**Toy Dance Celebrates Christmas**

Gerald Wilson Plays for Annual Semi-Formal

ASCIT's annual Christmas dance, to be held on Saturday, Dec. 7, will be this weekend's big event.

The dance, held this year at the San Marino Country Club, will feature the music of Gerald Wilson and his group. Dress will be semi-formal, which, according to impresario Tony Torillo, means dark suits for the men and cocktail dresses for the women.

**The California Tech Ends 3-Day Visit**

Dr. Theodore M. Greene, a proponent of "an orderly study of human values," will conclude a three-day visit to Caltech with a discussion of "Problems in the Philosophy of Science" tonight at 7:45 in Throop Auditorium.

"Why should I survive?" "Why do we deny the possibility of moral insight when we accept mechanistic deterministic theory to believe both in the intrinsic value of people and in a hostile or neutral universe?"

Tuesday evening, speaking in Dabney Hall, he asked the question, "Why should I survive?", discussed the serious philosophical problem of our time. He suggested that the world perhaps needed more ways to re-establish a more healthy relationship between each other and with Nature.

Wednesday noon Greene lectured on "A Utilitarian Discussion on the Differences between Science and Religion, stressing that science and religion are not in conflict in form and content, but not concerning the origin of life," he said, "between science properly conceived and enlightened religion properly professed." In Scripps Greene, a noted author and lecturer in philosophy of religion, art, and education, is currently Professor of the Humanities at Drew University.

**Lectures, Demonstrations Mark Students' Day**

Over 1300 students and teachers from 292 Southern California high schools are scheduled to visit for the annual Students' Day. Representatives will take an insight into the life at Caltech.

Each of the students has been assigned to one of the student houses for the day. Registration will take place at 8:30 in the house lounges. The students will be guided in tours of campus exhibits and laboratories. Each tour will visit six of the several dozen exhibits sponsored by all the departmental organizations.

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**Announcements**

**Y FILM SERIES**

"Treasure of the Sierra Madre." In the Y film series, the movie Sunday night at 7:30 in Colburn Hall. Admission charge of 45 cents will be collected at the door.

**PHOTOGRAPHIC EXHIBIT**

Big T pictures will be taken from 4:00 to 4:30 p.m. next Tuesday on 7:00 to 8:30 p.m. Monday through Thursday. All who have not had pictures taken are asked to be at the Big T office at one of these times.

**PREGISTRATION**: Students who have not yet registered must pick up their pre-registration cards immediately at 119 Throop.

**TECH JACKET**: The grey Caltech jackets have been in use for several years by the Beavers. Measuring for size took place in Fleming, Dabney, and Blacker earlier this week, and will be held in Blacker tomorrow and in Throop club Friday noon. A $2.00 deposit is required, and the total cost will be $12.00. Orders may be placed with Dave Leeson, N7, until Friday dinner.

**Dabney exhibits "Great Ideas"**

The second in the current series of lectures at Caltech is open to the public in the lounge of Dabney Hall, Thursday evening, starting at 9 p.m. The discussion entitled "Great Ideas of Western Man" will offer a collection of color prints and advertisements designed by some top American artists for the Container Corporation of America.

"The Relation of Science and Religion" under the auspices of the Caltech YMCA.

**No Laurels For Orators**

Caltech sent its biggest delegation in three years to the annual Western Speech Association Tournament last week, but failed place in any of the events. The tournament, which was held at Pepperdine College, attracted forensic squads from nearly all the major colleges and universities west of the Rockies.

Andrew Perry, Cleve Moler, Ken Schofield, Tom Morton, Roy Curren, and Maury Kallerud represented Tech in upper division debate, while Peter Stekel and Stan Klein held forth in the lower division. None of the four teams made the final rounds.

Dave Jefferson will take part in the W.S.A. Alternate Tournament to be held this weekend at Occidental.

These two tournaments completed this year's special activities. Speech coach, Dr. Dwight Thomas, announced that the tournament will begin again in February with the Individual Events meet at USC.

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**Schoenberg-**

**FOOTBALL**

Tech 21 - La Verne 7

**SOCCER**

Tech 4 - Pomona 0

**BASEBALL**

Tech 7 - 3

**WATER POLO**

Tech 8 - 7

**OXY COUNTRY**

Tech 9 - 5 (Dbl. overtime)

**CROSS COUNTRY**

Tech 11 - 7

**Basketball**

Chs 80 - Tech 44
The Interhouse Committee recently passed a resolution promising a more effective retroactive change in the Honor System. The action was taken to remove the major-minor distinction among the sports, setting the scoring on the basis of 25 points maximum for all sports. The resolution was passed to avoid the precedents set by the IHC.

The amendment proceeded approximately as follows: It was agreed around the table that there were approximately the same number of participants from all of the houses in any given sport, but that the Honor System is composed of the Board of Control, a restricted system of people in which the BOC is the final judge. It is a restricted system covering only those areas which fall to it from the action of previous Boards and those areas it may assume during its present operation. The Honor System then gets to decide and the Honor System makes the final decision.

At this point the question arose of when the proposal should take effect. The idea was that the Board of Control has clarified its position on the matter of thefts with a recent resolution, and the Board of Control, in line with the Honor Spirit, is to make the change effective immediately. It is, however, being recommended to their respective counts to take the count and see if they stand to lose or gain. The action of the vote was in question until one house discovered it had a ‘rock’ in a minor matter; in the interests of experience this house changed its vote, and the motion to make the change effective immediately passed, 7-1-1.

In horseracing and jockeying for advantage by changing rules in the middle of the game that makes the Interhouse Committee at once a large change in the honor system. What is not tantamount to respect, academic integrity, and personal honor, it cannot function in this spirit, house has told to those who stand to lose, to lose more. So as to be able to take the count retroactively was defeated.

The question then became: now, or in the future? In the future, that would be more in line with the ASCIT system. In the future, the IHC would have to take the count retroactively as well.

In this respect the decision was made to remove the major-minor distinction from the Honor System. The vote was split sharply into those who stood to gain and those who stood to lose. As more stood to lose than gain, the motion to act retroactively was defeated.

The resolution received a great amount of attention from the student government scene at Caltech. The possibilities of applying this new idea to other areas were explored, and it was decided to let the student body decide whether or not the change should be effective immediately.

The resolution was passed to avoid the precedents set by the IHC. It was agreed that the Board of Control has clarified its position on the matter of thefts with a recent resolution, and the Board of Control is to make the change effective immediately. It is, however, being recommended to their respective counts to take the count and see if they stand to lose or gain. The action of the vote was in question until one house discovered it had a ‘rock’ in a minor matter; in the interests of experience this house changed its vote, and the motion to make the change effective immediately passed, 7-1-1.

The IHC is now handling this case directly under the authority of the Honor System for any student to take possession of any work of art or property, which falls to it from the action of previous Boards and those areas it may assume during its present operation. The Honor System then gets to decide and the Honor System makes the final decision.

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THE CALIFORNIA TECH
A Campus-to-Career Case History

Mike Jansen, Caltech Junior, was arrested last November 15 by the Pasadena Police during the Bonfire on San Pasqual St., after the football game with Occidental. Jansen was arrested for failure to disperse when so ordered by an officer of the law. There was little damage done by the fire itself, but the spectators, both students and faculty members, failed to cooperate with the officers who had attempted to control the situation. The school was surrounded by policemen and squad cars after the game.

New Charge

When it was found that Jansen was the only person who had been charged with failure to disperse, the charge was changed to "failure to move out of an area so ordered by an officer of the law." Jansen stated that "My arrest was unreasonable in view of the fact that I had done nothing to make myself more objectionable than other members of the crowd."

He drew a five-day suspended sentence.

Aftermath ... Spectator Sentenced

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Around The Quad

GREEN

George W. Green, vice-president for business affairs and comptroller of the Institute, has been elected secretary-treasurer of the National Federation of College and University Business Officers Association.

KILLIAN COMMITTEE

Dr. R. F. Bascher, Chairman of the Physics, Math, and Astronomy Divisions, is one of the five experts appointed to the new Science Advisory Commission headed by Dr. James Killian.

Robertson

Dr. E. P. Robertson was appointed Chairman of the Defense Science Board by Deputy Defense Secretary Quarles. The 25-man advisory group to the Secretary is assigned the task of studying the military potential of scientific and technical advances and rendering specific advice on the Defense Department's research and development program.

Prexy Sees Incentive in Russ First

Dr. Lee A. DuBridge is "glad the Russians sent up the first satellite." The Institute President went on to say, in his talk to the Physics Club Thursday, November 21, that the Russian launching of the first satellite will serve to make us realize that Russia, having built a soundly conceived educational system, is able to do and is doing fine work in physics.

He said that we could have sent up a satellite years ago, but that no one realized the propagandas value of the launching. Many of the agencies which could have launched such a satellite were busy with projects which were of more military tactical value.

Parity More Important

Dr. DuBridge called the launching of the satellite the result of the mere development of another instrument rather than a real scientific advance. He said that as far as science is concerned the discovery of the non-conservation of parity is more important than the satellite.

A Campus-to-Career Case History

Howard R. Winter, B.B.A., Texas A. & M., ‘51, is now a Commercial Manager with Southwestern Bell Telephone Company in Houston, Texas. He’s in charge of 30,000 telephone accounts and a staff of 36 people.

Howard’s interest in a telephone career dates from his first interview with a telephone company representative. “I looked at all the angles,” he says. “We discussed pay and chances for advancement, which looked excellent because of the rapid growth of the Bell System. We talked about many different kinds of work, and there seemed to be something for me.”

After receiving his degree in business administration, Howard joined Southwestern Bell’s Commercial Department. “It was natural for me,” he says. “I have a business background, I like to sell and make contacts.

“My training gave me a really solid foundation in the business. Two years in the Army interrupted it, by the way, but the two years were credited to my military service.”

Be sure to investigate the career opportunities for you in the 17 Bell Telephone Companies serving all 48 states. Get to know the local company to represent your interests.

For more information about these career opportunities, 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 Co., 195 Broadway, New York 7, New York.
Greene and Caltech
by Bob Walsh
Dr. Greene's visit (see page one) has been a contact with philosophical thinking and problems of a caliber much more deeply than usual on our personal philosophies, and an opportunity to study closely an outstanding academic.”

Greene is not a young man. Frequently one finds that his ideas are expressed “patily” because he has repeated them often enough to have made them part of him.

Greene feels that the instruments of this study are clear thinking and the man who comes with worthwhile experience. His wisdom and thinking seem to have brought him to a conclusion that the basic ideas are indeed universal. He feels that this universalism must be caused by a higher agency. Greene’s greatest weakness as a lecturer during the first two days has been in understimulating the audience. He is philosophical in thinking the students. He has taken great pains to have his ideas clear, and important questions are, but it is probable that most of his audience had already reached the conclusions he was drawing. Therefore the discussion would have been of greater interest than the lecture.

Most Techmen will find it worthwhile to take an hour or so from their last-minute studies and meet Doctor Greene.

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Jazz

Album Shows Brown's Greatness

Clifford Brown and Max Roach EmArcy

by Lloyd Kamins

Dihle with a teaspoon of plain water. Toss in a dozen dry ice cubes, stir briskly and serve in large glasses.

This punch is about 35 proof, which is pretty stiff for punch. However, for those who like their drinks strong this may be beefed up by using 101 proof Demerara Rum or by the simple expedient of adding ethanol, which may be purchased commercially under the trade name of Everclear.

Antidote

As this punch goes down like soda pop, there will be those who will inhale an abnormally large quantity. Rather than resort to Sal Hepatica highballs the next morning, we suggest the following remedy.

1 jigger whiskey
1 teaspoon chile powder
1 teaspoon Worcestershire Sauce

Dissolve one raw egg white and beat until egg white is fluffy, being careful not to jingle head while mixing drink. Drink rapidly and struggle back to bed. Expiere.

Our new idea in smoking...

Salem refreshes your taste

- menthol fresh
- rich tobacco taste
- most modern filter

Salem adds a wholly new quality to smoking... refreshes your taste just as a sudden breeze on a warm Spring day refreshes you. Rich tobacco taste with a new surprise softness... menthol-fresh comfort... most modern filter, through which flows the freshest taste in cigarettes. Smoke refreshed... pack after pack... get a carton of Salem's!

Take a Puff... It's Springtime
Bob Dalbeck
Where do you get the extra $100,000?

Some critics of business still maintain that profits are too high.
"I wonder if they have any idea of how much more it costs to do business today than it used to? Union Oil is a fairly typical example.

"In 1927, the company bought an 80,000 barrel storage tank for $25,000. Under Federal Income Tax laws, we were permitted to recover our investment over 30 years, the life of the tank.
"By 1957, when it's time to replace the tank, the company has set aside $25,000. But what has happened? Due mainly to inflation, higher wages and material costs, the tank now costs $125,000.
"Where do you get the extra $100,000? Union Oil gets it out of profits, and by increasing indebtedness from time to time. Out of profit? The fact is, we have to sell $1,250,000 worth of products to clear the $100,000.

"Put another way, the company's entire profit for one day, the total earnings that day on $400,000,000 invested by share owners, and the efforts of over 8,000 people—all went to replace one 80,000 barrel tank, of which we now have over 150.
"Without profits, Union Oil couldn't afford to replace that tank. And without the new tanks and other equipment we have to replace to stay in business, there'd be no jobs for any of us!"

Bob Dalbeck is something of an authority on profits. He is an Assistant Comptroller for the company.

He estimates that only about 19 minutes in the average company's 8-hour working day go to earn a profit. The rest is spent paying off the cost of doing business.

And less than half of those 19 minutes result in dividends to shareholders. The other 9½ minutes are reinvested in the business to keep it up to date and competitive.

Your comments are invited. Write: The Chairman of the Board, Union Oil Co., Union Oil Bldg., Los Angeles 17, Calif.
Brons Beat Beaver Cagers In Opener
Cal Poly hoopers grind out 59-44 win; Newman scores 15 to lead team

The Broncos from Cal Poly dumped Tech's basketball team 59-44 on the home court. The Beavers' 5'7" cage debut on Tuesday game after the Broncos opened a 20-point lead in the first half and held it with little change until the final gun.

Tech's all-SCC forward, Fred Newman and Cal Poly's Hogan, led the scorers with fifteen points apiece. Bob Emmerling, the second big gun for the Broncos, was 11-for-16 in the game.

Soccermen New League Champs

The Caltech soccer team defeated Pomona 4-2 on the home field Nov. 23 to win its first league championship since 1953. Coach Anderson's men compiled a season record in league play of 4-1-1 to cope the big prize. Final standings:

Caltech 4-1-1
UCLA 4-2
Pomona 3-2-1
Riverside 0-6

Following regular league play the booters took on a local professional team. Scandia, under the light at Paddock field, succumbing after a hard fight by a score of 2-1.

The big game of the season was the second game with Pomona. Before the game both teams were tied for first place, so the "pressure was on." In a hard and fast game, tied 2-2 at the half, Ed Mumms, right inside, scored three goals and Luis Baez-Duarte booted in a clincher in the second half, Ed Tumms, right in-side, scored three goals and Luis Baez-Duarte booted in a clincher as the team rounded out a 4-2 win.

In the first game of the season a 0-0 dead was played out on Pomona's field. At the time, this was considered a mild upset by the Beavers.

They next downed Riverside 20, following which UCLA was humbled 3-2 in one of the season's closest games. In a return engagement at Westwood the Bruins gained their revenge via a 2-0 win.

The season's only runaway game was played here with Riverside and the booters romped with 7 scores, as Riverside failed to make the team a real contender.

Webmen Compile 2-4 League Record For 3rd Spot

Two weeks ago Friday the Caltech water-poloists finished the 1957 season by losing to Occidental. That went Oxy 56 in double overtime after leading 5-3 early in the fourth quarter. This loss gave the team a 2-4 record in league play, which garnered the Webmen third place in the annual conference standings. A win over either Pomona or Oxy would have given the "polo" team second place in the conference. Total defense was again best in conference.

OPINION

AS I SEE IT

by Dick Van Kirk

Much as I regret to say it, football season is over at Caltech. Next major sport on the calendar is basketball. Coach Gene Rock's varsity basketball team already has played one game, and two more are scheduled to be played before the Christmas holidays. As the upperclassmen know, the wireless records in basketball haven't been the best in the past three years. Four years ago Caltech won the SCC championship in basketball and since then the Beavers have been unable to win a conference game. This year things may be different.

Lack of height

Chief characteristic of this year's outfit is lack of height. At 6'1½", Glenn Converse and Irv Brinson, the tallest of the eight or nine "regulars" who will be doing most of the playing for Caltech this season. At first glance, the lack of height is the one thing which will be noticed by any casual observer. If you watch the team in action, a second common characteristic is glaringly obvious. That is a willingness and tremendous out-put of that thing called "hustle."

Watch the Beavers in action for any length of time and you will get a vivid demonstration of their alacrity and hustling style of play. The players are constant-ly on the lookout for opportun- ities for fast breaks, or for screens and blocks to set up a scoring chance for a teammate, and when the opportunity comes they do their best to make the most of it. That they are always successful in these at-tempts is a result of lack of pol- lish and experience, and certainly is not due to a lack of desire, or to a casual attitude on the part of the players.

Another noticeable fact about the team is the increased balance between the starting team and the alternates. There was a big difference between the first and sec-ond teams, this year there are several players who are pushing for starting berths, and making a real fight to get on the first team.

Obviously this competition is good for the team as a whole, it means everyone has to work harder. The starters hustle to stay on the first team, and the second team plays that much harder, because they know that they have a good chance of tak-ing over one or two starting positions.

Berry, Van Kirk unanimous all-SCC first string choices

Tech quarterback Dick Van Kirk and tackle Larry Berry were unanimously placed on the all-SCC first team last week. On the second team was the coach's choice for starting center, Russ Fizer and halfback Don Stocking. They led the Beavers to their first winning season since the days of 1952.

Scc Runners Compete

Tech's cross country team will enter the SCC championship meet, Saturday at Mt. San An-tonio Junior College, with a 4-2 record. A win over either Pomona or Redlands for second place is expected to go to the Beavers. The meet will begin at 10:00 a.m.

During the second half, Tech's all-SCC quarterback, gets caught from behind by LaVerne player. Tech went on to win 21-7.

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Million-Dollar Brains
Spur Caltech Research
by Les Hirst

Equipped with a million-dollar battery of "mechanical brains," Caltech has begun a major expansion of its research program in the field of large scale machine computing.

The objectives of the enlarged computer program, as summarized by Dr. Gilbert D. McCann, Caltech professor of electrical engineering, are as follows: 1) to provide a general computing service for existing campus research; 2) to make possible new fundamental research in theoretical mathematics; 3) to provide a nucleus for research in the application of machine computing methods to engineering and scientific analysis; 4) to provide a facility for the instruction of students in computing methods, design and instrumentation.

Computers have of late been applied with increasing importance to such problems as the determination of optimum design for airplanes and missiles; the interpretation of data obtained in Caltech's X-ray crystallography research program; and the solution of complex problems in the mechanics of nuclear particles arising in connection with Caltech's synchrotron.

Facilities of the new center will include an ElectroData Dataatron, a large scale general digital computing service facility for the campus; a large scale direct analogy electronic analog computer, to be used largely for structure analysis in airplane and missile design problems; an IBM 706, for research in computer design and application; and an LQF-90 commercial purpose computer built by Librascope Inc. of Glendale.

Funds for support of the new program have come partly from the Institute's general funds, but local aircraft, electronics, and other corporations have also provided liberal financial support.

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Hooper's Loses
(Continued from page 7)

settled down, soon after half-
time approaching within seven
points. Cal Poly had won, how-
ever, as the two teams fought
on even terms down to the too-
late pressure in the winning mo-
ments.

Box Score
Caltech
Player fg ft pf tp
Converse, f .............. 2 2 2 6
Magdalena, g .... 1-1 0 3
Van Kirk, f ....... 4 4 5 2
Newman, f .......... 6 3 4 15
Kraus, e ............. 1 0 3 5
Steine, g .......... 2 0 0 2
Enderling, g ....... 5 0 3 10
Totals .................. 17 14 13 44

Cal Poly
Player fg ft pf tp
Singh, F, f ............. 2 2 2 6
Bode, f ............... 0 0 0 0
Hogan, f ......... 5 5 5 10
Singh, P, f ......... 1 0 0 2
Puls, c ............. 4 0 4 8
Wasserman, e .... 1 1 1 3
Cota, f ......... 2 1 1 5
Yamamoto, g ......... 0 0 0 0
Best, g ......... 4 0 4 8
Buncanm, g .......... 1 0 0 2
Totals .................. 25 14 17 50

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