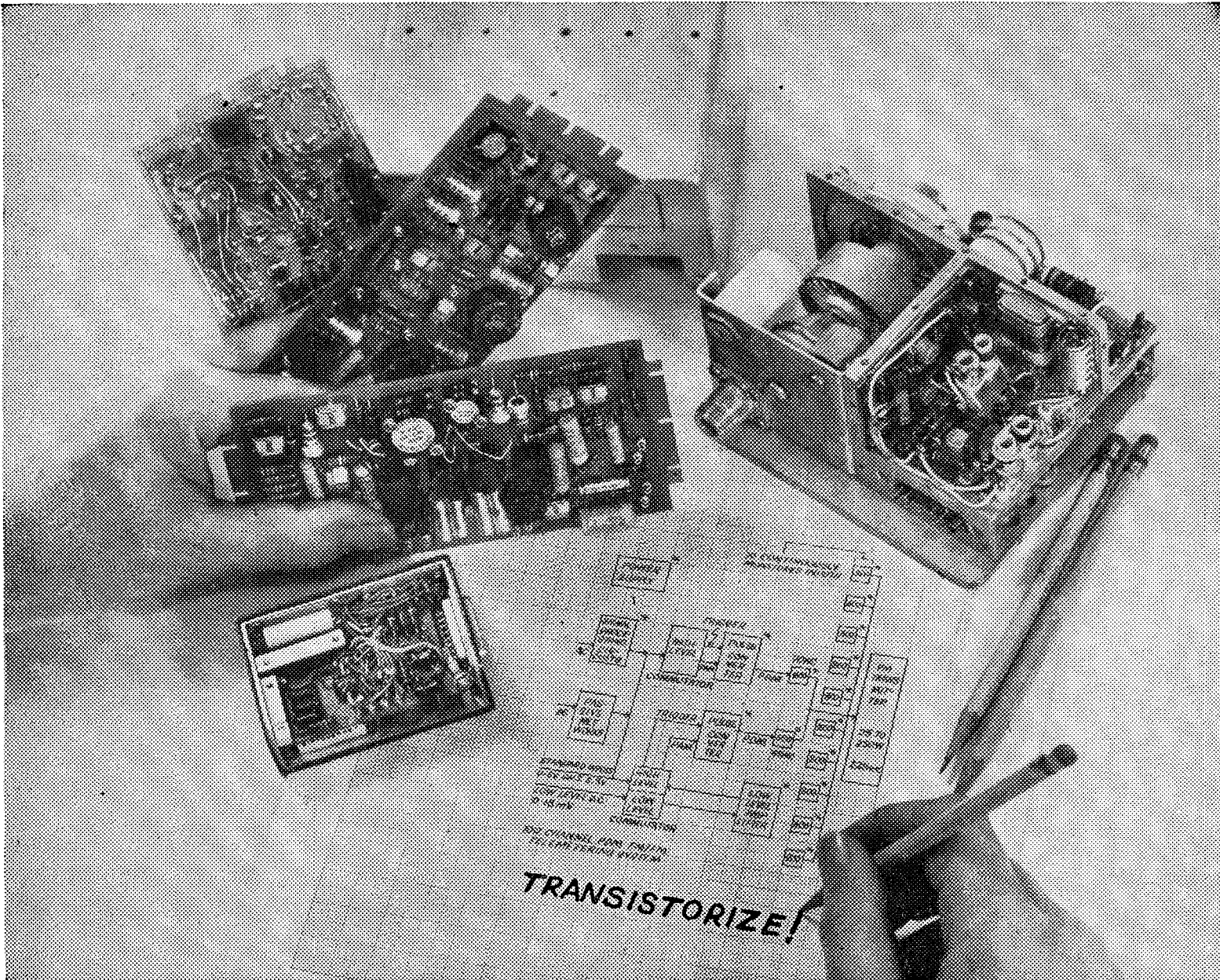
When asked about her interests she said, "Basketball. I just love to watch basketball. We have a pretty good team, or do you already know?"

Deftly changing the subject, we discovered that she has other interests and that included among them is music, "any kind but hillbilly."

She's 5'6" tall, and has light brown hair and green eyes.

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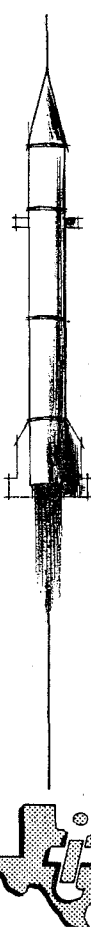


you can help missiles 'think' better!

Missiles are mental projectiles . . . "projections," actually, from your mind to paper to components to systems to complete weapons. And missile design demands our *best* effort to get top performance and maximum efficiency. Here's your chance to educate our missiles, applying latest techniques and newest devices in plants equipped to build components and complete systems without sub-contracting . . . telemetering, infrared, radar, sonar and many other systems from research through development to manufacturing.

The TI-transistorized telemetering system shown above, in this case more a "talker" than a "thinker," provides four times the radiated power in a smaller, lighter package than comparable vacuum tube systems. Not "frozen" to old design standards, it is almost completely transistorized and is completely electronic with no moving parts . . . a typical example of TI's policy of advanced systems engineering.

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openings

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Throop Wins 10-pin Trophy

The bowling trophy finally moved last Friday when Throop defeated Dabney, who has held it since its inception, by a total of 171 pins. Five-man teams competed on the Pasadena Lanes to open this year's competition.

The Throopers were steady but unspectacular as they rolled successive series of 784, 782, and when the issue was no longer in doubt, 742. Throop's Tracy Atherton, John Everitt, Ed Shuster, Skip Stenbit, and Jim Wilkinson led by 53 pins after the first line, increased their lead to 150 by the end of the second, and won going away.

The men of Dabney gave it a game try but never knocked over enough pins to seriously threaten the off-campus keggers. Bowling for Dabney were John Bard, Doug Christman, Bob Lebovitz, Jerry Siegel, and Leroy Sievers.

Ricketts has announced its intention to challenge.

Results

	Throop	Dabney
First line	784	731
Second line	782	678
Third line	742	722
Totals	2308	2131

Outside Opinion

AS I SEE IT

by Dr. Floyd "Doc" Hanes

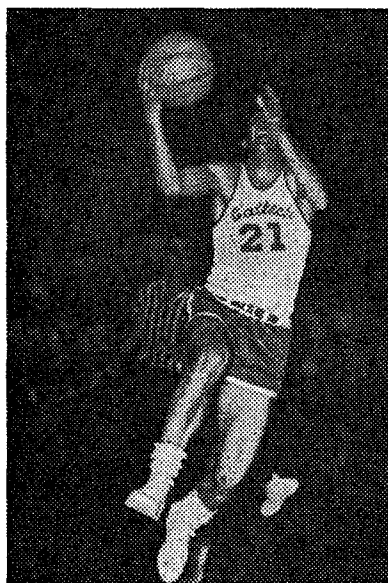
Many young men have asked the question: What is an athletic heart? They want to know what happens as a result of their participation in strenuous athletics and what to do about it after their years of competition are over. So a discussion of the subject is in order.

There is a fundamental rule of physiology that might be stated something like this: When any muscle is repeatedly used near to its capacity, the capacity of that muscle will increase. The heart, being a muscular organ, increases in size and capacity to do work when subjected to the use necessary for such strenuous competition as distance running and, to a lesser degree in other sports. This is normal and the enlargement of the heart is necessary for such a use and is a perfectly healthy condition.

However, the reverse of this rule is also true. If the heart or any muscle is persistently used below its capacity, the capacity will decrease. You know that if you carry your arm in a sling for a period of time, some of the power of the arm will be lost. If an athlete graduates from school and sits at a desk for any great period of time without some more or less strenuous exercise, the capacity of his enlarged heart decreases and the reserve that he has built up is not usable to its fullest extent. This is what I would call an Athletic Heart.

There is an easy way to avoid such a condition. Make it a part of your regular program, for as many years as you have been in competition, to do something that will make your heart pound and make you puff a little, at least once a week. In this way you will be using a part of the reserve that you have built up and then when an emergency such as pneumonia, or a hard exertion comes along, you will have a usable reserve to call upon. This is not too much a task for one who has spent three or four years at hard work on the track or elsewhere.

Tech Five Will Host Redlands Saturday



Fred Newman drives in for two points against Oxy.

Caltech meets Redlands in a return match at the Scott Brown Gymnasium this Saturday night. The Frosh teams are scheduled to play at 6:30 and the varsity will start their game at 8:00.

Last Saturday, the Beavers, playing at Redlands, came within nine points of beating the league-leading Bulldogs, succumbing 42-53. That game was far from being a run-away as the Techmen led through most of the first half, but were victimized by sloppy ball-handling.

When they finally settled down, time had run out. They started closing the gap late in the fourth quarter, but the margin was too large to overcome.

Redlands has a fine team; its conference record is proof of that, but the Beavers have the shooting ability to score an upset. If Tech's cagers add passing accuracy and more careful ball-handling to their usual spirit and drive this Saturday, the Bulldogs will be in trouble.

Following the game, a dance will be held, sponsored by the freshman class.

SCC Standings

Team	W	L	Pct.
Redlands	3	1	.750
Pom-Clar	3	1	.750
Whittier	2	1	.667
Occidental	1	3	.250
Caltech	0	3	.000

Rowdies Score Discobolus Win

Ricketts smashed Throop in Discobolus tennis over the weekend, 3-0. Last Thursday John Walsh defeated Gary Hachtel, 6-1, 6-0, and Frank Cormia defeated Joel Yellin, 6-4, 6-2. Saturday the third match was played after the postponement of the Interhouse match. Clint Frasier downed Chuck Antoniak, 6-0, 6-4. The other two matches were never played.

Dabney is next on the round to challenge for the trophy.

Standings

Ricketts	7
Blacker, Fleming	4
Throop	1
Dabney	0

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Sticklers!

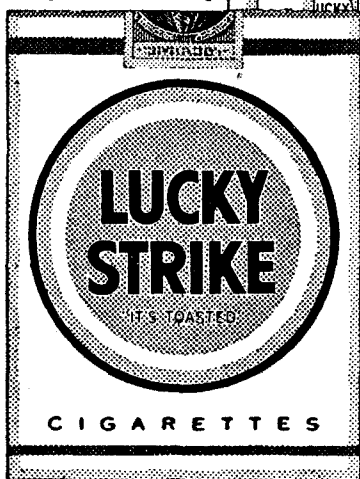
TAXI DRIVING, at best, is a *checkered* career. Some days, nothing seems to click—including the meter! Traffic crawls, motor stalls, horns bleat, bumpers meet. What a moment to reach for a Lucky—and discover (horrors!) you're fresh out. That's when the most genial driver turns into a *Crabby Cabby*. And why not? He's missing the best taste going... a cigarette that's light as they come. Luckies are all light tobacco—good-tasting tobacco, toasted to taste even better. Try 'em yourself. And step on it!



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WHAT IS A DEFLATED DIRIGIBLE?

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Slide Guide

WHAT IS A TINY STORM?

RICHARD NIETHAMMER, U. OF COLORADO
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Jazz

Miles Ahead - - Miles Davis + 19

by Lloyd Kamins

Arrangements by Gil Evans Columbia 1041, featuring: Miles Davis, flugelhorn; Bernie Glow, Ernie Royal, Louis Mucci, Taft Jordan, and John Carial, trumpets; Frank Rehack, Jimmy Cleveland, and Joe Bennett, trombones; Tom Mitchell, bass trombone; Willie Ruff and Tony Miranda, french horns (Jimmy Buffington replaced Miranda on one session); Bill Barber, tuba; Lee Konitz, alto; Danny Bank, bass clarinet; Romeo Penque and Sid Cooper, flute and clarinet (Edwin Caine replaced Cooper on one session); Paul Chambers, bass; Art Taylor, drums.

I consider myself totally inadequate a writer to do justice to this album. In retrospect, I have noticed my tendency to be exuberant over everything that I review. To avoid any possible doubt, I will simply state that this is the best record I have ever heard!

Miles is exquisite! He takes ALL the solos, and no one could possibly have any objections. Miles reaffirmed my convictions that he was the greatest living soloist. Although the tempos change around him throughout the album, Miles continues to be relaxed and lightly swinging. He was never more lyrical, and that is quite a statement. The simple beauty of each and every phrase astounds me. The man doesn't play any filler!

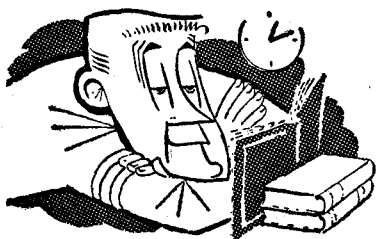
Miles and a flugelhorn go well together, and I hope it is a permanent arrangement. A flugelhorn is essentially a deeper and mellower horn than a trumpet. The absolutely pure sound that Miles coaxes out of the instrument is superb.

Tasteful Arrangements

With these arrangements, Gil Evans has suddenly become my favorite big band arranger. Instead of being a large unwieldy group, the band functions delicately as a unit, affording a perfect complement to the fluid lines of Miles Davis. The harmonies are not complex, but taste is in evidence, and the background is consistently interesting by itself.

This could easily have been reviewed as mood music, and would have drawn an equal amount of praise. Sometimes sad, sometimes happy, the music is always pleasant listening. My favorite track is a Spanish flavored blues called *Blues for Pablo*. *My Ship* is a haunting thing,

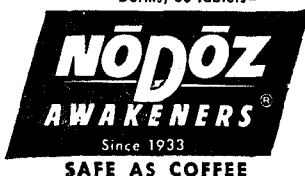
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and *I Don't Want to be Kissed*, trips lightly over the heater, but there is really no justification for calling attention to any one track. They are all good! The album is a work of art.

Like man, it's Endsville

I try, in general, to review rather than recommend, and I prefer to just present my own opinions, biases, and observations. In this case, however, I'm recommending! Go listen to this album, buy it, listen to it again and again. I should be playing it constantly until the grooves wear down, so come on over to my place and hear it. I'm beginning to feel like a missionary, but I can't conceive of anybody not falling in love with this album, and for that matter, with the work of Miles Davis.

STATEMENT

(Continued from page 2)

lished a division of responsibilities (exactly as there is a division of responsibilities in the modern business corporation) whereby one agency would concentrate on determining corporation policy according to the best interests of the student body and another would tend to the equally important task of maintaining the day-to-day services of the ASCIT.

"In its 23 years of existence the ASCIT has failed to formulate any definite policies on such matters as maintenance of ASCIT prestige, maintenance of student morale, maintenance and improvement of student-faculty relations, criteria for athletic awards, and educational problems; it has failed to consciously relate its activities to the long-range requirements of the student body; and it has failed to integrate its functions with those of other campus organizations, such as the YMCA.

"We are therefore proposing an

amendment to the ASCIT By-Laws which would establish a new body (to be called the Board of Directors) charged with the duty to determine the policies and plan the long-range activities of the corporation. The present BOD (to be called the Executive Committee in this amendment) would be charged to implement these policies, which, in actual practice, is about all the present BOD does at the present time.

"The purpose of the new Board of Directors shall be to

1. Conceive and implement long-range policies in the best interests of the students.
2. Secure the complete and efficient execution of all corporation activities and responsibilities.
3. Represent the considered opinion of the corporate student body.
4. Maintain the prestige of the corporation.

"We are of the opinion that this new system, allowing as it does for both mature consideration and effective day-to-day opera-

tion in the corporation government (as well as sparking increased participation) will breath new life and imagination into the ASCIT organization.

THE SPONSORS

SCRIPPS CONFAB

(Continued from page 1)

Jim Weaver, Y president, and Al Carlin, newly chosen Y secretary, are in charge of arrangements from Tech. Suzie Stofft, Lois Yensen and Rosemary Ruther are handling Scripps' part of the preparations.

Eleven Caltech professors and administrators have already accepted invitations to attend. In addition to Sands and Smith, the group includes Dr. George Latties, Dr. John Weir, Dr. George Mayhew, Dr. Robert Langmuir, Dr. Robert Sharp, Dr. Richard Dean, Dr. Beach Langston, Dr. Robert Leighton, and Charles Newton.

Any student interested in attending the conference should sign up in the Y office Monday, February 3. Cost for the affair will be \$6.50.



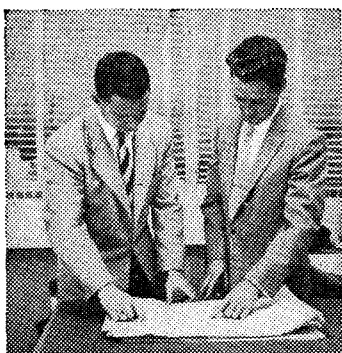
Product Development Engineer Gerald A. Maley, like many other engineers, mathematicians and physicists, came to IBM directly from college. Here he tells how he put his E.E. degree to work in the exciting new field of computer development.

What's it like to be with IBM?

"What really sold me," says Gerald Maley, "was the way they approach engineering at IBM. I had expected rooms full of engineers at desks. Instead, I found all the friendly informality of my college lab."

An E.E., he came directly to IBM from the University of Buffalo in 1953. Starting as a Technical Engineer, he was immediately assigned to work, with two others, on designing a small calculator. Jerry Maley learned a great deal about computers in a very short time. Incidentally, this small calculator has gone into production. "It makes an engineer feel good," he says, "to see his project reach the production stage—and to be able to follow it through."

Promoted to Associate Engineer after sixteen months, he became the leader of a nine-man team, assigning problems to his group for solution, approving their block diagrams and the models they built. A short while ago, he was again promoted—this time to



Assigning problem to group member

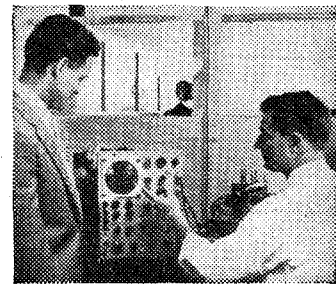
Project Engineer. "A particularly interesting aspect of my present job," Jerry Maley says, "is the further development of magnetic cores—new memory storage devices for electronic digital computers." His administrative details have been reduced to a minimum, freeing him for creative engineering work.

Perhaps an hour a day goes into paper work such as requisitioning equipment for his group and reviewing technical publications, in counseling members of his team, and preparing for trips to technical society meetings.

Why he chose IBM

Of course, there were many reasons why Jerry Maley selected IBM. He was vitally interested in computers, and IBM is a leader in computer technology. He comes from a scientific family (his brother is a mathematician), and is fascinated by these IBM mathematical marvels which are revolutionizing ways of doing things in so many fields. He enjoys working on large equipment... and on "pulses." "It's more logical," he says. "In computer work, you can actually see electronics at work. And it's not all solid math, either. What's more, this

field is so new, you're contributing along with everybody else in a short time." He endorses the IBM policy of promoting from within, with merit the sole criterion. The salary factor, although it was excellent, was not his first employment consideration, he recalls. The tremendous advancement potential was of greater importance.



Testing a new development

What about promotions?

When asked about advancement opportunities at IBM, he says, "You can hardly miss in this field and in this company. IBM sales have doubled, on the average, every five years. Company expansion at this rate—



Reviewing technical publications

in a dynamic industry—makes my future look bright indeed." Since Jerry Maley came with IBM in 1953, career opportunities at IBM are brighter than ever, as all business, industry, science and government turn increasingly to automation through electronic computers.

This profile is just one example of what it's like to be with IBM. There are many other excellent opportunities for well-qualified college men in Research, Development, Manufacturing, Sales and Applied Science. Why not ask your College Placement Director when IBM will next interview on your campus? Or, for information about how your degree will fit you for an IBM career, just write to:

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