**California Tech**

Associated Students of the California Institute of Technology

Vol. LXV. Pasadena, California, Thursday, January 16, 1964 Number 13

99.44% ROT!

Lukas Foss To Discuss Composition Improvisation

*BY DAVID HELBEFF*  
Lukas Foss, considered one of the most important American composers of music who will be visiting Tech next week, is a whirlwind of musical creativity whose accomplishments include being the conductor of the Buffalo Philharmonic Orchestra, past President of Congress at UCLA, where he succeeded Arnold Schonberg, composer of many works, including his prize-winning *Time Cycles*, which has been major in the field for the past two years, a creative pianist and interpreter of many forms of music, and the foremost exponent of the technique of improvisation. He is a new and exciting method of serious and meaningful musical expression,牢固树立ing in the minds of the major interest of Mr. Foss since 1952, when he founded the Inter- 

**Fall Kidnapping Shakes San Marino**

*BY TIM HENDRICKSON*  
A kidnapping of a student from San Marino High School, January 8, by five Lloyd House sophomores who had finshed out of Caltech, was attended. He had been enrolled since Monday.  

As had been planned two hours earlier, the five succeeded in dragging Simpson out of the classroom after a brief, realistic campaign in two cars waiting out-side.  

According to Dr. Noel Lawr-

eon, principal of San Marino High, the incident led to no dis-

continuity of classes scheduled for the remainder of the after-

noon.  

The prank was soon disclosed, and the story later appeared in the Pasadena Independent and on radio station KRLA.

**Father Lasser Explains Catholic Faith, Relates Church Stands**

*BY HANK SUCZAWKA*

Father William Lasser spoke in the Y Lounge in Winnett Tuesday evening on Catholicism in the U.S. and its relation to living world religions. Father Lasser, who was ordained last summer by Bishop Michael A. Curri, is presently studying for the priesthood and wishes to improve in comparative religions.  

**Mushroom Wins Award**

Beckman Auditorium has done it! Last night at a dinner presented by the Calliope Foun-

dation in the Athenaeum, the Foundation presented a Pau-

sena Beautiful award for mak-

ing Pasadena more beautiful. This is the third year of the presentation of the awards, which are presented to buildings constructed within the last calendar year. Some of the other winners this year were the Cats-

Civic Entrance of Citizens’ Commer-

cial Bank and Trust, the Elec-

tric Service and Supply Com-

pany, the Pacific Telephone and Telegraph Company, the Pasadena-

na Merchants’ Association, and the Cracker Barrel Market on North Lake Avenue.  

**Hammond Appointed Noyes Professor of Chemistry**

President Leo A. Dreiburg an-

ounced today that Mr. George S. Hammond has been appointed Arthur Amos Noyes Professor of Chemistry at the California Insti-

tute of Technology.  

The chair is named for the distinguished chemist, the late Dr. Noyes, who was one of the founders of Caltech and who at one time served as acting presi-

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**Outstanding Research**

Dr. Hammond, 43, was hon-

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**Notes**

**Y MEMBERSHIP MEETING**

A meeting of the YMA mem-

bership, upon to all, will be held at 6:30 tonight in Chandler (meals exchanged) to discuss the current fight against fair housing legisla-

tion in California. Come at 7 p.m. if you cannot make it at 6:30.  

**MATH CLUB**

The Caltech Math Club will meet at 8:00 p.m. Wednesday, January 22, in 151 Sloan. Dr. Richard Feynman will talk on “Applications of Mathematics to Mathematics.”  

**FLY BOYS**

The United States Air Force Academy and the Columbia Study Center Center will meet at 9:30 p.m. on “Outer Space.” April 1 through 4 at the Academy. Caltech will send one representative, who must pre-

sent his qualifications to the ASCOT Board by January 27. The reg-

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Having been impressed by international happenings during the past two months, Blacker from Joe Kinkade and Bill Simpson wrote letters to both DeGaulle and Adenauer informing these two leaders that they were under consideration, by the R. T. Blacker Foundation for its annual award for leadership toward world improvement. The Foundation, though non-existent then, is however an established organization.

At the end of last term Kinkade and Simpson received a call from the Pasadena representative of DeGaulle and Bradstreet, who wanted information about the financial status of the Foundation. The representative, Mr. Hodak, was referred to Mr. Arvind Vyvarlu and Mr. Courtleigh Maltahome, officers of the Foundation.

Would Undid

These two individuals gave Mr. Hodak all the information about the Foundation's history, its organization, its assets $331,624 in the treasury, and its plans for presenting the award to the selected leaders. It was later this fall, following a Brad street investigation was requested by the West German Consul.

History

Those who are unfamiliar with the R. T. Blacker Foundation here is its hastily constructed history. About five years ago a group of Pasadena residents, in thehip of the Fireplace Society," and met

From Other Campuses

By Jace

This week, as a new and interesting feature, and primarily because of a lack of material, this column is presenting a real life egocentric from the Syracuse University Daily Orange. Ron Turel, columnist for the Daily Orange, has found that there is a breed unique unto itself. That breed is a little nowhere. We decided the shine at the station with my date for the weekend.

"How was it great!" she exclaimed ardently. "How was it great!" we wanted to know. We were determined to rove out the reason for this naive girl's enthusiasm.

"Well, just everything about it was great," she replied.

This was getting us absolutely nowhere. We decided the time had come for us to change our plans of questioning. What did you do while you were there?"

"Oh, everything."

This, we thought, was very explicit, the station with my date for the weekend.

"Well, I came up here by train on Friday. It was a nice train ride, as far as train rides go, I suppose. Then Flicker met me at one another's hearth to discuss world events for their mutual enlightenment. Two years ago these individuals decided that it would be worthwhile to form a new group, namely the R. T. Blacker Foundation. The Foundation dedicated itself to the selection of world leaders to whom it would present its Award for leadership toward World Improvement. The Foundation is financed by anonymous contributions from members and outsiders. This year's award is the first annual presentation.

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R. T. Blacker Foundation Awards

First Annual Prize For Peace

The EPC will conduct a poll of the students to rate all courses and instructors. It was decided at last Monday's meeting of the EPC in Clubroom No. 27, that the Board approved the poll which is to include the ratings of all courses and questions. The poll will be distributed to every student who may answer about each course that he is taking. This rating, which will be conducted later in the spring, is hoped to aid in improving the instruction at the Institute. Four out of six division chairmen were said to have expressed their approval of the poll. The EPC thought that the ratings should be distributed in division to each instructor and that to each division chairman should go all of the ratings in his division.

Bad and Trivia

The ASCIT Bud and Travis concert, scheduled for February 27, was discussed in detail. The Board decided that the ticket price for students, at any college or high school, would $1.75 and $2.10, and for non-students $2.75. Said Board will be held in Beckman providing the building is completed in time.

Game Room

The coming problem of theft and destruction of property was discussed. Two student game rooms was taken up. The new game room chairman, James Conoyer, was appointed assistant of the Foundation. However, in a recent letter from "Le directeur du cabinet diplomatique de France," General de Gaulle declined to accept the Foundation's honor because of prior engagements, etc.

The Foundation is still hopeful of presenting the award to Adenauer in the Beckman auditorium sometime near April 1. More Hammond

(Continued from page 1)

In a third administrative change, Dr. Harold Lurie, associate dean of graduate studies, was appointed assistant of the Foundation for leader research. The award carries no monetary value, but is in the form of a medal and a scroll describing the recipient's contributions toward world improvement.

The award carries no monetary value, but is in the form of a medal and a scroll describing the recipient's contributions toward world improvement. The medal is to be a bronze medal hung from a heliostone and vermilion striped ribbon. The medal has on it an elephant head with two swords stuck through it. Around the periphery will be the words: "If the logo in the fireplace are made of plastic, why don't they melt?"

This has been heard from the German since the German Chancellor talked to Institute officials. However, in a recent letter from "Le directeur du cabinet diplomatique de France," General de Gaulle declined to accept the Foundation's honor because of prior engagements, etc.

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CAMPUS NEWS

TUES., WED., JAN. 21, 22

Pratt & Whitney Aircraft

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specialists in gui...- powered for propulsion for auxiliary systems... current available, now by be... in general and industrial applications...
Radiologists' Death Rate Phenomenal

The death rate from three fatal blood diseases is three to five times higher among radiologists than among other men, a Caltech biologist has discovered. The higher death rate apparently is due to the occupational hazard of radiation.

The study, by Dr. Edward B. Lewis of the Caltech Division of Biology, was reported today by the American Cancer Society which helped support the work.

Radiation Doses

"Pretumably the reason for the high death rates among radiologists is leukemia, aplastic anemia and multiple myeloma," said Dr. Lewis. "These are diseases of the blood-forming and lymphatic systems which seem to be very susceptible to damage by radiation."

Dr. Lewis based his investigations on the death certificates of 21 deaths among 25 American male radiologists, aged 35 to 74, who had died between 1958 and 1961, and who were certified by the American Board of Radiology.

The biologist found 21 deaths of radiologists from the three fatal diseases, whereas if these specialists had been subject to the normal death rates for their diseases, only five deaths would have been expected.

Twelve To Leukemia

Twelve radiologists were reported as dying of leukemia, although the number of such deaths expected on the basis of death rates in the general population would have been only four. Leukemia is cancer of the white blood cells.

Four deaths were attributed to aplastic anemia, where 0.2, or less than one death, would have been expected. Aplastic anemia, when it appears in radiation workers, is probably usually a form of leukemia known as splenic leukemia, in which there is an excessive number of white cells in the bone marrow but not in the circulating blood.

There were five deaths from multiple myeloma, c. o.m, pared with one death expected. Multiple myeloma is a cancer of the plasma cells—the cells which may make antibodies. This is the first evidence that multiple myeloma may result from radiation exposure, Dr. Lewis pointed out.

Biologist Lose

He determined that the high death rates from the diseases among radiologists cannot be due simply to more accurate diagnosis in this group of medical specialists. It was shown in the following manner:

Other investigators have shown that one particular kind of leukemia, chronic lymphatic leukemia, either is not induced at all by radiation or requires larger doses of radiation for its induction than do other forms of leukemia. If the high death rate from leukemia in radiologists had been due merely to more accurate diagnosis of this group of diseases in radiologists than in the general population, then it can be calculated that three or four of the 12 deaths from leukemia in radiologists should have been of the chronic lymphatic type. Actually among the 12 deaths none was attributed to this type of leukemia.

In other words, all of the 12 deaths were from leukemias belonging to the types believed to be inducible by radiation. Hence Dr. Lewis concluded that radiation, rather than accuracy of diagnosis, is probably responsible for the high death rate from leukemia in radiologists.

Catholic Priest

No Scientific Dogma

At this point, the audience was allowed to ask questions which Father Lasser attempted to answer in his informal manner. He particularly stressed the idea that the Church has no dogma concerning science. His liberal viewpoints on questions of evolution, the literal interpretation of the Bible, and the Old Testament miracles surprised many.

Next week, there will be no program; it has been postponed until next month. However, two weeks from now the series will continue with a speaker representing the Buddhist religion.

BOD Meeting

(Continued from page 2)

held in about two weeks. They decided that this year a few local charities could be supported instead of the usual big national drives. The World Universities Service will likely be continued, and the Pasadena Community Chest and the Los Angeles Big Brother Association will be investigated as possibilities.

Something wonderful's happened to Ford Motor Company! Under the freshest styling seen in years, there's a new kind of durability and vigor that meets the demands of today's and tomorrow's driving conditions.

What's the secret? Quality engineering for total performance. Quality engineering so outstanding that Ford Motor Company received the NASCAR Achievement Award for engineering excellence which "superbly combines the prime essentials of great automobiles—performance, reliability, durability, comfort and safety." Total performance makes a world of difference. Bodies and frames are solid and quiet even on the roughest roads. The ride's so smooth, so even-paced, it seems to straighten the curves and shorten the miles. And nothing matches the spirit, sparkle and stamina of advanced Ford-built V-8's and thirsty Sixes. Total performance is yours to enjoy in all our 1964 cars—from the frisky Falcon to the matchless Lincoln Continental.
CALIFORNIA TECH

Thursday, January 16, 1964

Frosh Fall to Oxy Pomona, CHM Win

The frosh team showed improved playing, Tuesday, as they lost to Oxy 58-43. Using ball control combined with hust­le on the boards, Tech led through the half, 20-23.

In the second half, though, the Occidental frosh hit on several consecutive driving shots. This gave them a substantial lead from which the Tech frosh were never able to recover. Leading scorers for Caltech were Gray Jennings with 15 points, Dick Williams with 11, and Don Shatt with 10. The Caltech frosh played twice last weekend but it looked as if they were using the same script for both games. After losing to Claremont-Harvey, Mudd, 72-46, on Friday night, the frosh travelled back to Pomona, only to drop another one, 84-48.

Tower of Power
At CHM on Friday, Tech came up against a very tall squad. CHM controlled the boards throughout the entire game. Tech found itself getting only one shot at the basket each time they brought the ball down the court. Several times they didn't even get a shot as they lost the ball on poor ball-handling.

(Continued on page 5)

Oxy Clobbers Tech; Hoopsters Drop Three

Caltech was outscored, out­scored, outrebounded, and out­played as Occidental spoiled the Tech basketballers in the third straight league game Friday night. The Oxy machine just kept rolling as Tech fell to an embarrassing 95-58 defeat.

Tech trail behind quickly at 11 and 16 in the first half. By the time eight minutes had gone by, Oxy had amassed a 24-point lead. This set the pattern for the game as Oxy soon had the lead up to almost 35 points with only 1:06 remaining in the half. This slow start for Tech was due to an abundance of fundamental errors.

The Tech ball-handling was miserable. The offense was very slow and fell prey to numerous fast breaks by Oxy. These mistakes wouldn't have been so embarrassing had the Tech frosh not been as bad all year.

The margin at the half was 25 points as Oxy led 42-17.

The second half seemed even more dismal as Oxy exploited Tech's result on injury. A 29-point lead was opened up by the middle of the second half and the game ended with the same margin at 56.

Despite the poor showing, it must be said that this Oxy team was the best the Tech team has come up against all year. Oxy didn't really have height, but their relatively short players showed amazing rebounding abilities. The zone press was relented and probably had a lot to say in the poor Tech show­ings.

Dick Burgess and John Tuck­er led Tech scorers with 13 points.

Playing twice last weekend, the Tech backcourters dropped a close one and got walloped in another. On Friday night, the CHM squad outscored Tech by 70-42 in a game marked by num­erous fouls and what seemed like poor officiating. Tech seemed to get the worst of these calls as they scored five more field goals than CHM, but were out­scored at the free throw line by fifteen.

CHM Gains Lead
Tech started slowly and CHM widened a lead that was as much as seventeen during the first half. At the close of the half, though, Tech made a clos­ing surge and narrowed the margin to nine points at 40-31.

Oxy scored the only 6 points of the second half, and CHM continued to lead throughout the second half and even to close the gap to 69-64 with several minutes to go. At that point, both coaches substituted liberally and the final score wound up at 85-70.

Darbs Upset Flems In Interhouse Debut

At Pomona on Saturday night, the Darbs upset the Flems as top seeded Fleming was upset by previously unheralded Darby. 24-21. Darby set the pattern of the game early as they stopped the Big Red in their first series. On their first play from scrimmage, John Vitz took a pass from Jerry Gowen and scooted around the Fleming secondary to score. This was the first of three scores for Vitz.

Both teams traded scores freely until Darby held a 24-14 ad­vantage with seven minutes re­maining in the game.

At this point, Fleming started a drive which ended on a John Nady pitch for the score. With 4'4" minutes left, Darby took over the ball and proceeded to try to hold on to their advan­tage. Failing in their first down attempt, Darby relinquished the ball with 2'6" minutes left. However, Vitz intercepted a des­peration toss by Nady and Dar­by once more had the ball.

Again, the Darb attack stalled and Fleming got the ball for one more play. This failed though as the down and out toss was caught out of the end zone and time ran out.

In the other game of the day, Loyd bested Buckner 21-6. Al Gill­leps had trouble finding the mark with his long series in the first half. He began to hit in the second half as his receiv­ers (Continued on page 5)

Oxymoronology: It's Out there!

The Interhouse football season opened with a bang on Monday as top seeded Fleming was upset by previously unheralded Darby. 24-21. Darby took a lead early and never relinquished it. On their first play from scrimmage, John Vitz took a pass from Jerry Gowen and scooted around the Fleming secondary to score. This was the first of three scores for Vitz. Both teams traded scores freely until Darby held a 24-14 ad­vantage with seven minutes re­maining in the game.

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Frosh Roundball (Continued from page 4)

CHM found itself able to take almost as many shots as they needed. As a result, Tech got off only half as many shots as CHM did.

After falling behind, 49-23, at halftime, Tech matched CHM shot for shot in the second half, but finally succumbed by the 77-49 margin. Gray Jennings led the frosh with 15 points. Ed Ed followed him closely with 16.

It was the same story against Pomona as Pomona's height enabled them to control the game. Pomona put the game away in the first half as they ran up a 54-46 halftime advantage. However, Tech kept the game from being more of a rout than it was as they again appeared to come to life in the second half. They made fewer mistakes and played Pomona an even game. Jennings again was high scorer with 18, followed by Rick Williams with 10 points.

The frosh get another crack at CHM tomorrow night at 6:30.

M.S. and Ph.D. Graduates

TRW's Space Technology Laboratories presents its credentials to you

You are invited to discuss opportunities with members of our technical staff when they visit your campus on January 23-24

Each year at TRW's Space Technology Laboratories (STL), a limited number of new graduates at the Master's and Doctoral level are invited to join STL's staff of outstanding scientists and engineers. Graduates in the aeronautical, electrical and mechanical engineering, physics and mathematics disciplines are needed by STL to maintain and expand its capabilities in missile and spacecraft research, development and fabrication.


STL will assist you in your career planning by encouraging you to continue your development through the many educational opportunities offered by major colleges and universities in the Los Angeles area. You may participate in STL's Development Programs, as you assume greater responsibilities.

Please make arrangements with your Placement Office for an interview; or you may write College Relations, Space Technology Laboratories, One Space Park, Redondo Beach, California. STL is an equal opportunity employer.
More Campuses
(Continued from page 10)

to this problem. They are very good-looking girls on this campus.

College Life Is Fun
"So I noticed. At any rate, Flicker took me around the var­
ya buildings. But we didn't go into just the Ad­
ministration building, to get an application blank."

"Oh, are you going to apply here?"

"Definitely."

"Why?"

"Actually, it all started Friday night. It started to us. We felt, "Well, I think we went to every side of campus."

"We did." Flicker informed us. "They try to give us a feel for the royal snow job. I borrowed proof from a sorority sister, and the rounds we did made me realize."

Old Pro
"The first place we went to was this place called the Orange," the senior said. "It had some people drinking. And we saw people drinking. And we went to this bar next door to the Regent Theatre, the Regent Bar. It was filled with drama majors. And everybody was really high. It seems that they had just finished playing some show."

"And after anything?"

"Then I was up until 3 a.m. talking to the girls in Flicker's sorority."

"Dirty rushing a year in adv­
ance?" we asked.

Flicker didn't say a word.

Intercollegiate Atmosphere
Zelda continued. "The foot­
hall game was really great. We were sandwiched in between these two fraternities. And they were throwing toilet paper every time we got a touchdown. Not only that, but they were drinking beer like there was no tomorrow."

"There isn't. Tomorrow is Sunday. And they can recupera­
tate," we informed her.

"Then there were all these hands. We don't dance like that in my high school. I never saw anything like that before in my life."

"What happened Saturday night?"

"We went to two formals and a barbeque party."

"Then we went to this other place," Zelda continued. "It was on a golf course but I never saw anyone playing golf. I only saw people drinking. And we went to this bar next door to the Regent Theatre, the Regent Bar. It was filled with drama majors. And everybody was really high. It seems that they had just finished playing some show."

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"And after anything?"

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Fake Kidnapping
(Continued from page 1)

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