

he DID come
out alive...

The CALIFORNIA Tech

Volume LXXVI

damn it!

Number 9

Interhouse Makes No Splash

by Alan Silverstein

It didn't rain this year! Not that it would have mattered much—past years of traditional rain have taught Techers to build Interhouses that are waterproof, i.e., mostly indoors, and so it was this year.

Even more astounding and unusual, Dabney came out of hibernation and had an Interhouse construction for the first time in years, possibly owing to the large number of frosh in the house.

None of the Interhouses were particularly outstanding, as evidenced by the fact that all were constructed in two weeks or less, but almost all were enjoyable and successful. Parent's Day also fell on the 16th so turnouts were if anything better than usual.

Blacker gambled again on a casino and did well with Casablanca, featuring some expensive foliage borrowed from B&G, a bar, piano playing and a smoky atmosphere.

Dabney was a nightclub with a live band, painted people and fluorescent backdrops. I understand this was the result of independent construction.

The annual Fleming play was a superb satire-takeoff on the lives of two Techers, entitled "Four More Years." The humongous pinball machine in their lounge was a neat idea, but it wasn't finished till the last moment, and worked too slowly and randomly for most enthusiasts.

The Ozarks town of Lloydston wasn't very populated so I didn't spend much time there. I

Uneventful ASCIT Meeting Transpires

by R. Beatty

The ASCIT BOD tried again last Friday. As could be expected, cautiously little was transacted. Ed Rea and Dave Murdock were appointed Student Garage and Gameroom Chairmen, respectively (celebrate them, frosh!). Additional Mudeo expenses were approved unanimously on request from Martin Teintze, Junior Class President.

There was some interesting discussion on the ideal function of a grading system and how the CIT setup reflects this; comments from students would be helpful in examining this. The ASCIT Musical (rah!) was the next topic of conversation; at this afternoon's meeting (4:00 p.m. in Winnett Lounge) there will be further discussion on this matter. Basically, a few people questioned calling the production the "ASCIT" musical if some non-ASCIT people were involved.

Then, as quickly as it started, the meeting was over. It could have been worse.

hear there was a live band and a bar inside, though.

Page played it smart this year—the only moving parts of Pegasus II were the dancers in the discotheque, who kept moving well after the bar closed at 2 a.m. Silver mylar and gigantic light organs on each wall created an amazing dance hall, with blacklights posters, munchies and a laser on the way in.

A friendly rural atmosphere was the Ricketts theme, involving gallons of free ice cream and cider, square dancing with a professional caller, and a straw-covered barnyard. The Pot became an authentic echoing bottomless well and there was a regulation size outhouse with a swinging door, which mysteriously translated its axes to Harold Brown's front yard later.

It took three years, but Ruddock finally had a working waterfall. After passing through an excellent nighttime desert scene and visiting Ali Baba's treasure cave one entered a marketplace out of the Arabian Nights, featuring free foodstuffs,

elaborately costumed natives, professional bellydancers, mud pottery and a juggler.

A week later, Interhouse is almost cleaned up, and it still hasn't rained. Oh, well, there's always next year.

Dr. Brown Installs New Plumbing

The festive fun and fantasy of Interhouse glimmered last Saturday, but as the witching hour passed, the glimmer became slightly tarnished when some scurrilous scoundrels absconded with Ricketts' rustic outhouse, which some claim was B&G's latest innovation. The early rays of the morning sun illuminated the now-vacant courtyard, but it was not until noon that the absence was discovered and Security notified. The location of the missing outhouse was soon discovered, though, as it appears the scoundrels had tired of their burden, and deposited it on President Harold Brown's lawn, to greet passers-by with a cheery half-moon.



One of the pleasures of Interhouse night was Ann Orel, one of Ruddock's harem girls. More Interhouse photos on page six.
Photo by Yoshida.

Mayer Sweeps Dirty Master David's Office

by Gavin Claypool

Dr. James Mayer, professor of electrical engineering, has been selected for the position of Master of Student Houses beginning next fall.

He will replace Fr. David R. Smith, associate professor of English, who has served as Master for the past six years.

The Faculty Committee on Student Housing recommended Dr. Mayer's appointment to President



HIMSELF↑

Brown earlier this year, after considering several faculty members for the job. While the selection procedure went on, Dr. Smith was asked to remain an additional year beyond the normal five-year tenure.

"I'm not jumping up and down with ideas," Dr. Mayer said after accepting the appointment last week, "but I would like to get more faculty to know the students."

Dr. Mayer and Dr. Smith have been working closely this year to prepare the new Master for next year. Besides meeting together once a week, they will both attend committee meetings involving the Master's office.

Ragtime Duo Confuse All

Friday, November 15th saw the conversion of Beckman Auditorium, for a little time, into a turn of the century salon. The duo pianists, Paul Hersh and David Montgomery, came in to toss off a little ragtime and a bit more. The bit more was perhaps a bit too much.

One of the first things that the duo said was for the audience to throw away their programs, since they were meaningless. This was not entirely true, since they did accidentally play two pieces listed, and the program did tell who provided the piano. Other than that the program was of little use. It mentioned two overtures which ended up being played, but

otherwise the most correct descriptive phrase in the booklet was that the program would include 'a little ragtime music' in the first half and 'a little more ragtime music' in the second half of the program.

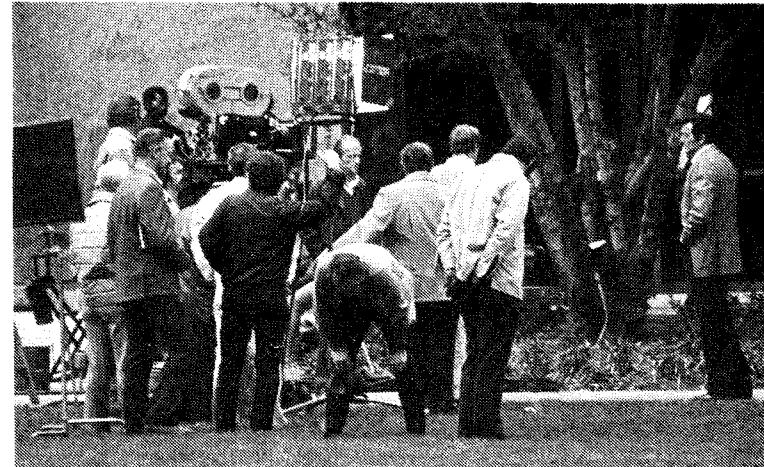
Quite early in the program, David Montgomery played an excellent version of Scott Joplin's "The Entertainer," recently made popular by Paul Newman. For the most part the program consisted of duets, but occasionally there were solos, Montgomery doing rag and Hersh doing more classical music. Unfortunately, there tended to be a breaking of the mood when the duo shifted from ragtime to Chopin or Schubert. Granted

that the more serious music was done well, the audience just was not in the proper frame of mind after listening to the "Wall Street Rag" to immediately segue into Schubert's F Minor Fantasia and back into "The Swipesy Cakewalk."

The two pieces of serious music best received were two overtures transcribed for four hands in a rather flamboyant fashion by Louis Moreau Gottschalk, who apparently spent most of his life on the run from the law and other authorities. (It seems that he lived a rather unusual life.) These two overtures were von Weber's "Overture to Oberon" and the ever famous "Overture to William Tell" by Rossini. In these pieces the duo were not constrained to playing elegantly, and let their showmanship speak for itself.

Continued on Page Seven

Whale Eats Mannix



Mike Connors fumes as directors try to figure out a way to get the whale in the Court of Man out of the scene. Note man in foreground searching for ambergris.
Photo by Bus.

ASCIT Musical Chosen

by Dick Beatty

This year's ASCIT Musical will be *The Student Prince* by Sigmund Romberg. The four-act play describes the college life of the Prince of Karlsberg in 1860 as he arrives at the University of Heidelberg as a freshman.

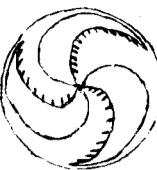
Betrothed from youth to Princess Margaret (whom he has not seen in several years), he falls in love with Beautiful Barmaid Kathie. Lots of drinking songs round this fine show, along with

plenty of relevant college comments like: "You cut their lectures for their dryness; Cato, Plato, Cicero: they all make me sick; higher math only makes us snore."

Bodies are still needed for the chorus and the technical staff: If you have any experience or interest in helping out with any part of the production see Flora in Winnett or call x2157. This will be a good show, so don't miss out.

The Third Wing

The U.S. Trademark



Friday, November 22nd. A simple sort of a day. People in England were just learning that one of their best modern writers was dead, Clive Staples Lewis. The stock market behaved as the market always behaves. There was fighting in Laos. But then, there was always fighting in Laos. Millions of turkeys were being prepared for a few days hence. Schoolchildren, for the most part, were in school. Their parents were, in large quantities, at work in one way or another. It was a simple sort of Friday near the start of the holiday season. I sat at home that morning, annoyed at missing a day of school due to a slightly clumsy shoulder injury. (Well, not that annoyed.)

It was a morning when there was nothing to do but listen to the radio. Music, news, weather, anything to keep the room from being quiet. A news bulletin. One that was being read by an announcer whose composure was slipping badly. "President Kennedy has just been shot in Dallas, Texas. We are trying to get more details."

Just like that. Or, maybe not just like that. It is hard to remember what you hear when you can't believe, or even conceive of what has just been said. It was one of those things where you kept expecting a correction to be broadcast at any moment. There was only one correction to make.

"President Kennedy is dead."

The apparent assassin was caught only hours later, saving the American public the suspense that followed the killing of Lincoln, when it took some time to hunt someone down who may or may not have been Booth. This time, a suspect was caught, and promptly murdered on nationwide television. Seldom has the American public had the opportunity to view such a sight. No matter what his reasons might have been, Jack Ruby managed to seal the lips of Lee Oswald before the courts could learn a thing. And so, there was

"Ask not what your country can do for you..."

John F. Kennedy

1917-1963

THE ASCIT FRIDAY NIGHT MOVIE

The Life and Times of Judge Roy Bean

7:30 p.m. & 9:30 p.m.
in Baxter Lecture Hall

**Admission: 50¢—ASCIT members and
their guests; \$1.00—anyone else**

NEXT WEEK:

Bullitt

Out From Under...

With Freedom You Get Paperwork

Independent Studies is alive and well at Caltech. But what is it? Basically, Independent Studies is an individual option for undergraduates whose programs don't fit into the established options and requirements of the Institute. To enter Independent Studies, you need a well-formulated academic program for yourself and three faculty members who will agree to look after you. You also have to be ready to take responsibility for your own mistakes.

The Independent Studies Program (ISP) has been going on at Caltech for four years, and last year seven undergraduates graduated in Independent Studies. Most of the students entered in their junior and sophomore years. Many of them had excellent academic records; others were in academic difficulty.

Their reasons for entering ISP were many and varied. Some students wanted to avoid specializing; others wanted to specialize more than their option would permit. A large fraction were preparing for professional schools in law, medicine or business and

wanted a broader range of courses than they could get in a single option. Some students created their own course contracts with their professors; others took only standard Caltech courses. In each case the program was created to suit the individual.

If you are interested, you should probably talk to the Chairman of the Faculty ISP Committee, who this year is Prof. Andrew P. Ingersoll (158 South Mudd, extension 2167). His committee has to approve proposals for admission into the program, and they are looking for evidence of a well-formulated plan, seriousness of purpose, and acceptance of responsibility on the part of the student and his three-person committee.

You can also start by approaching a professor whom you would like to have as chairman of your three-person committee. He or she will be someone who can follow your work and serve as your professional advisor. Your committee of three will review your progress each quarter, and must approve

any changes you make in your program. At least two divisions of the Institute must be represented on your committee of three. You can apply to enter ISP at any time during the year.

The Registrar's office has the forms you need for applying. There are two forms—one for a statement of purpose, and one for a list of courses you plan to take. These courses may be standard Caltech courses or your own ISP courses, for which a contract is signed by you and your instructor saying what work is to be done and when. The Registrar keeps records of all your course work at the Institute, including the evaluations of instructors in ISP courses.

There is a difference of opinion over whether the ISP is sufficiently easy to get into. If you have sound, positive reasons for wanting to create your own option, you should be admitted. On the other hand, if your reasons are negative (just to escape a requirement, for example), you should probably appeal for special treatment within an established option. You may also find it difficult to assemble a committee of three. Faculty members generally believe in the established options which they help to run. Therefore you may have to persuade them that your ISP program is justified.

CALTECH FORUM

Dear Ms Horner,

As the person who did the final rewrite on Mr. Angulo's water polo story, and after discussing the matter with one of the editors-in-chief, I felt compelled to write a short reply to your letter. While I very much agree with the general sentiments expressed in your missive, I'm afraid I must defend the article on a few specifics.

Sports articles in this paper have, for a very long time, been an odd mixture of paens and pans, done mostly in a humorous vein when possible, for the reason that it is hard to take major sports seriously here. It was not, and is not, the intent of this paper to imply that females should not take part in athletics. At the same time, it is the duty of this paper to report that which is noteworthy, if not

newsworthy. The only really unusual thing (and, believe it or not, coed contact sports events are still unusual) about the JV water polo game was the introduction of the girl from Redlands. Fouls occur by the dozen in water polo, but few have printable or humorous responses from the crowd. Those mentioned in Angulo's article were thought to be both. They were not printed for the purpose of ridicule, but to expose the relatively light side of an otherwise dismal defeat for the JV team.

It is most unfortunate that you chose to take the article personally, but then, the *California Tech* has always reserved the right to offend anyone. I hope that no permanent damage was done to you.

Sincerely,
—Nick Smith

FRANKLY SPEAKING...by phil frank

OKAY JOHNSON, WE
CAN DO WITHOUT
THE LEVITY!



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News Briefs

Greasy To Close

Chandler will be closed Thanksgiving weekend, from November 28 through December 1. Regular hours (7-4, 5:15-6:15) will be resumed December 2, and will also be in effect the beginning of the Thanksgiving week, November 25-27.

Can You Curl Yours?

Can you curl your tongue? Now can you reverse curl it? No? Come to Bridge Club Saturday at 7:30 in Winnett. Refreshments will be offered.

Too Much, The Magic Bus

The ASCIT Bus does exist; if you want to use it see Dick Beatty, 203 Ruddock, or call him at 449-9842.

Math Club Mentions Putnam

The first meeting of the Math Club will be on Tuesday, Nov. 26, at 7:30 in the Sloan Lounge (3rd floor Sloan). The upcoming Putnam exam will be mentioned. Refreshments will be served. Everyone is welcome.

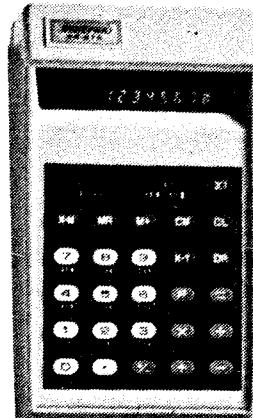
Pot Club Being Formed

Caltech has facilities for those people interested in ceramics; wheels, glazes, a kiln and space to work. They will be available to a ceramics club being formed. Anyone interested (undergrads, grads, staff, faculty, etc.) contact Hal Bright for more information. Phone 792-0086 evenings.

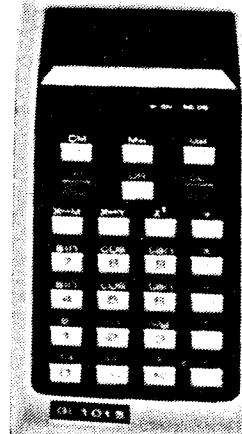
Gargoyle Statistics

For that ever-shrinking group of you who do not play Dungeons and Dragons, the following paragraph will be meaningless (not the one you're reading, you fool!). To put meaning back into your life, why not try playing some time. Contact Bob Cowan or Dennis

SPECIAL DISCOUNTS FOR STUDENTS!



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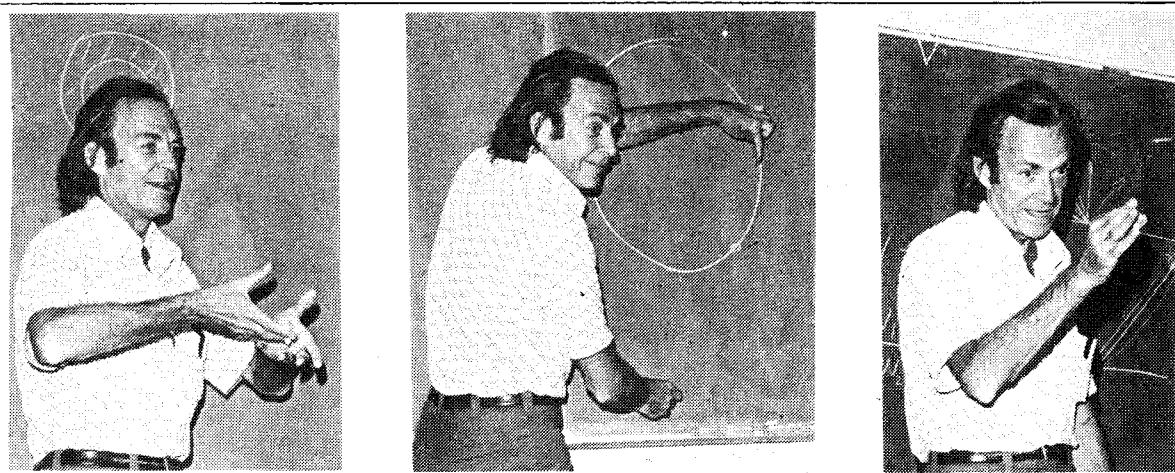


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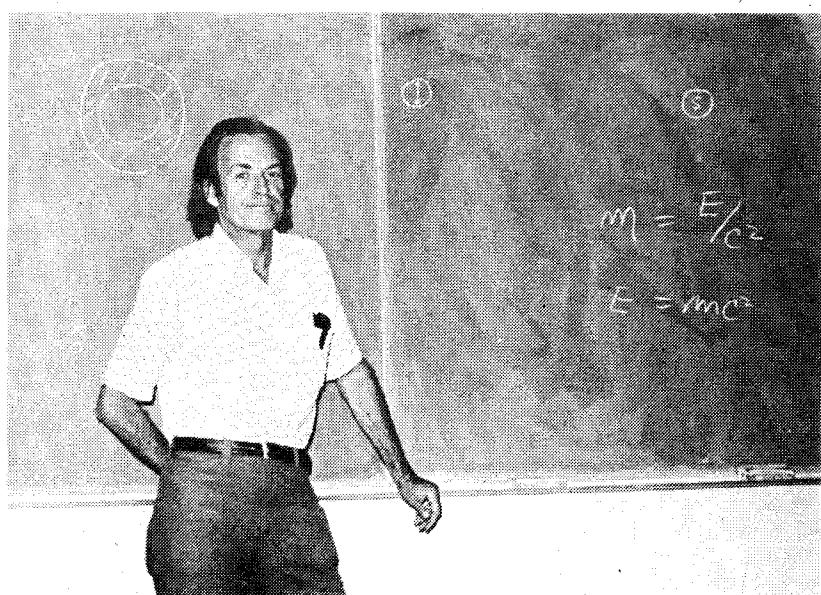
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Richard Feynman

PHYSICS 1x



Photos by G. Bone

Lunch With A Scholar

Roots of Aggression Explored by Researcher

with many differing viewpoints.

General Hostility

Dr. Hamburg feels that hostility and aggression are not just limited to certain individuals, but can and do occur in everyone. These aggressions can come from three sources: the group to which the person belongs, his mental make-up, and biological differences.

Dr. Hamburg feels the group is capable of differentiating between good and bad, and does so. This arbitrary scale set up by the "in" group can be affected by several things, such as its individual leaders and whether the person being judged is a member of the "out" group (economically and/or socially). A solidarity is formed between members of this group which

does the judging, and a justification is given to acts of hostility committed on outsiders.

Is Not Related

A particular example of this group behavior is ethnocentrism, where the judging group is held together by bonds of culture and national origin.

On the individual level, mental differences can affect a wide range of hostile responses. These differences are caused by such things as neglect or abuse as a child, and being brought up in an environment of violence, such as the inner city. This last source of hostility is helped along by family disintegration and poor social and/or economic conditions.

To Econometrics
Biological differences are

easier to trace. Many injuries to the brain and some diseases can affect the attack and aggression mechanisms in the brain, causing an increased hostility.

Dr. Hamburg, in his research, utilizes chimps as an effective analogy to man. One interesting discovery which has been made with chimps in Africa is hostility redirection. Two chimps of equal strength will make aggressive movements towards each other, but never complete them. After awhile, one chimp may attack a smaller chimp to relieve his aggressions. He is redirecting his hostility to an easier opponent.

The Tuesday discussions so far have been well worth the time spent in the Y lounge. It also gives an excuse to make your own lunch rather than eating food service food. So, pack a lunch and come on out to the Y lounge next Tuesday to listen to Dr. Paul Hoffman talk on "Everything from Geology to Music."

* * * * *

Stanford MBA

**REPRESENTATIVE
COMING TO CAMPUS**

TUESDAY MORNING, DECEMBER 3

A representative of the Stanford Graduate School of Business will be on campus to discuss with interested students the exceptional educational opportunity of the Stanford MBA Program.

Appointments may be made through
The Placement Office

The Stanford MBA program is a two-year general management course of studies designed for highly qualified men and women who have majored in liberal arts, humanities, science, or engineering, and wish to develop management skills to meet the broad responsibilities which will be required in both the private and public sectors in the future.

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The Tech About Town

This week it's the campus' turn to provide us with a surfeit of diversions. Off-campus, the only thing of note I have to offer is the coming of the second CTG production this season, Eugene O'Neill's *A Moon for the Misbegotten*. Previews begin tonight, and student discount tickets will be available one half-hour before curtain for \$2.50.

Tomorrow and Sunday afternoon Beckman will be inhabited by forty dancers who will entertain with dances from Fiji, Samoa, Tonga, Hawaii, and the Maoris. The show, "Polynesia," is a spectacular of both sight and sound, and may make you quite envious of Gauguin.

For those of you who feel the financial pinch, Dabney Lounge will host the second of its free concerts Sunday, featuring Jane Thorngren (soprano) and Jonathan Mack (tenor) accompanied by Larry Wong (pianist) singing works by Schubert, Schumann

and Brahms. Beginning at 8:00. This concert is certain to please those of you who harbor a romantic heart.

Lectures, as always, hold a large place in the schedule. Monday Dr. John R. Pierce presents the Watson lecture, his topic being communication and transportation. The L.S.B. Leakey Foundation opens its lecture series on December 10 with Dr. Jane Goodall speaking on Baboon Social Behavior (self-perception in Lloydies?). She will be followed through the year by Joseph Campbell (on the Spiritual Roots of Mankind), Dr. Mary Leakey (on the discoveries at the Olduvai Gorge), and Dr. Michael Day (on the Neanderthalers of Europe). I mention these now because there are fifty tickets to each lecture currently on sale to Techers for only one dollar each at the Caltech Ticket Office.

-Chris Harcourt



Here, at long last, is the material I've been promising about the Ice House. I went out Monday night to see the Rimaja Belly Dance Ensemble. Enjoyed it, too.

As you walk into the Ice House you are set immediately at ease by the carefree, intimate environment. The building is low-ceiling and stretches off in several directions around the bar, which serves a fine variety of beers and wines. There are areas to be with friends, to relax alone, to drink—privately or clustered at the bar, to do munchies or a book or game. And, of course, further in and off to your left is the main business of the Ice House, entertainment. This is something that the Ice House does very well.

It is with its entertainment that the Ice House comes into its own as an informal nightclub. There is a small raised stage, and accommodations for an audience of something over a hundred in

chairs and tables that are four levels to increase visibility. Monday night on that stage was to be found the Rimaja Belly Dance Ensemble. The ensemble consisted of oud, percussion, and the two dancers, Marta and Zagarit, who authored *The Complete Belly Dancer*. After some preliminary music from the oud, we were treated to a surprisingly competent short dance by a volunteer from the audience. Marta and Zagarit did their work separately, the only real common denominator between them being quality. Although they are both, perhaps, a bit thin in the classic sense, the dance certainly did not suffer. Aided by a fine light crew, the ensemble easily succeeded in its goal of enticing and entertaining its audience. By the end of the evening, my beer mug clutched firmly to hand, I was looking forward to their return in a month's time.

The diversions continue at the Ice House, this weekend with the singer Tim Morgan and next

week with the comedian Gabriel Kaplan, whose latest album is "Holes and Mellow Rolls." Ron Coden, and the Muledeer & Moondog Medicine Show are both coming. Showtimes are at 8:30 and 10:30, with 12:30 shows as well on Fridays and Saturdays.

The Ice House, nestled in an alley at 24 N. Mentor, is within laughing distance of Caltech, and you can come back laughing all the way.

-Chris Harcourt

Brand-new Math Prize Instituted For Grads

The Mathematics Faculty is pleased to announce the establishment of a prize named in honor of H. Frederic Bohnenblust, Professor of Mathematics, Emeritus. The Bohnenblust Prize may be awarded annually to one or more first-year graduate students in the Mathematics Ph.D. program who, in the opinion of the Mathematics Faculty, have done outstanding work in research, teaching, or other areas of scholarship beyond the normal course requirements, such as participation in seminars.

Contributions to the fund may be sent to the Executive Office for Mathematics, 164 Sloan.

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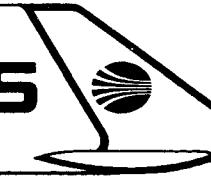
Remember too, a travel agent costs you nothing extra, so call one for the good word on all our Discount Fares. Or call us at 772-6000. At holiday time or any time, we can probably get you where you live, for less.

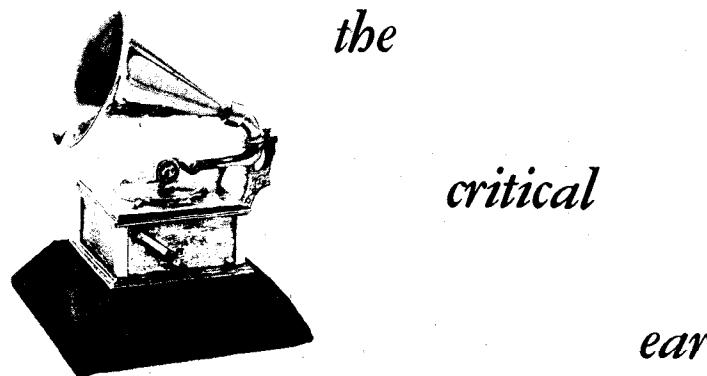
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CONTINENTAL AIRLINES

The Proud Bird with the Golden Tail.





critical

ear

"*Mantrajana*" by Matthias Bamert; *Some Marches on a Ground* by Gordon Crosse; Louisville Orchestra First Edition Records, Jorge Meister, conductor. \$6.98.

For the first performance of *Mantrajana*, by the American Symphony Orchestra in New York, Matthias Bamert wrote the comments,

"*Mantrajana* is a Buddhist belief which seeks redemption through the repetition of sacred formulas (Mantra).

"*Mantrajana* makes use of four oriental gongs. These four gongs are in front of the orchestra, two on each side of the conductor. Each gong is played by one person using six different sticks, striking the gong in six different points. To the rear of the stage, two violinists will play. The seating for the rest of the orchestra is left to the discretion of the conductor."

Despite its oriental title, the music is purely occidental, based,

according to the composer, on oriental philosophy. This is apparent in the actual musical instruments themselves, as the violin is not a customary oriental instrument. It involves modern techniques, such as a passage in which the instrumentalists are asked to devise their own Mantra from existing tone patterns (improvisation) for a period of time. It involves sudden changes from fortissimo to pianissimo, with dramatic tone alterations interspersed. The music leads first to an extremely loud passage, followed by a section in which, through *glissandi* on various instruments, then using only instruments low in pitch, then a third section using high-pitched instruments and a faster tempo. The piece ends as it began, with a soft note from the gongs.

Matthias Bamert is the Assistant Conductor of the Cleveland Orchestra, appointed to that post in the fall of 1972. In 1971-72

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FRANKLY SPEAKING...by phil frank



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"Juno and the Paycock" Brilliant, Star-studded

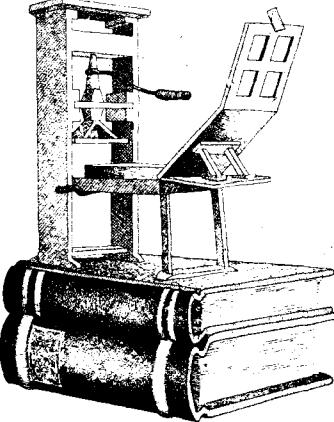
by Etaoin Schroedlu

There are three reasons why people write reviews of dramatic performances: 1) it's their job; 2) there is something about a particular production that is so outstanding that they want people to come to see it (or, perhaps, it's so bad that people should be warned to stay away);

or 3) a general appreciation of the theater and a wish to communicate this feeling lead them to call dramatic productions in general to people's attention. Reason 1) does not apply in my case--I'm not paid, or even given comps--and in the case of the Music Center's performance of *Juno and the Paycock*, reason 2) doesn't apply either--the run has been 'sold out' for weeks (although a few scattered singles may remain) so unless you've acted already, it's too late this time, and, I assure you, I'm *not* going to recommend you stay away. That leaves us with reason 3), and where the Music Center is concerned, calling its continued excellence to people's attention is a Good Thing for all concerned, including in particular you, the reader.

Juno and the Paycock

Juno and the Paycock, Irish playwright Sean O'Casey's masterpiece on violence, stupidity, and human weakness, at the Mark Taper Forum through Dec. 22, benefits from the Music Center's Star System to an almost unnatural degree: its stars are no less than Walter Matthau, Jack Lemmon, and Maureen



BOOKS

Book Review--*Phosphasia* by Dafn

"Oh, the Wizard of Phosphasia didn't know where he came from..." and neither will you after reading "*Phosphasia*", of which the above quote is the opening line.

Phosphasia is (on the surface) a rather poor attempt at juvenile fantasy. Concerned mainly with the activities of the "wizard" of the planet of *Phosphasia*, the book manages to ramble from scene to scene with incoherent abandon. It seems designed to bore anyone over ten years of age and confuse everyone else. But, of course, this is just a surface interpretation.

Below this innocuous, if disjointed, surface lurks nay, not allegory, but symbolism. Exactly what everything in *Phosphasia* corresponds to in our world is eminently unclear, but it has something to do with scientology, which Mr. Dan spends the last two pages of the book plugging.

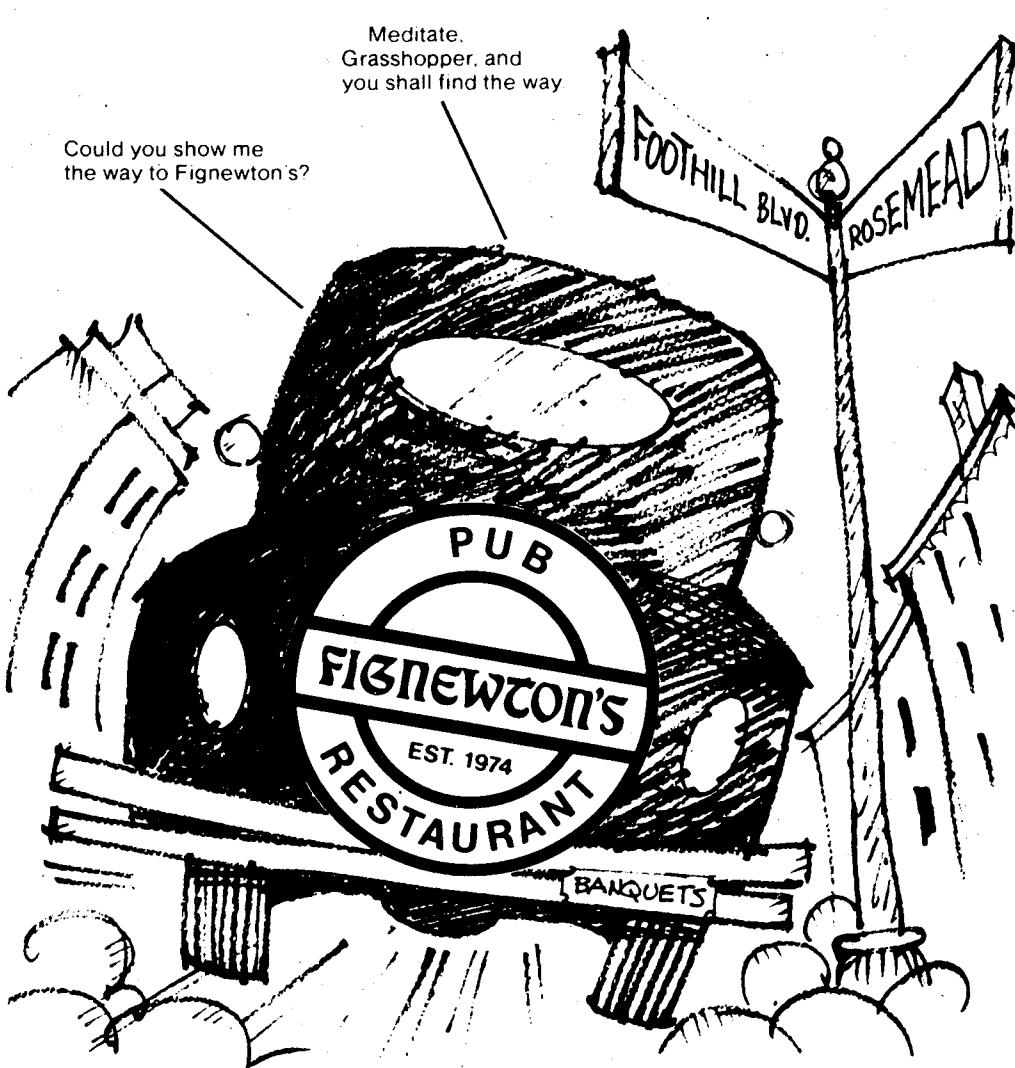
The book costs \$10, so if you're all that interested in such a curious sociological phenomenon as scientology, go see L. Ron yourself rather than get the book.

—Slippery Smik

(Who is not Mythical Snick!)

Stapleton. Matthau plays 'Captain' Jack Boyle, an aging fake who gets terrible pains in his legs whenever threatened with work, whose pleasure consists of drinking bouts with the flattering, treacherous 'Boxer' Daly (Lemmon). Boyle's wife, Juno (Stapleton), is left to try to hold the household together in the face of poverty and the violence endemic to Dublin in the early 1920s as the Irish Free State

Continued on Page Eight



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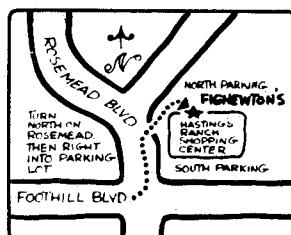
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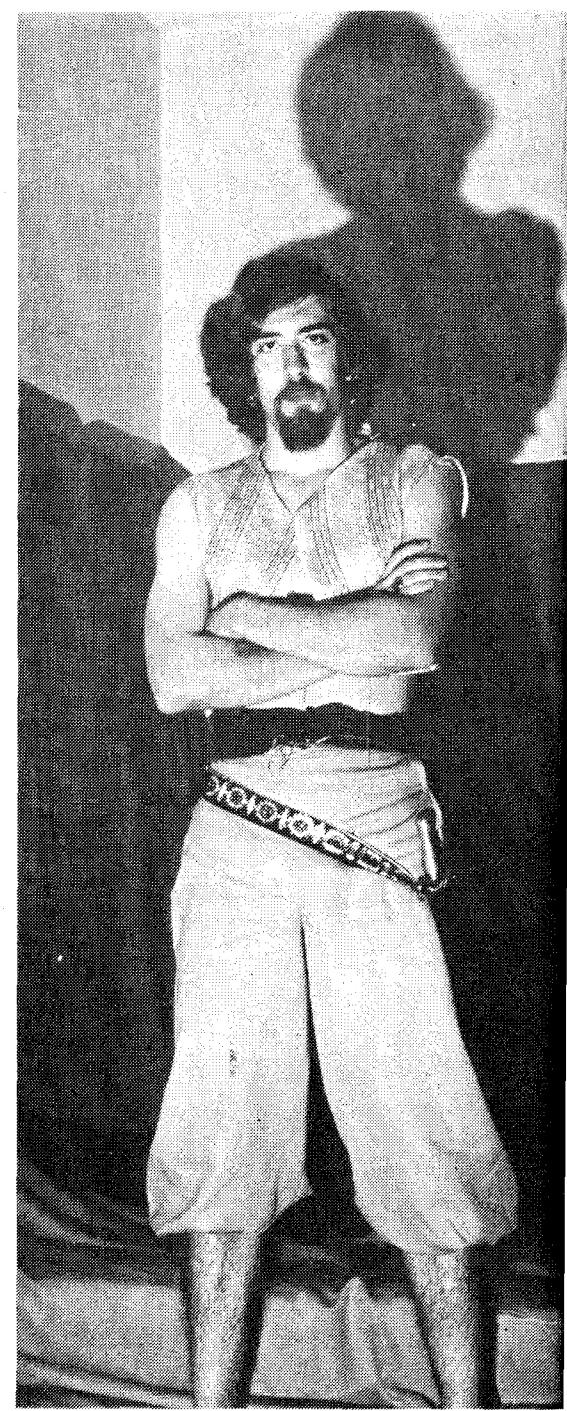
SATURDAY & SUNDAY

NOVEMBER 23, 8 P.M.

NOVEMBER 24, 2 P.M.



INTERHOUSE



Photos by Ken Yoshida and Greg Bone

critical ear

Continued from Page Five
he was on the conducting staff of the Orchestra, as he was the first recipient of the George Szell Memorial prize. In 1970-71 he served as an assistant to Leopold Stokowski with the American Symphony Orchestra in New York, where he was noted for his several guest appearances.

Crosse's Ground

With *Some Marches on a Ground*, Gordon Crosse superposes several march rhythms to produce a tremendous amount of feeling for such a small piece. It is almost two separate pieces of music, however, a "national anthem" sort of theme and a "ground" of a ground bass, or passacaglia, which works around a theme in parallel thirds, along with a "ground swell" of the strings. It utilizes effects much like the equally famous "Avak, the Healer" by Alan Hovhaness (also Louisville Orchestra) with the inflections given with the strings. His philosophy is that of the music-dialect, like that of the earlier masters Ives, Hindemith, Stravinsky and Shostakovich.

Like the contemporary master Carter, he brings forth the idea of simultaneous thematic development. At times, however, he elaves serious music behind with a "bang and a boom" and indulges in a madcap humor that is as original as it is witty.

There is also a somewhat religious element in Crosse's style that brings itself forth after a time. There is the same sort of mystique and wonder, the same "fatuous" character. Crosse himself patterns himself after Stravinsky, of whom he says, "Stravinsky's music becomes a symbol of the will creating order from chaos, capable of changing the world."

—David Callaway

Help Save

The Editor

The current issue of *Engineering and Science* magazine (October-November 1974) is in short supply and high demand. If you're through with yours, the Publications Office would appreciate your returning it to Ed Hutchings, 1107 San Pasqual, Mail Code 1-71. Another scarce issue is March-April 1974.

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THE CALIFORNIA TECH

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Cal State Awards Close TODAY!

nements and gifts for all ages, patchwork, pillows and aprons and other items. Also offered for sale will be baked goods and plants.

Proceeds from the sale will be used to support the various projects of the Service League for the benefit of Caltech students. These include such things as the purchase of color photography equipment for the California Tech and various ongoing projects as listed in the two pages attached.

The California State Scholarship and Loan Commission reminds high school seniors and college students that the postmark deadline for the filing of California State Scholarship applications is today.

Approximately 13,500 new scholarships for undergraduate college students are to be awarded by the Commission in March 1975. Students who believe they will need financial

mailing not later than December assistance to pay for tuition and fees at the college of their choice and who have already taken the Scholastic Aptitude Test of the College Entrance Examination Board (or who plan to take the examination on December 7th) are encouraged to secure an application from their school immediately. A copy of the Parents' Confidential Statement should also be secured for

13th.

The Commission especially wishes to encourage students with approximately a "B" average to apply for a State Scholarship. Analysis of Commission statistics has in the past confirmed that many students in the approximate grade point average of 2.80 to 3.20 who have not applied may well have been eligible with a reasonable test score and financial need.

This Article Valid Only If Paper Gets Out by Noon

by Young-II Choo

Friday is the day, and 12 o'clock is the hour when the noon concert is on the air outside the student center.

Last week two pianists entertained a large gathering of people with their duet playing of ragtime and salon music interspersed with some classics. Some of the music they played were "Maple Leaf Rag," "Cleopatra Rag," "King Porter Stomp," and

Brahms' Hungarian Dance No. 6 in D flat.

It was a warm sunny day and the music was well received by the various members of the Tech community enjoying the sunshine and some enjoying their lunch with the music.

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Ragtime

Continued from Page One

ship take over to provide the audience with something that could not be gotten off a simple recording. Their more serious moments were somewhat marred by a girl who appeared to be a professional page-turner for four-handed music scores. She had apparently not rehearsed one of the numbers, and kept trying to turn the pages at the wrong times. This distracted the audience, to say nothing of the performers. She looked nice, though. (Aside: The front panel of the piano was mirrored. In most cases this allows one to see the finger movements of the performers. In our section one could not do this without looking down a reflected neckline.)

A Little Ragtime

Hersh and Montgomery played music of several different types from the approximate time period of early ragtime. In some of these pieces, there was a story behind the title, such as the aforementioned "Swipesy Cakewalk." (Small boy who looks like has just 'swiped' something.) In other cases, one must merely wonder what the inspiration for the name might have been, as with Eubie Blake's "The Fizzwater," or with "Grandpa's Spells" by Jellyroll Morton. Eventually, they even got around

to playing an original piece, called "Bluejay Shuffle and Two-step," which is just as insane as it sounds.

The second half was much better than the first, if for no other reason than that the serious music was gotten out of the way with just after intermission. This allowed a certain building of moods towards the grand climax, the full length version of the "William Tell Overture." What one normally thinks of in connection with this piece of music is a little excerpt near the end which was used as the "Lone Ranger" theme song for many years. Once Louis Gottschalk got through playing with it, it fit right in with the extremely lively rhythms of the ragtime music that preceded it. The Overture was good enough that it looked for one brief moment as if there would be a standing ovation. This was impressive, since no one knew whether the concert was over. The duo finished off with the "Bluejay" whist, and the audience quietly went away.

Hersh and Montgomery are good performers, and it would be nice to see them again. I just wish they would not jar the musical moods quite so hard when they change styles. That is the only real thing that kept them rated merely as good rather than great.

—Nick Smith

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The CALIFORNIA Tech



Page Eight

Friday, November 22, 1974

Soccer Varsity Ties Old Grads

Last Saturday the Caltech Varsity Soccer Team fought to a 1-1 tie against the Grad Soccer Club. The varsity just barely scraped together a team as the eleventh man showed up just before the kick-off.

The game was typically control oriented. Both teams used short passes to advance the ball, and tried to set up good shots, rather than using long downfield passes. The Club scored first with a shot from the right wing. The Varsity goalie, Steve Trimberger, got his hands on the ball, but

fumbled it into the net.

The score stayed 1-0 until late in the second half when the Varsity had a corner kick. Joel Okazaki put the kick near the back of the goal. The Varsity corner kick strategy finally paid off as the Grad goalie was blocked out of play. In a frantic effort to stop undergrad Don

Cameron from scoring, the Grad fullback accidentally put it in himself.

One point of interest during the game was when Club captain Colin Bennett was injured in a scramble for the ball. After all, how often does the Institute sanction the maiming of your 108 lecturer?

Juno

Continued from Page Six

came into existence. The violence of the times has already struck the Boyle family nearly: their son Johnny (John Glover) had lost an arm and suffered a severely damaged hip in the terrorism that passed for war and revolt in that time and place (and which, lest we forget, continues to this day).

Snug But Not Dry

After most of the first act sets the time, place, and characterization (and which was performed rather weakly—the worst thing to be said about the show), an elegant young man, Charles Bentham (Nicholas Hammond) comes to the family with news that Captain Boyle has inherited a great deal of money, and shows his interest in the daughter, Mary (Laurie Prange). The Captain, of course, proceeds to borrow on the expectations, and he and Joxer do their bit to support the liquor industry, while the family flat gets itself a new set of furniture.

But the Boyles' prosperity

turns out to be short-lived, as word comes that 'the will was a washout': it did not specify Captain Boyle by name, but only by relation to the deceased, and he will get nothing after all. Bentham disappears, after getting Mary in trouble. The Boyles' creditors begin to foreclose on their clothes and furniture, and the faction of the slain neighbor discovers that Johnny has sold him out (no motivation for this is given), and comes for Johnny. Finally, in the ruins of their lives and hopes, Juno prepares to leave the Captain and take Mary away. The curtain briefly drops, and rises to let us see the Captain and Joxer stumbling back drunk, bemoaning the terrible state of the world.

Chassis and Chiselers

The emotional pitch of the play becomes very high in the second and third acts, alternating wrenchingly between the comic and the tragic, and the cast, working hard, managed to keep up. Probably the most consistent and best performance was Lemmon's, but his part may also be somewhat easier: the two

Boyle lead parts are very demanding, and Stapleton perhaps lacked a little of the force the part requires. Doing very well in important supporting parts as the Boyle children were Prange and Glover (patrons of last year's San Diego Shakespeare Festival will remember Glover as Mercutio, Sir Andrew Aguecheek, and Prince Hal). And, as usual at the Ahmanson, the smaller parts, here of various neighbors and Dublin townsfolk, were well done. Particularly memorable was the plea of the mourning mother: "...take away our hearts of stone, and give us hearts of flesh! Take away this murdherin' hate, and give us Thine own eternal love!"

The set, the Boyle's apartment, was excellent—and on a

Discobolus Results

Fleming Edges Page in Track-Field

Fleming defeated Page 26-24 last Sunday in a Discobolus Track and Field challenge; Fleming was particularly pleased when the Page challenge included Track and Field. This was because track is unlike other sports in that in track everything can be figured out on paper to determine the winner, before the meet starts.

The meet started with the 100 yard dash. John Steubs won the meet for Fleming with a time of 10.5 seconds. Page took second and Fleming picked up third.

The next event was the 120 intermediate hurdles. Big Red latched onto another first with Tom Creswell in a time of 14.5 sec., with the rest of the pack several yards back.

In the shot put, Brent Sweitzer of Page turned in a 48-foot throw to easily take first place. Brad Page and Jeff Borders took second and third for Fleming. Page picked up several points in the 660 yard run. Greg Hoit took first and Wilson Ho took second with Fleming's Jeff Poulin taking third.

Page House entered only two men in the high jump, Mark Bandhauer and Ben Chun. Fleming had three apparent entries,

Brad Page, Jeff Borders and Tony Tullot, who missed at 5'4" while Borders and Page were still passing.

At 5'6" Brad Page started jumping, and Borders confessed that he couldn't possibly make it. Brad Page missed his first jump, but cleared his second. Bandhauer made his first try, and Chun missed all three attempts to set him in third place. At 5'8" both Bandhauer and Page missed their first two attempts. If both men missed out Bandhauer would win because Page hit the bar at 5'6".

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Bandhauer executed his normal style and just barely knocked the bar off. Brad Page made two aborted approaches, then finally got his timing right and cleared the bar easily with his Fosbury.

That brought it down to the 880 relay. John Land got off to a good start for Big Red. Steve Vik kept the Fleming lead through the second leg. He handed off to Tom Creswell who added ten yards to the lead. John Steubs ran a strong anchor leg to beat the Page team easily, and give Fleming the win, and a complete sweep of the Discobolus order.

thrust stage, so holders of seats far over to the side are at some discomfort to see everything. The costumes are also well-done.

Currently playing at the Dorothy Chandler Pavilion in the Music Center is the New York City Opera, under the direction of Julius Rudel, through December 8, performing several operas including *Die Fledermaus*, *La Traviata* and *Turandot*. The Ahmanson Theater's run of *Private Lives* has now ended, and tonight begin preview showings of the Jason Robards-Colleen Dewhurst performance of Eugene O'Neill's *A Moon for the Misbegotten*, which received high critical acclaim on Broadway Monday nights at the Forum continue to be reserved for the Los Angeles Chamber Orchestra under the baton of Neville Marriner, at 8:30 p.m. Other Forum curtain times are 8:00 p.m., the same as the Pavilion, while the Ahmanson's curtain time is at 8:30 p.m. The Music Center has become strict about late seating (to the relief of those patrons who take the trouble to be on time), so be warned. For further information call 626-7211.

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