Dreams Lecture Packs Beckman

By Peter W. Beckman

People most be interested in a subject if they not only completely fill Beckman Auditorium, but leave a line of people who couldn't get in trailing halfway around the building. This occurred Monday evening when Prof. Louis Begler lectured on "Implications of Recent Research on Dreams.

Of course, the things that happen to people when they sleep has fascinated mankind throughout history. In more primitive times, dreams were believed to be messages from the Gods or omens of future events. Important decisions were often gauged by dreams, and a whole symbolism of meanings was created.

With the coming of the the science age, the interpretation of Dreams, and people began to realize that dreams provided a "royal road to the unconscious." 

Do Robots...

The twentieth century saw a proliferation of competing schools of thought about dreams. There were Jungians, neo-Freudians, and a bunch of others who were always fighting for their pet theories.

Then, in 1953, J. Random Grad Student observed that the eyes of sleeping children occasionally moved under their closed lids while they were asleep. It was soon shown that people tended to dream during these periods of R.E.M. (rapid eye movement).

Other experiments have shown that sleep is roughly divided into two periods. During R.E.M. sleep the eyes move under the lids, the body is limp, and brain activity is quite similar to that while awake. In non-R.E.M. sleep the body has a double of muscle tone, the eyes do not move, and the brain activity is much less.

Dream of Electric Sheep?

Sleep tends to be cyclic. Periods of non-R.E.M. sleep alternate with periods of R.E.M. The first R.E.M. period is generally 8-10 minutes long and they generally grow longer as the night progresses. The dreams experienced tend to get more "dreamlike" in the later periods. The first dreams are generally fairly straightforward take-offs of conscious experiences, while the later dreams are generally much more vivid and unusual.

A Martian Grand Canyon

Photo by Ctein.

The effective curving of the road for motorcycle engines from the sirens scream of jet engines and perhaps even from sonic booms may not be so far off, after all.

Aeronautics engineer Bradford Sturtevant 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-making equipment. A 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 muzzle 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 open at both ends, it was thought that if one end remained open, the energy would dissipate quickly into the atmosphere to make shocks. However, Sturtevant found that such an arrangement could 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.

continued on page two

Sturtevant Attacks Noise Polluting Shock Waves

The Caltech Service League continues to meet weekly to discuss service projects for students. The last meeting was held Feb. 3, 1972, when the host committee for David Harris, 795-3623, (Held twice each month for married students: children to age two, for free-of-charge immunizations, monthly check-ups, behavior and feeding problems, and 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 chairs are listed here for students' convenience:

Health Center--Mrs. Joe Salem, 797-6917. (Light-diet foods, pajamas, robes, magazines and newspapers for convalescent students.)

Wed.-By Committee--Mrs. John Murray, 799-6223. (Held twice each month for married students: children to age two, for free-of-charge immunizations, monthly check-ups, behavior and feeding problems, and the health, welfare and happiness of the students.)

Baby Furniture Pool--Mrs. Ed. Hughes, 795-3695. (Cribs, pajamas, robes, magazines and newspapers for convalescent students.)

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continued on page two

News Briefs

ASCIT Elections Postponed One Day

The date of the upcoming ASCIT elections has been pushed forward to Monday, February 11 so that one candidate's petitions won't have to be published during mid-terms. Nominations will still be closed January 31 at noon.

EQL Seminar

Meetings: To Speak

There will be an Environmental Quality Laboratory seminar today, (Friday) at 12:00 noon. Baequire, a Caltech senior from the Scandinavian Division, will speak on "Belief in the Scandinavian Community is invited to attend.

Radio Club

This Saturday

Caltech Radio invites you to a lunch and Israeli wine-tasting.

Caltech Hillel invites you to a meeting on the theme of "Iran." The host committee for David Harris, 795-3623, (Held twice each month for married students: children to age two, for free-of-charge immunizations, monthly check-ups, behavior and feeding problems, and the health, welfare and happiness of the students.)

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**Service League**

Continued from Page One  
Ross, 286-2779. (Assistance with individual emergencies, financial or personal crises. Student Activities—Mrs. Robert Gray, 797-8560. (Assistance with student needs, symposiums, or in the form of flower arrangements, cookies, etc.)  
Publicity—Mrs. C. L. Moyer, 281-1949.  
President of the League—Mrs. Kermit Jacobsen, 793-8943.

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Continued from Page One  
party in celebration of Tu BiShvat, the Jewish Arbor Day, on Sunday, January 30, 12:30 p.m., at the home of Louise and Gary Gordon, 2020 Oak Place, Arcadia. R.S.V.P. 355-1625.  
Rides available.

**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 affect the subject emotionally.

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

**ASCIT of Claypool**

**ASCIT Breaks the Bread**

By Gavin Claypool  
The ASCIT Board of Directors, during their weekly Monday night dinner, distributed the corporation's excess funds that remained after this term's money lottery. Two representatives from five clubs appeared before the BOD to plead their case for further funding. A $300 carry-over wound up with these dispensations: Bond $200  
ASCIT Musical $200  
CEAC $175  
Glee Club $340  

**Eupirides, Capote Bill at Esquire**

The Esquire Theater is currently running two films, The Trojan Women and Trilogy. The reader's attention was caught by the arrival to coincide with the start of the film. The film was based on three shorter works by Truman Capote. If the movie 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.

**Shock Waves...**

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By Jeff Mallory

John Lill, winner of the 1970 Tchaikovsky International Competition in Moscow, will perform the Concerto for Piano and Orchestra. "It's a very rich composition," Lill said. "It has this kind of depth to it which is very unusual in Chopin's music."

Lill said he will perform Chopin's Piano Concerto No. 2 in F minor, Opus 21, with the Los Angeles Philharmonic under the baton of conductor Zubin Mehta. The concert is scheduled for Thursday, Jan. 19, at 8 p.m. in the Walt Disney Concert Hall in downtown Los Angeles. Tickets range from $25 to $150.

Lill said he has performed in many different countries and has been able to see many different cultures. "I think it's a very enriching experience," he said. "It's a great way to see the world and meet new people."

Lill said he enjoys performing Chopin's music because it has a lot of variety and emotion. "His music is so expressive and beautiful," he said. "It's a wonderful experience to play."

Lill said he looks forward to performing with the Los Angeles Philharmonic and conductor Zubin Mehta. "I'm really excited about this opportunity," he said. "I think it's going to be a great experience."
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 Bickle 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 Bickle was the scoring leader that night with 22 points, while Keenan had 16, Feely 10, and Bickle 8.

The junior varsity game against Pacific Christian resulted in the first junior varsity victory of the year. Thejayvees' 63-38 victory snapped an eleven game losing streak in an impressive manner. Mike and Mark Bandhauer carried the team with 22 and 15 points respectively.