Shorty Rogers Leads Coast Jazz In Friday Session

Outstanding West Coast Jazz will rock through Caltech 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, Dalockey, Dave Spear, Barton, and Brent Banta, Ricketts).

Immediately following the performance is a reminiscence to Louis Teichman and their dates will fill the Douglas and Fleming lounges.

Arranger, Composer

Rogers has served as arranger, composer, and producer of music for many years with the Stan Kenton Orchestras and has arranged and composed jazz sequences for motion pictures, including "The Man from Laramie," "The Man He Left Behind," "The Little Foxes," "The Canary," and "The Wild One." Shorty also records the sound track for animatronics and special effects and writes the themes for the UP NA "Mr. Magoo" cartoons.

Scientifically Driven Book For Youth

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

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

If so, it will not be the first one for Mrs. Watson, who has for the past thirty 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

SCIENTISTS DESCRIBED IN BOOK FOR YOUTH

Caltech researchers are single out as shining examples of what it's like to be scientists in a soon-to-be-published book for young people, newly 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 work. Judging both from its quality and current public interest in science, it promises to be a success.

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Ahead of Competition

WASHINGTON, D. C. (AP) -- The competition on this book, having started on it well before the recent Russian science publicity, is the author of the work. Mrs. Watson, who has written it using an annual approach. "My idea," she explains, "is to show what scientists are doing and how far they have gone. I want to ask 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 informals related to a specific project at Tech, for example, cosmic rays. No two divided men are named, however, so that the readers can identify themselves personally with what they are reading.

Fields covered are geology, astronomy, mathematics, physics, chemistry, and biology, 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.

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.

Expert

Randall is an expert on economics; he was formerly the president of Inland Steel, and is now the dean of the board. Before he became special assistant 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 of the Year by the National Sales Executive Association.

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

Monday afternoon, Mr. Randall will talk to a group of graduate students in the International Student Lunch Club. He will be in Black for dinner, and that evening he will meet with the ASCT Board and the Y officers.

Tuesday, Professor Sweeney's economics class will hear Randall on Randall, and he will eat lunch in Dalockey. 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, Rand- all will return to the campus at the end of his visit, at 7:30 in Dalockey. His talk is open to the general public, and he will conclude his stay by visiting the faculty at an open house.

Y-Sponsored

Randall's visit is made possible by the Y, and is being planned by a committee including Andy Ponder, Mike Lowry, Don Stern, Bill Bauer, and Nelson Byrne. The committee has more outstanding leaders, Reverend Martin Luther King, Victor Reuther, and Sir Sarve- palli Radhakrishnan, will visit Tech before the end of the year.
The Board approved the results of the Freshmen Class Elec­
tions. The new Board was elected by the student body.

The Board met informally on Sunday, January 26 to
consider more long-range problems by the establish­
m ent of elected
Executive Committees. The Executive Committees would handle
the expenses in the separate general areas. 

The present system of Board appointments and over­
sight of the general operation of the student body. It was felt, however, that this time was too short to
come up with new appointments along these lines before the resi­
ding elections. The meeting was called officially to order and the follow­
ing 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 pres­
cent Board be retained as a committee to submit another proposal at
the end of this school year. The vote was 6-3 (Godfrey, Rees, and Cordes).
The three Board members who were opposed felt that
the changes that would be made were too cumbersome to operate efficiently. Owings did not approve of
the proposed changes at this time and the Board by a majority of six to three defeated the propo­
sal. The vote was 6-3 (Godfrey, Rees and Cordes).

When the discussion of proposed changes was brought up at
the meeting Monday night a proposal was submitted by a group
of interested students. (See story, page one.)

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. The present organizational members of the ASCIT are too en­
cumbered 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 govern­
ment, and thus are not suf­
ficiently experienced to handle the problems of a policy na­
ture.

3. The men who are experienced in the operation of the
corporation are generally loath
to deal in policies; these men, who
were elected for the position of the previous evening which limited the changes
that would be made. The vote on res submi­
ning this proposal 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.

At this time Cordes presented a counter­proposa­l. This
property would allow the Board of Directors as it is presently organ­
ed to consider more long-range problems by the establishment of elected
positions which would allow them to devote their time almost exclusively to
nothing but the organization of ASCIT and the problems which concern
the student body. It was felt, however, that this time was too short to
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The three Board members who were opposed felt that
the changes that would be made were too cumbersome to operate efficiently. Owings did not approve of
the possible conflict between the two Boards. Kleidner stated that the people responsible for short-range duties 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
this area rather than the separate areas. It was moved that the
discussion of this proposal be tabled. The vote was 61-1 (Rees). At this time Cordes presented a counter­proposa­l. This
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With the best interests of the
students and faculty.

For information see your college
placement director.

Developing special fuels to break
world speed records like Donald
Cambridge's 225 mph run in his rocket-powered Bluebird is one of the exciting chal­
enges met by Mobil's team of experts
in the field of automotive engineer­
ing. That's why in its far flung operations
from Alaska to Argentina Mobil staffs close to 4000 engineers.

Two Barbers Every Day

The Charities to be represented this year are the Pasadena Com­
munity Chest, the World University Service and Muscular Disto­
ry. These charities were approved by the Board; vote 7-1. The

good 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.

The ASCIT organization 

There would be two main groups within the ASCIT organization.
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.

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4. The Board positions, by their
very nature, attract many people interested in doing a specific
day-to-day job of service, not
in determining policies in the
best interests of the corpora­
tion.

5. The fact that the ASCIT is not
necessary or not suffi­
ciently organized in its policy deter­
minations, if any, has been
to find the necessary time to
determine the policies of the corporation with the proper
decision and imagination.

6. The corporation administra­
tion would be both more ef­
fective and more consistent
with the best interests of the
students if there were estab­
lished...
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 5000 accounts in my office, and everyone 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 where he visits your campus. And read the Bell Telephone booklet on file in your Placement Officer, or write for "Challenge and Opportunity" to: College Employment Supervisor, American Telephone and Telegraph Company, 192 Broadway, New York 7, N. Y.
you can help missiles ‘think’ better!

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 100/10 octane aviation gasoline. All races which count for the driver’s championship of the world, except Indianapolis, are run under this formula. Even though Indianapolis has not complied with any formula since 1950, 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 100/10 octane aviation gasoline.

Formula III 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.

Argentina 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 Gendebien, 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.

OPENINGS

ELECTRONIC AND ELECTROMECHANICAL APPLIANCES – Radar, sonar, infrared, navigation, magnetic, telemetering, communications, computers, transformers.

SEMICONDUCTORS AND OTHER COMPONENTS – Transistors, diodes, rectifiers, resistors, and panel instruments.

RESEARCH – Ph.D. level for research: semiconductor materials and devices, noise, surface, ferromagnetics, optical, X-rays, microwave, magnets, radiation damage, high speed data reduction, etc.

MANUFACTURING – Engineers for production, planning, purchasing, cost analysis, etc.

INVITATION

Hitch your wagon to the Texas star . . . work at a pace that is within the city but away from downtown traffic . . . live within 15 minutes of your work or your play . . . year-around recreational, amusement and cultural activities. A Texas Instruments representative will be on the campus in a few days to give you more details. You may contact the placement office or write –

Texas Instruments Incorporated
6000 Lemmon Avenue
Dallas 5, Texas
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 spectacular as they rolled successive series of 794, 792, and when the issue was no longer in doubt, 792. Through's Tracy Atherton, John Everett, Ed Shuster, Skip Stenbit, and Jim Wilkenson led by 53 pins after the first line, increased their lead to 150 by the end of the second, and won 2308.

The men of Dabney gave it a game try but never knocked over enough pins to seriously threaten the off-campus keglers. Bowling for Dabney were John Barid, Doug Christman, Bob Lebovitz, Jerry Siegel, and Leroy Sievers. Ricketts has announced its intention to challenge.

Results

<table>
<thead>
<tr>
<th></th>
<th>Throop</th>
<th>Dabney</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>784</td>
<td>731</td>
</tr>
<tr>
<td>Second</td>
<td>782</td>
<td>678</td>
</tr>
<tr>
<td>Third</td>
<td>742</td>
<td>722</td>
</tr>
<tr>
<td>Totals</td>
<td>2308</td>
<td>2131</td>
</tr>
</tbody>
</table>

Throop Wins

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 reserve to call upon. This is not too much of a task for one who has spent three or four years at hard work on the track or elsewhere.

Fred Newman drives in for two points against Oxy.

<table>
<thead>
<tr>
<th>Team</th>
<th>W</th>
<th>L</th>
<th>Pct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Redlands</td>
<td>3</td>
<td>1</td>
<td>.750</td>
</tr>
<tr>
<td>Whitter</td>
<td>2</td>
<td>1</td>
<td>.667</td>
</tr>
<tr>
<td>Occidental</td>
<td>1</td>
<td>3</td>
<td>.250</td>
</tr>
<tr>
<td>Caltech</td>
<td>0</td>
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</tbody>
</table>

Tech Five Will Host Redlands Saturday

Caltech meets Redlands in a return match at the 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, they ran 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 Beavers could be in trouble.

Rowdies Score Discobolus Win

Ricketts smashed Throop in Discobolus tennis over the weekend. 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 Prusse, defeated Chuck Atkinson, 66-64. The other two matches were never played.

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

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

Miles Ahead - 19 Miles Davis + 19
by Lloyd Kamins

Arrangements by Gil Evans

Miles Davis, trumpet; John Coltrane, tenor; Sonny Stitt, tenor; Bill Evans, piano; Scott LaFaro, bass; Jimmy Cobb, drums.

STATEMENT

(Concluded from page 2)

lished a division of responsibil-

ities. But is there a division of responsi-

bilities? No, there is not. The prob-

lem here, as always, seems to be,

Making it clear.

Like man, it’s Ravello.

ty, in general, to review, to promote.

EQUIPMENT

(as well as sparking in-

IBM this time to

Development Engineer Gerald A. Maley, like

Safely

Louis Mucci, Taft Jordan, and

try, in general, to review

begin-

to

promoted

-'

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 activi-

ties of the corporation. The pre-

sent BOD (to be called the Execu-

tive Committee in this amend-

ment) would be charged to im-

plement 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 interest

of the students.

2. Secure the complete and ef-

ficient execution of all corpo-

ration activities and responsi-

bilities

3. Represent the considered

opinion of the corporate stu-

dent 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 govern-

ance, as well as sparking in-

creased participation will break new life and insinuation into the ASCIT organization.

THE SPONSORS

SCRIPPS CONFAB

(Continued from page 1)

Al Carlin, vice president, and

Al Carlin, newly chosen Y sec-

cretary, are in charge of arrange-

ments from Tech. Susie Stofft,

Lori Yensen and Rosemary

Buhler are handling Scripps’ part

of the preparations.

Eleven Caltech professors and

administrators have already ac-

cepted invitations to attend. In

addition to Sands and Smith, the

conference includes Dr. George La-

ties, Dr. John Weir, Dr. George

Baer, Dr. Robert Langston, Dr.

Robert Sharp, Dr. Richard

Dean, Dr. Beach Langston, Dr.

Robert Leighton, and Charles

Newton.

Any student interested in at-

tending the conference should

sign up in the Y office Monday,

February 3. Cost for the affair

will be $5.00.