

## Sturtevant Attacks Noise Polluting Shock Waves

The effective curbing of the racket from motorcycle engines, from the siren scream of jet engines and perhaps even from sonic booms may not be so far off, after all.

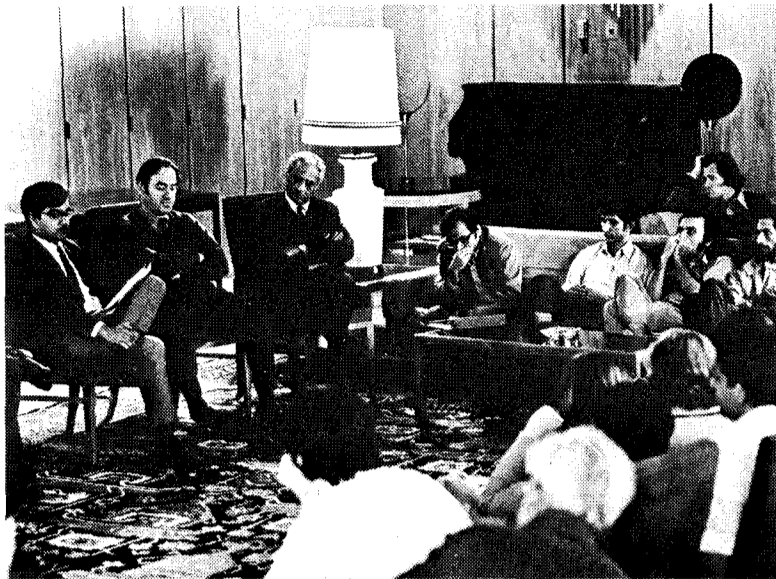
Aeronautics engineer Bradford Sturtevant has launched a unique attack on these noise-makers, and explained today:

"The feature that they all have in common is the occurrence of shock waves within the noise-maker itself. The shock wave: dissipate as they propagate into the atmosphere by degenerating into sound waves. Our objective is to break up the shock waves at the source rather than trying to muffle the resulting sound waves."

Sturtevant's attack is facilitated by his unexpected discovery that shock waves are developed in an open-ended acoustical pipe that is much like the exhaust pipe of a gasoline engine. With the aid of the pipe, he is seeking ways to liquidate the shocks. He places wire mesh and metal rings of various configurations in the pipe to test their effects on the shock waves that are generated at the rate of up to 6,000 per minute.

Sturtevant's shocks are produced by the piston of a motorcycle engine that uses the three-inch-diameter acoustical pipe as its cylinder. While it was known that such an acoustical pipe could produce shocks if the pipe were closed at both ends, it was thought that if one end remained open, the energy would dissipate too quickly into the atmosphere to make shocks. However, Sturtevant found that such an arrangement can produce powerful shock waves. In fact, they are so strong that a person's ear drums would rupture if he stood close to the pipe while it was generating the waves.

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Huttenback, Islam, and Dhawan take questions from the audience on Bangla Desh. Photo by Ctein.

## Pax Indianicus

# Techers Discuss Subcontinent's Future

By Claude Anderson

Dr. Robert Huttenback foresees considerable American aid to Bangla Desh in the near future. During a seminar on Bangla Desh last Thursday in Winnett lounge, the Caltech Humanities Division Chairman said, "As far as our relations with China are concerned, Bangla Desh doesn't amount to a hill of beans."

Dr. Huttenback, Dr. Jamal Islam, Visiting Associate in Physics from Bangla Desh, and Dr. Satish Dhawan, Visiting Professor of Aeronautics from India led the seminar which was hosted and moderated by Belal Baaquie, a Caltech senior from Bangla Desh. About 70 people listened and reacted (some rather vehemently) as the past, present, and possible future of Bangla Desh were discussed.

The program began with an introduction by Dr. Huttenback. Dr. Islam recounted the chain of events leading up to the outbreak of fighting last March. Then the present conditions in the Indian Subcontinent and their implications for the future were discussed.

Dr. Islam predicted a parlia-

mentary government similar to those of the Scandinavian countries with no immediate power struggle. He sees no move for a Bengali reunification, as there is no impetus for the separation of West Bengal from India. Dr. Huttenback noted that the agricultural potential for Bangla Desh is good, but there is little prospect for industry. He

foresees a lasting peace since there is no longer a balance of power on the subcontinent. "Maybe this is not the best reason for peace, but it is clearly one that works."

Participants in the seminar questioned American involvement in the conflict. Dr. Huttenback said he couldn't understand how we could support a theocratic,

Continued on Page Two

## Many Ways

# Service League Helps You

The Caltech Service League was established 23 years ago by parents and friends of Caltech who wished to be of assistance in promoting the health, welfare and happiness of the students. The Thanksgiving turkeys and Christmas boxes of homemade cookies, fruits and other treats for those who remained in the student houses were furnished by the League. The departments of service and the respective chairmen are listed here for students' convenience:

**Health Center**—Mrs. Joe Salem, 797-6917. (Light-diet foods, pa-

jamias, robes, magazines and newspapers for convalescent students.)

**Well-Baby Conference**—Mrs. John Murray, 799-4223. (Held twice each month for married students' children to age two, for free-of-charge immunizations, monthly check-ups, behavior and feeding problem discussion with an outstanding pediatrician.)

**Baby Furniture Pool**—Mrs. Edward Hughes, 795-3695. (Cribs, playpens, high chairs, strollers and other equipment on a loan basis.)

**Student Welfare**—Mrs. Ronald

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## News Briefs

# ASCIT Elections Postponed One Day

The date of the upcoming ASCIT elections has been pushed forward to Friday, February 11 so the candidates' speeches won't have to be published during midterms. Nominations will still be closed January 31 at noon.

### EQL Seminar McCrackin To Speak

There will be an Environmental Quality Laboratory seminar this Friday (tomorrow) in 128 Baxter at 10:15 a.m. on "Obtaining Human Values for Use in Engineering of Large Energy Systems for Spaceship Earth". The speaker will be Frank McCrackin, the environmental planning manager for

Southern California Edison. The talk is one of several recently sponsored by the EQL and Environmental Engineering people on global energy system considerations.

### Gay Group Sponsors Movie

The Caltech Gay Discussion Group will sponsor a showing of "Some of Your Best Friends Are . . ." Thursday, February 3, at eight p.m. in 134 Baxter. All interested members of the Caltech Community are invited to attend.

### Radio Club

There will be a meeting of the Caltech Radio Club Wed-

nesday, February 9, in Club Room 2 at 7:30 p.m. New keys for the new lock will be distributed and the auction on February 17 will be planned.

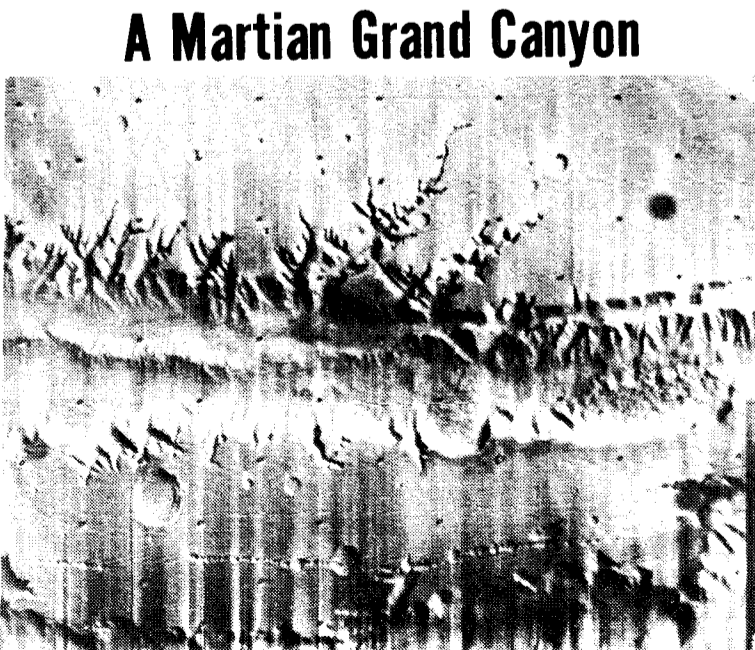
### Harris Planning Group Meets Today In Y

The host committee for David Harris will meet today in the Y lounge at 4:00. Anyone who has ideas concerning his visit to campus February 15 should attend this meeting.

### Hillel Party This Sunday

Caltech Hillel invites you to a lunch and Israeli wine-tasting

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Pseudo-stream system in Tithonius Lacus, 300 miles south of Martian equator, is actually caused by crust deformations and wind action. Photo courtesy of your friendly, neighborhood Mariner dealer.

## Service League

Continued from Page One

Ross, 286-2779. (Assistance with individual emergencies, financial or personal.)

**Student Activities**—Mrs. Robert Gray, 797-8560. (Assistance with student social events in the form of flower arrangements, cookies, etc.)

**Publicity**—Mrs. C. L. Moyer, 281-1498.

**President of the League**—Mrs. Kermit Jacobson, 793-8943.

Caltech Service League also has provided for special student needs. These have included pianos for the student houses, dark room equipment, musical equipment and game room equipment for Winnett Student Center, financial assistance for the Band, the Glee Club and the YMCA, and furnishings for the convalescent room at the Health Center.

## Dreams

Continued from Page One

appears that no two dreams are ever exactly the same.

People seldom seem to react to outside stimuli while dreaming. The effects of such stimuli are generally peripheral and the maximum effect seems to be incorporation of the stimulus into an existing dream situation. Similarly, conscious events seem to stimulate dreams only when they effect the subject emotionally.

Today, it seems that dreams are a symbolic method of relieving emotional frustration. By interpreting them, psychologists can often find those learn much about their subjects problems. But much research needs to be done on one of man's most universal traits.

## News Briefs...

Continued from Page One

party in celebration of Tu Bshevat, the Jewish Arbor Day, on Sunday, January 30, 12:30 p.m., at the home of Louise and Gary Lorden, 2020 Oaks Place, Arcadia. R.S.V.P. 355-1625. Rides available.

## Bangla Desh

Continued from Page One

military government like Pakistan unless the U.S. administration was annoyed by India's rejection of an early, peaceful settlement. He also cited China's good relations with Pakistan and the touchiness of that situation as we try to improve our relations with China, but discounted that as a reason for American involvement. But he does think that U.S.-India relations will improve and will be a test of Indian tolerance. Dr. Islam added that Bangla Desh has bitter feelings toward the U.S. administration, but is glad for the support of so many Americans.

## Shock Waves...

Continued from Page One

The discovery that shocks are produced with one end of the pipe open, "even with so smooth a driving action as that of a reciprocating piston, indicates that shock waves may be much more prevalent in sources of intense noise than had been realized," the Caltech engineer said.

The research is supported by the National Aeronautics and Space Administration.

## ASCIT of Claypool

# ASCIT Breaks the Bread

By Gavin Claypool

The ASCIT Board of Directors, during their weekly Monday night crisis, distributed the corporation's excess funds that remained after this term's money lottery.

Representatives from five clubs appeared before the BOD to plead their case for further funding. A 90-minute haggle wound up with these dispensations: Band . . . . . \$200  
ASCIT Musical . . . . . \$250  
CEAC . . . . . \$175  
Glee Club . . . . . \$340

Newman Club . . . . . \$50  
Indians Group . . . . . \$100  
ESC . . . . . \$164  
(the amounts include the allocations from the cards distributed at registration.)

Before divvying up the pie, the Board set aside \$250 for a carry-over to the next BOD. A \$500 carry-over from first term was part of the \$1300 excess in the general fund.

In other business, the BOD set the dates for closing nominations (noon, January 31) and for the ASCIT elections (February 11).

## Euripides, Capote Bill at Esquire

The Esquire Theater is currently running two films, *The Trojan Women* and *Trilogy*. The reader is advised to time his arrival to coincide with the start of *Trilogy*. The film was based on three shorter works by Truman Capote. If the actors were not of such high caliber, the film would be a disaster, but as it is, the film is truly magnificent. *Trilogy* is worth the entire admission price.

The same cannot be said for *The Trojan Women*. Based on Euripides' play, the film retains

little of the majesty of classic Greek drama. In spite of good individual performances, the film bogs down, and the audience can hardly wait for it to end. The film's makers dedicated it to those who protest war, but the true message of the film is not to abstain from war; it is to win any and every war in which one becomes involved. By seeing *Trilogy* first, you won't feel compelled to sit through the second feature, and if you do leave after *Trilogy*, you won't miss anything.

—Paul Levin

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## The CALIFORNIA Tech

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Admission: 50¢ (cheap) for ASCIT members and their guests; \$1.00 for anyone else (NOT OPEN TO THE GENERAL PUBLIC)

NEXT WEEK:

## WEST SIDE STORY

(ADVANCE TICKETS AVAILABLE 226 PAGE)

Beckman Happenings**Lill to Tinkle the Ivories**

By Jeff Mallory

John Lill, winner of the 1970 Tchaikovsky International Competition in Moscow, will please the penchant for piano perfection with feats of digital dazzle in Beckman Auditorium tomorrow, January 28, at 8:30. Lill, a piano virtuoso in any sense of the word, will present *Sonata in D major, K. 576* by Mozart, *Sonata No. 6 in A major, Opus 82* by Prokofiev, *Kinderscenen, Opus 15*, by Schuman and *Scherzo in B minor, Opus 20* and *Ballade in F minor, Opus 52* by Chopin.

He started at age four, is presently only 27, and has performed in all the major concert halls in London, represented Britain at Expo '67 and has made several tours through Asia, Russia and the Continent. He is now on his first tour of North America. Tickets are \$4.50, \$3.50, \$2.50, and \$1.00 for Techers.

Ramo Auditorium's *Museum Without Walls* film series swings into action next Wednesday and

Thursday, February 2 and 3, with two hours of Picasso and Goya. The series, designed to give the audience some insight into the complexities and intimacies of a "masterpiece", will first present *Picasso: War, Peace and Love*, an exploration of the genius of the man and his work. The movie includes some unique live sequences of Picasso at work in his studio in France.

The second feature, *Goya*, focuses on the collection of Goya's works in Madrid's Prado Museum. His wide variety of modes and subjects, from portraits to cathedral frescoes, as well as his famous "black paintings", will be the steps the film takes in tracing the artist's development.

The two films will both be shown on Wednesday and Thursday in Ramo, starting at 8:00 p.m. This is the first of five programs in the series, and season tickets (\$10.00, \$8.00 for students) are on sale as well as single event tickets (\$2.50, \$2.00 for students).

audience**the house of instant insanity**

by Phil Neches

Welcome to the private life of Artie Shaughnessy, would-be song writer and part-time zoo-keeper. Artie's life — and welcome to it — forms the center of the action in *The House of Blue Leaves*, currently playing at the Huntington Hartford Theater in Hollywood.

We enter Artie's life at about five in the morning on the day the Pope is to visit New York, to find Artie asleep in the living room, in a sleeping bag. Artie, so it appears, has troubles.

One of them is his wife, Bananas — so called because it quite accurately describes her state of mind. The other is his girlfriend of two months, Bunny Flingus, whose cooking would make Escofier sit up and take notice. Bunny will do anything for Artie except cook for him, hence his fascination for her. Played with all the gusto and kookiness the role demands by Alice Ghostely, Bunny manages to complicate life for just about everyone.

Bananas has her revenge on Miss Ghostely for stealing her husband, however, by stealing the show. Although not given top billing, Katherine Helmond won the greatest applause from the audience for her portrayal of

the delightful lunatic who is the only real center of sanity in the entire play. From her first entrance (on all fours), Bananas is the center of the audience's attention.

Artie has more troubles, which he somehow keeps all in the family. His son, Ronnie, has gone AWOL in order to see the Pope. In his big soliloquy, Ronnie (played by Dennis Dugan, a talented newcomer) sticks out his tongue at the audience. After that, he says to the patrons in the first row, "I'll bet you paid seven or eight dollars to see me do that." Naturally, such behavior only shows Ronnie to be the product of his environment, of which you should now have a good idea.

Despite his seeming detachment from the events around him, no character is more clearly responsible for them than Artie, played by Harold Gould. Artie fancies himself an aging young talent. To fulfill his musical aspirations, he plans to send Bananas to the funny farm, and escape with Bunny to Hollywood where his old friend, Billy Einhorn (Alan Dexter — recently the President in Jules Feiffer's *The White House Murder Case*), a big producer, will make Artie's songs famous. Artie never faces

the one thing which has stalled his dreams for twenty years: that his songs sound like escapees from a vaudevillean home for demented tunesters.

Is it any wonder that when the proverbial man in the white coat comes for Bananas, he scoops up the wrong character?

Hardly a television-style situation comedy, *The House of Blue Leaves* delights one second, and turns serious the next, only to roll the audience into the aisles the second after that. The play borrows too much from the avant-garde theater to be conventional comedy, but retains enough theatrical convention to keep the audience with it. *The House of Blue Leaves* will hardly prove to be a classic, but nonetheless provides an evening of offbeat and enjoyable theater.

*The House of Blue Leaves* will be at the Huntington Hartford Theater, 1615 North Vine Street [between Sunset and Hollywood Blvds.], through February 12th. Call the box office [462-6666] for information about student ticket discounts.

*Nana Mouskori and the Athenians* are giving a special, extra performance on Sunday, March 5 at 3:30. Tickets are on sale now and going fast.

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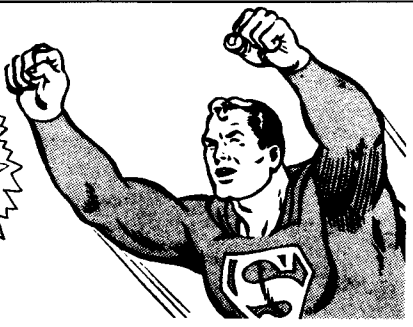
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**Hoopsters Win 56-55 Thriller From Pac Christian**

Caltech took a thrilling 56-55 victory from Pacific Christian on the hardwoods here Saturday. With a minute to go, Brad Young of Pacific Christian scored to give them a 54-53 lead. Caltech came back with a basket by Bleck and a free throw by Cooper to take a 56-54 lead. After a free throw by Pacific Christian made it 56-55 Pacific Christian had possession of the ball with seconds to go. A missed six foot shot at the end ended hopes of a victory and left Caltech with their third victory of the year. Their overall record is 3-9.

The Pacific Christian game evened out the weekend for the Beavers who had lost the night before to Whittier 97-57 here at Caltech. In that game Whittier steadily poured it on, leading 54-27 at halftime, and the game was really never much of a contest.

Against Pacific Christian, Caltech had four men in double figures. Mark Bleck was the scoring leader that night with sixteen points, while Keenan, Meadows, and Prohaska all three in ten counters. Against Whittier the scoring was a little more sparse: Keenan had 16, Feely 10, and Bleck 8.

The junior varsity game against Pacific Christian resulted in the first junior varsity victory of the year. The jayvees' 65-38 victory snapped an eleven game losing streak in an impressive manner. Mike and Mark Bandhauer carried the team with 22 and 15 points respectively.

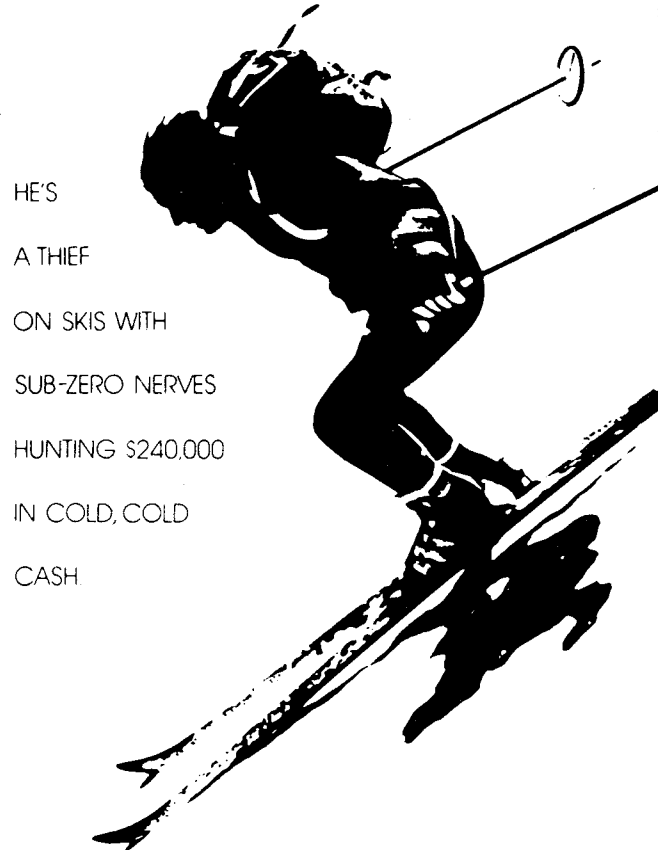
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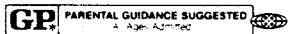


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**MARCH 1** | **2**  
RAMO AUDITORIUM 8 p.m.  
MUSEUM WITHOUT WALLS, part of series of art films. \$2.50, students \$2.  
Caltech students \$1.

**8**  
BECKMAN AUDITORIUM  
8:30 p.m. Encounters Series: GYORGY LIGETI, Hungarian-born composer. \$3.50, students \$2.  
Caltech students \$1.

(FEBRUARY)  
**8**  
BECKMAN AUDITORIUM  
8:30 p.m. Encounters series: TORU TAKEMITSU, composer. \$3.50, students \$2.  
Caltech students \$1.

(MARCH)  
**11**  
BECKMAN AUDITORIUM  
8:30 p.m. OSCAR GHIGLIA, world renowned guitarist.  
**F** Caltech students \$1.

**MARCH 12**  
RAMO AUDITORIUM  
2 p.m. and 7 p.m. MARIA CALLAS' first dramatic movie—"MEDEA" directed by Pier Paolo Pasolini. \$2.50. Caltech students \$1.

Use your own waxer!

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