



Brown Wins Joseph C. Wilson Award

PASADENA (Caltech News Bureau)—Dr. Harold Brown, a key figure in nuclear disarmament talks and (as you may recall) president of Caltech, has been named the 1976 recipient of the Joseph C. Wilson Award for achievement in international affairs.

For a number of years Dr. Brown has been a member of the U.S. delegation to the Strategic Arms Limitation Talks with the Soviet Union. He made a major contribution in the achievement of the Soviet-American ban on atmospheric nuclear testing.

He is also a member of the Executive Committee of the Trilateral Commission, a group of private citizens from North America, Europe, and Japan whose efforts are directed toward the solution of the problems common to those regions and the advancement of their peaceful relations with the other parts of the world.

Dr. Brown will receive a

\$10,000 award, funded by Xerox Corporation and administered by the Rochester Association for the United Nations (RAUN), with the participation of the University of Rochester. The award honors the late Joseph C. Wilson, long chairman of Xerox and of the University of Rochester trustees, and a founder of RAUN.

The award is being presented today (Friday) in the Rochester, N.Y., Chamber of Commerce building with editor Norman Cousins of the "Saturday Review" speaking on "Is World Peace Possible Without World Order?"

Dr. Brown's efforts on behalf of nuclear control began in 1958 when he played a significant role as senior science adviser to the Geneva "Conference of Experts," the first Soviet-American effort to thaw out the cold war. It led to the 1963 nuclear atmospheric test-ban treaty.

Dr. Brown as director of

Millikan

Gets Maps

A limited edition of rare historical maps, covering the story of America's western frontier, are being donated to Caltech's Millikan Library by the Army Corps of Engineers. The maps were presented to Johanna Tallman, Director of Institute Libraries, on Thursday October 21, by Col. Hugh Robinson, district engineer, Los Angeles District Army Corps of Engineers.

The map sets are being given to a limited number of libraries and educational institutes. Mrs. Tallman said that Caltech was selected as a recipient because of its prestige and its interest in engineering. The maps will be housed in the Humanities and Social Sciences Library in Millikan Library and will be available for exhibit or research use.

The 32-map set was produced by the Army Corps of Engineers for the nation's bicentennial. The maps are on parchment-like paper and contain topographical,

geological, and ethnic notes of Army engineer personnel as well as the notations of other explorers, scientists, engineers, and scholars engaged in pushing the pioneer frontier westward. Spanning the period from 1776 to 1876 they feature the contributions of such historical individuals as Lt. Robert E. Lee, Capt. Zebulon M. Pike and Secretary of War Jefferson Davis.

On one of the maps, Los Angeles appears as the Puebla de Los Angeles and San Diego as S. Diego. This map drawn as a result of John Fremont's second exploratory expedition to classify the nature of the Great Basin between the Rockies and the Sierra Nevada also notes a number of other areas that are now a part of Southern California's urban sprawl: S. Buena Ventura, S. Anna, and S. Luis Rey. Mostly however, the map merely indicates the presence of scattered Indian tribes.

Defense Research and Engineering for the U.S. Defense Department (1961-65), guided the development of a detection system that made the treaty feasible. From 1965 to 1969 he served as Secretary of the Air Force. Earlier he was director of the Livermore Radiation Laboratory of the University of California. He has been president of Caltech since 1969.

Red Cross

Bloodmobile Coming

mobile from Pasadena area residents who may use a half hour of their holiday time to donate their blood—a community service and a means of insuring that healthy blood from volunteer donors will be available in local hospitals if they need it, or if a friend or family member requires blood.

The Red Cross is attempting to supply 100 per cent of the blood needed by local hospitals, so that no blood need be purchased from paid donors who may conceal health problems in order to receive the money. Blood from such paid donors has been proven to have a ten per cent higher risk of hepatitis than blood from volunteers, according to R. Allan Munnecke, Chairman of the Red Cross Blood Program for Pasadena Chapter, American Red Cross.

"The only way we can be sure of getting good healthy blood from volunteer donors when we need it is to volunteer to donate ourselves to keep the supplies adequate," the chairman declared. "Otherwise we may find ourselves depending on blood from commercial banks... blood donated by people wanting a few dollars, some of them addicts who use the money for drugs which they inject with dirty needles, increasing the chances of hepatitis virus in their bloodstream. We can avoid this by giving our blood... on Veterans Day!"

Red Cross Needs Drivers

If you have a little spare time and a good driving record (and a license), the Pasadena Chapter, American Red Cross needs your help.

Pasadena Chapter needs more volunteer drivers, particularly those who can spare two to four hours at a time, once or twice a

week to drive to one of the Veterans Administration hospitals. Men and women up to 70 years of age, with good driving records, are eligible to drive the Red Cross cars on these and shorter local trips, taking handicapped persons to treatment

Continued on Page Eight



Grad wives tell their tales at another of the continuing Y-Evening Discussions

Photo—Chris Wheeler

Parry! Riposte!

The Editorial Page

Editorial Policy

The first signature of an editorial indicates the author of that editorial. The following signature, if any, indicates the approval of the other editor. If both editors sign the editorial, that opinion represents the opinion of the *California Tech*. A dissenting editor may write an editorial opposing the views presented in the main editorial.

In general, column writers have complete freedom as to the content of their columns. No column shall be eliminated from any issue of the *Tech* solely because of the opinions presented in that column. Column writers represent only their own opinions and not necessarily the opinions of the *California Tech*.

The *Tech* welcomes all letters, whether or not they agree with editorial opinion. Letters are edited (or left out) solely on the basis of space, decency, and the desire to represent opinions in proportion to the amount of mail received. As with columns, the opinions stated within letters are not necessarily those of the *California Tech*.

Copy Policy

Effective Friday, October 15, 1976, absolutely no copy other than newsbriefs will be accepted for publication in the *California Tech* unless the author's name appears on the material. After submission of the material, the author's name may be withheld or a *nom de plume* substituted if such a request is made and if circumstances indicate that that is a reasonable course of action. No article will be printed with the author's real name if the author objects to such publication, but we do require that the *Tech* have a record of its contributors.

Al Kellner
Carl J Lydick

News Briefs

Nominations

Nominations are open for the positions of ASCIT Director-at-Large (freshmen and sophomores only) and the following faculty committee positions: Upperclass Admissions (1), Grievance Committee (2), Independent Studies (1). Anyone interested is cordially invited to sign up on Flora's door (105 Winnett). Nominations close Friday, Oct. 29.

Future Businessmen?

Seniors or grads seriously considering the MBA program at Harvard Business School beginning September 1977 should sign up in the placement office to see Mr. Greg Tanaka, Tuesday November 16. If further info is required contact Lonnie Martin (BS '69, MBA '72) at 213-475-9861.

THE ASCIT FRIDAY NIGHT MOVIE

Rollerball

ADDITIONAL SHOWING: 3 p.m. SATURDAY

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

High Plains Drifter

Letters to the Editors

What Evil Lurks in the Houses . . .

Along with the traditions and the tales and the fun, there is also a hidden evil in the House life. It is a very deep evil—deep and well-hidden—and everyone should be warned of it. Especially new students, who can escape it, should be warned. I was never warned; and I hope that I am not writing this too late. With this evil, it is hard to tell when "too late" is.

This evil consists in taking the House life and traditions more seriously than they are meant to be taken. It appears in many forms: in drawing a sharp border between Caltech and the outside world, or between one House and another; in restricting one's conversations to House life and studies; or in feigning cynicism and weariness in order to appear "grown-up". So many Techers suffer from it that to do so is to be normal; in fact, it is a kind of ideal. Emotions—both violent and gentle—are suppressed. Philosophical and religious questions are ignored: "seen through." It is best never to seem too truly excited about anything, and especially never to seem joyful. The ideal Techer would seem to be a joyless cynic, utterly competent, with loyalties only to his House, his school, and his work.

I know that I have sought parts of that ideal, and I remember something of what led me to seek them. When I speak in the third person, it is because I do not believe that I am unique.

That evil comes, in part, from the Houses' being not altogether bland. They are not dorms, and that is good—necessary here, because of the academic pressure.

They have people who will get you out of your room and onto a volleyball court (or into a shower) when you have been studying too long. And they have tales from "the days when men were men and giants walked the earth" that can make you feel that you are walking on historic ground. And the people who live in them are usually (as people go) honorable people. The Houses are probably the main reason that most of the people who come here do graduate from here. Dorms like UCLA's would be unbearable.

In itself, the House life is good. To a freshman, once he has conquered his homesickness, it is better. If he is as I was, he has never lived with so many intelligent people before. And he has never been in the midst of so many interesting things and events: steam tunnels, computers, Interhouse. If he notices a lack-of close friendships, or of concern of others for others—he knows that he has lived with those lacks for a long time. And there is enough excitement to let him (almost) forget about them here. Any little pains or hungers for love or happiness are drowned in the bustle of the House life.

The House life can seem so good and fun that it seems more real than real life. At least a freshman has some acceptance here—it is all right to be smart—that he may not have had in high school, and he is a part of the House life. Caltech begins to seem like a haven: an island of excellence in a mediocre sea. And that image of Caltech becomes so precious that he wants to identify himself with it.

He wants to be a perfect Techer. The cynical nonchalance of the upperclassmen (and of his fellow freshmen) looks like real life; while the ordinary concerns of morality and happiness seem like worries over nonsense.

But when he treats that life as real life, and makes his most

Continued on Page Three

Mail

To all concerned:

I am thoroughly convinced that someone in the mail room in Spalding is incompetent; someone in that so-called "full-fledged substation of the U.S. Post Office." Recently I finally received two first-class pieces of mail which had apparently sat in the mail room for almost two weeks. My name and house mail code were quite clearly written; the address on one piece of mail was typed. I don't know what kind of operation they're running over there, but obviously it doesn't even qualify as HALF ASSED. Somebody should either get glasses or wake up.

—Christopher Lee

[On the other hand, it only took them one day to deliver your letter to The Tech. You win some...]

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Associateships Open

The National Research Council (NRC) announces the Research Associateship Programs for 1977. These programs provide scientists and engineers with opportunities for postdoctoral research on problems in many fields of ATMOSPHERIC & EARTH SCIENCES — CHEMISTRY — ENGINEERING — ENVIRONMENTAL SCIENCES — LIFE SCIENCES — MATHEMATICS — PHYSICS — and SPACE SCIENCES.

The NRC administers the Research Associateship Programs on behalf of and in cooperation with selected federal research organizations, which have laboratories at about 80 geographic locations in the United States.

Appointments are awarded on a competitive basis. The competition is open to recent recipients

of the doctorate and in some cases to senior investigators. Some programs are open to non U.S. citizens also.

Approximately 250 to 300 new awards will be made in 1977. Stipends (subject to income tax) will range from \$15,000 upwards. Grants will be provided for family relocation and for professional travel during tenure.

Postmark deadline for applications is January 15, 1977. Awards will be announced in April.

Further information concerning application materials and specific opportunities for research is available from the Associateship Office, JH 606-P, National Research Council, 2101 Constitution Avenue, N.W., Washington D.C. 20418.

More Evil in the Houses

Continued from Page Two
serious concerns the concerns of the House life and of academics, he asks them to give more than they have. House life is not whole life, and cannot substitute for it. The Houses provide good times, but they cannot (of themselves) provide good friends. They cure aloneness, but do not (and cannot, and are not really meant to) cure loneliness. Tommy's flicks and volleyball games are very good and fun, and they have probably kept me from going crazy many times; but they cannot heal a deep hurt or satisfy every spiritual need.
A spiritual need is not an intellectual need. I hope that that is obvious. The contempt and ignorance of matters like this that I see around me tells me that it may not be. I am a Christian, but I will not here say that the great need of the Caltech community is to be converted that will, I hope, come later, and I will say so later (but not in this essay). The first great need for us is to be human, as humans have been for (at least) the last five thousand years, to know sorrow and joy

and anger and passion. There is so little of any of these at Caltech. Even real anger would be refreshing; it might engender real forgiveness or tolerance, and not mere indifference. Man is rational and animal, and he must be both to be Man. He must master his passions with his reason, but not kill them. Like a ship captain, he has to learn how to ride the sea without first freezing it.
A good indication of this spiritual freezing is Techers' reactions to death. I will tell of my own experience. A friend of mine died when I was a freshman. I did not grieve. In fact, I did not feel anything, except some surprise. I was surprised that anyone could die. Death, like the Pasadena Police, belonged on the outside, and did not come on campus. It was an "important" thing, meant to be treated frivolously. And yet, it had come on campus and was asking us to take it seriously. I was taken aback.
That precise feeling may have been peculiar to me. I do not, though, think that the "taken-aback-ness" is. What are we

supposed to feel when someone dies? Many of us do not know, and too many of us have trained ourselves to feel almost nothing at all, all the time. When someone commits suicide we may feign sorrow (or we may not) by trying to speak respectfully of him. We may think, "How awful," and go to suicide seminars; but we really do not know what to think or feel. We are uninfluenced or we are taken aback.
Aside from the joylessness and unhappiness that this evil causes, there is something else. Scientists are the upholders of a tradition that values reason. The world now seems to be despairing of rational thought. Superstition and witchcraft are being revived (there is a book of spells in the bookstore). This does certainly sound pretentious; but, if the world is not to become completely barbaric, the ones who respect clear thinking will have to be concerned about the world and about human beings. Trying to be "ideal Techers" does not train us for that.
—Mike Wilson

Caltech Dining Service	
HERE'S WHAT'S COOKIN' 10-25 76 through 10-29-76	
Monday October 25, 1976	
Lunch-	Corndog Beef Noodle Casserole
Dinner-	Roast Beef Au Jus Battered Fried Fish Salad- Waldorf Dessert- Peach Cobbler
Tuesday October 26, 1976	
Lunch-	Hot Turkey Sandwich Spanish Macaroni
Dinner-	Beef Enchiladas Corned Beef and Cabbage Salad- Combination Dessert- Devil's Food Cake with Chocolate Icing
Wednesday October 27, 1976	
Lunch-	Barbequed Ham Sandwich Beef Chow Mein
Dinner-	Veal Parmesan Beef Stroganoff Salad- Strawberry Gelatin Dessert- Sundae Bar
Thursday October 28, 1976	
Lunch-	Burritos Scalloped Ham and Potatoes
Dinner-	Grilled Chopped Steak Spaghetti Salad- Chef's Salad Dessert- Chocolate Fudge Pudding
Friday October 29, 1976	
Lunch-	Pizza Tuna ala King
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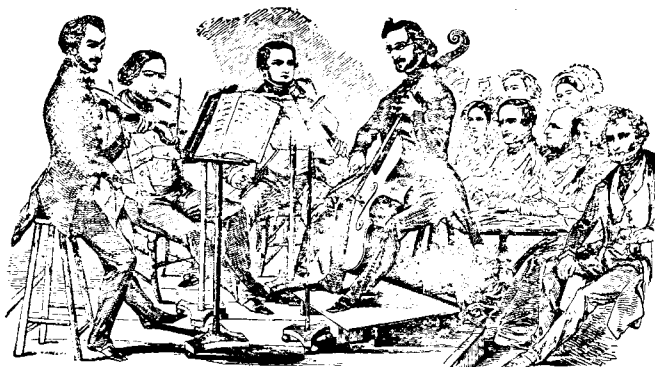
The Musica da Camera of Pragur was very enthusiastically received by a near-capacity audience at the Ambassador Auditorium last Thursday night. The chamber ensemble demonstrated a fine balance and individual virtuosity in six pieces from the Baroque era. The group is composed of the preeminent members of the violin, viola, cello, flute and oboe sections of the Prague Symphony, and the professor of harpsichord at the Prague Conservatory. The group's skillful and sophisticated expression had a mature richness of sound, while the combination of strings and woodwinds enabled the achievement of gaiety in the program.

The program opened with Suite in C Major by Jean Baptiste Lully. This is actually an overture and five dances strung together. Although the flute and oboe were sprightly, the Overture, Menuet, and Rondeau were too much formula-Baroque with no real detailing of theme. The last three dances, however, featured an intricate weaving of melodies with a beautifully effective, and performed, counterpoint between the wind instruments. This is apparently one of only two surviving chamber compositions of Lully's.

Sonata No. 1 in B-flat Major by Georg Friedrich Handel, the next on the program, opens with a very broad adagio which was impressively supported by the quartet composed of the oboe, violin, violoncello and harpsichord. Josef Kolar, playing violoncello, and Jaroslav Prikray on harpsichord provided an animated bass upon which Miroslav Lastovka (violin) and Pavel Verner (oboe) answer each other in rapid imitation. This piece

highlighted the talent of each musician and was masterfully performed.

Two flute quartets by Mozart, Quartet in D Major, K. 285, and Quartet in A Major, K. 298 straddled Intermission. The flute naturally dominates in these pieces (and in the group) and the flautist, Jaroslav Josifko, followed through with an impeccable and vigorous performance. The Quartet in D is especially challenging in the first movement, and the adagio features the flute exploring a hauntingly beautiful melody, reminiscent of Gluck's famous solo for flute from his opera *Orpheus and Euridice*, with the strings plucking in the background. The



strings are unreined in the last movement, ending the piece on a concerted and cheerful note. The second Quartet was apparently written in imitation of the French style, and is noticeably more frivolous than the other work, although the talents of the violoncellist were well featured.

The best, and most sparkling selection of the evening was Vivaldi's Concerto in G Minor, P. 402. Recordings of this seem hard to find, and it is indeed unfortunate for chamber music lovers. There is an almost modern syncopated theme line with beautiful lyric flute and oboe melodies. Solo portions

exist for each of the quartet (flute, oboe, violoncello, harpsichord). The group was noticeably energized during this rendition and pointed up by the importance to listener enjoyment of an express involvement by the performers in their work. Until this point, the members of the ensemble seemed reserved and stolid, despite their warm reception by the audience. Somehow rapport was struck with the crowd only during this Vivaldi Concerto, and in an encore, by Czech baroque composer Josef Mysliviciek, which was very gay and lively. The formal program ended with J. Christian Bach's Quintet in C Major, Opus 11, No. 1. Although it was no doubt

well done, it was a poor choice for the Finale. There were moments which were relatively interesting, but the quintet does not have much power, and seemed trying after the others.

—Barbara Taborek



Sasha & Yuri, the Moscow-bred rock group, closed a visit to Los Angeles last night at the Troubadour. Now based in San Francisco, the group plays a driving rock tinged with the evidence of its eastern roots. I mention them here because of their revelations about the rock underground in Moscow. It seems that musicians must build their own systems, albums must be black-marketed, and concerts are held on the sly—subject to police raids.

My God! We cry to ourselves. How horrific—it sounds like the setting of a relevant science fiction tale. How nice to live in America, where last Friday's Dead show was prefaced by Phil Lesh with a public service announcement: "...be very cool. No doubt some of you have some friends who didn't make it home last night for other reasons than normal." With such a difference between East and West, how may we distinguish between Ford & Carter?

The question of arts and government involves more than simple repression. It has been claimed that governmental support (financial) involves not only artistic survival, but also external control over thematic and stylistic context. In fact, this was the

logic behind the San Francisco Mime Troupe's recent withdrawal from a government program which would have funded extensive touring. You can see how the Troupe is doing on its own tonight and tomorrow at 8:00 p.m. in Fritchman Auditorium First Unitarian Church, 2936 W. 8th St., L.A. The title of the current offering is fairly revealing: *False Promises/Nos Enganaron (We've Been Had)*. Tickets are available at such alternative locations as Papa Bach's in Santa Monica and Chatterton's at Los Feliz and Vermont.

If you prefer to keep your off-hours occupied with a less sordid reality (and therefore a less expensive one), make your way tomorrow afternoon to Venice beach at Washington Street where the third annual Venice Pier Kite Festival will be taking place. The theme is animal kites, which may or may not be observed by the participants, who represent levels of both high and no ability. Kites which will appear include tigers, dragons, birds, and an eighty-two foot long centipede. For those with a lust for violence, there will be a kite fighting exhibition. So if this afternoon mysteriously someone

Continued on Page Six

Hubbard Jazzes at Starwood

Freddie Hubbard is one of the finest jazz trumpeters in the world. He plays with a vital, energetic force that can charge an audience to tense excitement. However, Hubbard's performance at the Starwood on October 18th was a disappointment.

Not that his trumpet didn't shine; the horn was played with typical Hubbard brilliance. The poor quality of the concert was a result of careless engineering and overly loud albeit competent, accompaniment. My overall impression of the show was that of a scintillating trumpet player struggling to be heard over the droning, distorted din of an electric back-up band.

The main problem with the engineering was simply that everything was too loud. The

Starwood is a small, cozy place, not large enough to handle the crunching sound pressure of many amplified instruments. Of course, along with excessive volume comes excessive distortion. The combination of these two factors was enough to cause actual physical pain, and it took my ears about an hour to recover after the concert.

Jazz should not necessarily be a quiet form of music, but it must be sensitive and sensuous. The constant use of electric instruments destroys these qualities. Hubbard's back up included an electric piano (complete with a Mutron device), an electric bass, and an electric guitar. These instruments, driven by hundred watt amplifiers, smothered the crisp earthy sound of the

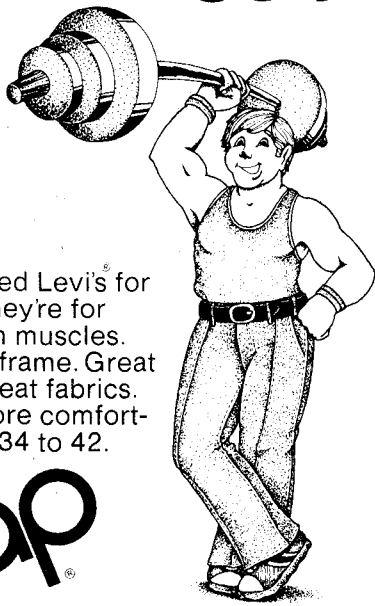
acoustic instruments: saxophone, drums, congas, and, of course, trumpet.

It is sad that a trumpeter of such dynamic intensity has to fight with his band rather than create with it. It was not his regular band, and there was an obvious lack of musical empathy. On those few occasions when the band did quiet down Hubbard soared. In a piece entitled "Feelings", Hubbard took command of the fluegelhorn sustaining rich and flowing tones in a gentle solo.

I'm sure that Freddie Hubbard was brilliant throughout the performance, but I can only speculate since I could hear him clearly only about half of the time. Maybe I'm too much of a purist, intolerant of "new directions" in jazz. But it seems to me that the purpose of good music is to tantalize the ear drums with clear and captivating musical artistry, not subject the ear drums to painfully loud, distorted, electric sounds. An evening with Freddie Hubbard accompanied by unamplified acoustic instruments, would be an enjoyable evening indeed.

—Mojo

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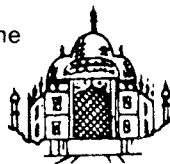
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Women's Show at Baxter Art Gallery

PASADENA (Caltech News Bureau)—Unique visual statements by four Southern California women artists from four cultural groups are being displayed in an exhibit entitled "In Search of Four Women/Four Cultures," in the Art Gallery in Baxter Hall here on campus. Paintings, photographs, and assemblages will be on view through Nov. 12 Tuesdays through Sundays, from noon to 5 p.m.

Although the women's work is highly personal, it expresses their differing views of American culture both as women and as members of different groups which are part of the mainstream — Blacks, Mexican-Americans, Japanese and "pure Middle America." Cultural influences are also apparent in the materials the four artists use.

For example, the past is an ingredient in the constructions of Betye Saar. Many of the items in her assemblages and collages once belonged to her great-aunt, Hattie Parson Keys, who died in Pasadena last year at the age of 95. Other works have utilized African and American images and symbols to express the black heritage as well as her own artistic vision.

Donna Nakao also believes the past can have special impact. Her blend of old photographs with the spare black and white of her own photography juxtaposes varied realities. Her work also reflects the economy and simplicity characteristic of Oriental art.

Very different cultural cues are utilized by Judith E. Hernandez. She uses powerful folk images drawn from religious arts and crafts to express the color, feeling, and energy of the Southwest's traditions.

bited in the Laguna Beach Museum of Art and in Los Angeles and San Francisco.

Ms Hernandez has been active in numerous mural projects and is a member of two artists' collectives. She has a master of fine arts from Otis Art Institute. Her works have also been shown at the Los Angeles County Museum of Art and the Los Angeles Institute of Contemporary Art.

Cheri Pann earned a master's degree at California State University at Los Angeles. She has also studied in Japan. Her works have appeared in group shows at the Pasadena Art Museum, a previous Baxter Art Gallery exhibit on surrealism and numerous solo shows.

The paintings of Cheri Pann, on the other hand, reflect the blend of many nationalities that make up the broad mainstream of Middle American culture. Her search for a viable heritage is visible in paintings which are a meeting ground of cultures and styles, in which a varied and contradictory view of women also emerges.

Ms Saar is a UCLA graduate whose many solo shows include a recent exhibit at New York's Whitney Museum of Modern Art. During the past year, her works have also been included in exhibitions at the San Francisco Museum of Art, the San Jose Museum of Art, and the Los Angeles Municipal Art Gallery, among others.

Training in video and photography while earning a master of fine arts degree at UCLA is part of the background of Donna Nakao. Earlier this year, her work was included in "Video International," at the Aarhus Kunst Museum in Denmark. Her photographs have also been exhi-



Bob Rosenstone, director of Baxter Art Gallery, listens attentively to comments on new exhibit in Baxter.

Photo—Dave Wheeler

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More Tech About Town

Pickering Wins National Medal of Science

Continued from Page Four

directs you to go fly a kite, do it in style.

While you're spending your weekend out on the West Side, and especially if you have a taste for the absurd, Royce Hall at UCLA offers this Sunday at 8:00 some truly primo ballerinos, *Les Ballets Trockadero de Monte Carlo*. The Trocks (as they're affectionately known) are second to none in the field of travesty ballet. The members of this talented troupe include Olga Tchikaboumskaya, the ravishing Suzina La Fuzziovitch Zamarina Zamarkova, Natasha Veceslova, and Eugenia Repelskii.

If you're staying home this time around, try not to despair. Spectrum's production of

Molnar's *Olympia* opens in Ramo tonight at 8:00 and admission at rush prices is \$1. Just think, a dollar for regaling stories and entertaining wit that not even a round or two on the house in the Ath basement could match.

If leaving your body at home doesn't preclude sending your mind on vacation, there is a fine opportunity with a fairly flexible schedule at the Hastings Theater, Walt Disney's *Fantasia*. This classic is being billed as *A Spectacle in Sight and Sound*, but in the past has been touted as "The Ultimate Trip." Such perceptive promotional copy. Trust the man who wrote it. And wish that we had more like him.

—Chris Harcourt

PASADENA (Caltech News Bureau)—Dr. William H. Pickering, who for 21 years was director of the Jet Propulsion Laboratory, received the National Medal of Science in a presentation at the White House in Washington last Monday (Oct. 18).

The nation's highest award for scientific achievement, the National Medal of Science is awarded to outstanding scientists who "in the judgment of the President are deserving of special recognition for outstanding contributions to knowledge in the ... sciences."

President Ford presented the medal to Dr. Pickering for,

according to the citation "his leadership of the exploration of the planets of the solar system and his personal contributions to the theory and practice of soft planetary landings and the collection of data from deep space."

After the presentation 15 Medal of Science recipients and members of their families were guests of the State Department at a luncheon.

As its director, Dr. Pickering led JPL, which is operated by Caltech for the National Aeronautics and Space Administration in the designing, building, and flying of the free world's first satellite, Explorer I. Under his guidance, JPL designed the

Ranger, Surveyor, and Mariner Spacecraft and supervised their missions, which disclosed more information about the moon and nearby planets than all the years of observation from earth.

He has been honored for his own discoveries as well as for the great success of JPL under his direction. Pickering has been elected to both the National Academy of Sciences and the National Academy of Engineering. Among his numerous awards are the Magellanic Premium of the American Philosophical Society, the Order of Merit of the Republic of Italy, the Special Award of the British Interplanetary Society, the Galabert Award from France, and the Robert H. Goddard Memorial Trophy of the American Institute of Aeronautics and Astronautics. Earlier this year he was honored by Her Majesty Queen Elizabeth with the title of Honorary Knight Commander of the British Empire.

Born in Wellington, New Zealand, Pickering received his BS degree from Caltech in electrical engineering in 1932, his MS degree in 1933 and his PhD in physics in 1936. He joined the Caltech faculty as instructor in electrical engineering and was named a full professor in that field in 1945.

He began his work at JPL in 1944 and was appointed its director in 1954 by Dr. Lee A. DuBridge, then president of Caltech. Dr. Pickering has returned to Caltech as professor of electrical engineering after retiring from JPL last year.

Other Caltech faculty members who have been awarded the National Medal of Science are Dr. Theodore von Karman (1962), Alfred H. Sturtevant (1967), Allan Sandage (1970), Arie J. Haagen Smit (1973), William A. Fowler (1974), and Linus Pauling (1974).

News Brief

Caltech Hillel

Undergraduates are planning an organizational meeting for this year's version of this long-standing campus organization, to be held Sunday, Oct. 24 at 11 a.m. in Clubroom 2 Winnett. Bring ideas for future programming.

Philharmonica

The Caltech Y has purchased 9 Student Subscriptions to the L.A. Philharmonic 1976-77 season Series B and Series D (Thursdays and Fridays). Cost is \$1.50 for Caltech students (per concert); pay at the Y office to reserve your seat at next Thursday's concert (10-28). Transportation is free, leaves from the front of Winnett center (near the oak tree) at 7:35 p.m. sharp.



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Al Stewart at the Roxy

by Greenie

"I was jumping to conclusions when one of them jumped back..."

Al Stewart is definitely not better than the Beatles. But he comes close.

Not since the rise of Bob Dylan has such a promising poet-musician been seen in the music world. Like Dylan, Al Stewart began as a folksinger, but quickly evolved his own distinctive style. He is a master at synthesizing brilliantly constructed melodies with poetry of surpassing subtlety and richness, producing songs which are better described as works.

In his own refined British way, Al Stewart is what Dylan would be if he could sing. While his images are as striking as Dylan's, he is somehow more restrained, and, in a way, more cultured.

Talent attracts talent; Rick Wakeman and Tim Renton have provided keyboards and lead guitar on Al Stewart's later albums. But he is also an outstanding musician; not only does he dazzle with the accoustic guitar, but he holds his own on keyboards and lead guitar in songs such as "Roads to Moscow".

His topics range from the historical to the autobiographical yet, whether he is singing about the onset of World War II ("Last Day of June, 1934") or personal arrogance ("The Dark and the Rolling Sea"), he does so from an intensely human point of view.

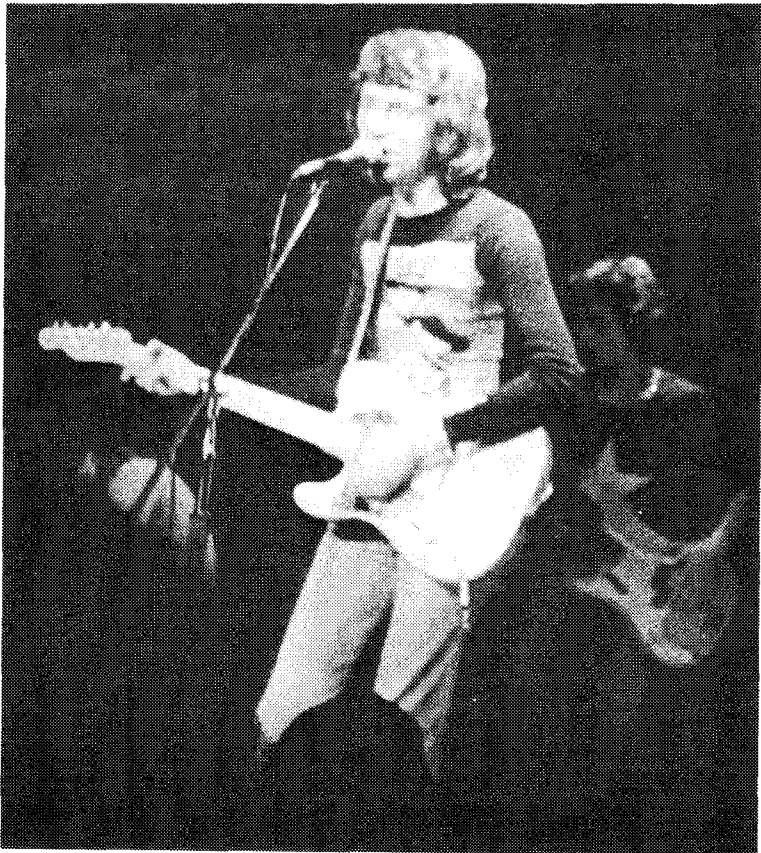
The Roxy Theater, a small, intimate nightclub on Sunset Blvd., was the perfect setting for Al Stewart. His performance there last Thursday was perhaps even better than his studio

recordings. Where these suffer from a detachment almost amounting to coldness, in person he managed to bring out the human element of his compositions to the utmost.

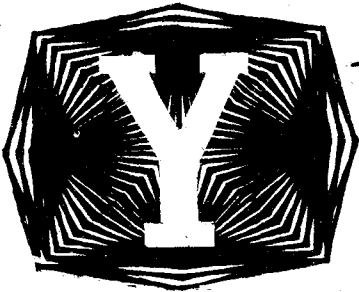
Loss of lead guitarist Tim Renton to Led Zeppelin may in fact improve the product by highlighting Stewart's own nimble playing.

The concert was part of a tour to promote Al Stewart's latest release, *Year of the Cat*. *Cat* is definitely up to the high standard of the previous ones; a little jazzier than others but with the same careful craftsmanship.

Another Southern California tour will follow this one in about a month; if you missed this one, remember: You should have listened to Al...



Al Stewart dazzles the crowd at the Roxy. Photo—Rich Feldman



There will be a Caltech Y presentation on "Astral Projection: The Out of Body Experience," by Dr. Charles Tart, professor of psychology at the University of California at Davis, on Thursday October 28, at 8 p.m. in Winnett Lounge.

Astral projection may seem foreign to a place like Caltech. It sounds like something more in the field of mysticism than science. Anyone who would research it would seem more like a "medium" than a scientist. And that isn't true at all. There are a number of very good scientists working in the field of para-normal phenomena. And one of the best is Charles Tart.

Charles Tart, after completing his Doctorate in Psychology at the University of Northern Carolina, has spent the last ten years as one of America's principal investigators in parapsychology and transpersonal psychology. He's responsible for several books in these fields: from *Transpersonal Psychologies to Altered States of Consciousness* and *Studies in Psi*. He is a researcher with a lot of integrity. I noticed that one of the easiest ways to avoid the whole issue of para-normal phenomena is to invalidate the scientific integrity

of the researchers in the field. So if you question the controls, data reduction or maybe the sanity of psi researchers, you will find Charles Tart refreshing.

"Astral Projection of Consciousness" is an experience of being outside of the body. It's an experience of being physical-body-less, which is as real for those who do it as it is for you right now.

If you're curious, there's a book in the library about one man's experiences—*Journeys out of the Body* by Robert Monroe.

Most people dismiss astral projection as light psychosis, but what do you say when a woman leaves her body, in a lab, experiences being in an adjacent room, reads a set of random numbers, and brings them back with her?

If a phenomenon seems impossible and "unscientific", maybe it does not reflect incompetence or biasing on the side of the researchers, but rather the limitations of our knowledge. Sometimes the richness of our human experience does not seem to be explicable in terms of neurobiology, chemistry, or physics as we know it.

—Moses Ma

The Galloping Gourmand

As promised, this week we look at a few of the local supermarkets Techers frequent to keep food on hand to placate the goddess Hunger when she strikes on weekends and other times.

The *Pantry*, California & Lake, is probably the Techer's favorite. Prices a tad higher than some, but convenient. They will cash checks for up to \$25 over the purchase price (no purchase necessary, either) on the basis of Caltech I.D. They're open 'til ten. *Fazio's*, San Pasqual & Sierra Madre Blvd, has good prices but a little less selection of sizes and brands, although they have a good wine section. They also close "early," around nine; they will take checks for amount of purchase only, if you present Caltech I.D. The *Safeway*, Colorado & Sierra Madre, has the largest selection of food and other trivia of any market in the area. The prices are reasonable, and they're open 'til midnight every night. They will accept your first check for purchase only; if you fill out a card at that time they'll file it and you can then cash checks for anything within reason.

What follows is a list of common grocery items and their prices at the three markets in question. Unless a brand is specified, the product priced was the cheapest available in the category.

Well, the prices speak for themselves. It's not worth the hassle to buy some groceries at one store and some at another just to save a few pennies, but depending on what you usually

buy one of the three will generally be cheapest for you. Note, for example, the excellent prices at Fazio's for apples, shampoo & headache pills, while the *Pantry's* fresh meat prices tend to be lower. Bear in mind that prices on beer, wine, and liquor are fixed in California, so one store never saves you money

on any of these. Good luck and happy shopping; I hope this information helps out. Next week we'll take a look at some local banks and the services they offer Techers, along with credit requirements for their credit cards.

—Dick Beatty

	Pantry	Fazio's	Safeway
Milk, lo-fat, 1 gallon	\$1.34	\$1.34	\$1.34
Eggs, USDA Large, 1 dozen	.69	.81	.69
Bacon, 1 lb	1.38	1.29	1.19
Wieners, 1 lb	.93	.79	.79
Ground Beef, 1 lb	.49	.57	.59
"Delicious" Apples, 1 lb	.35	.19	.25
Fruit Yogurt, 8 oz	.35	.25	.25
Weaver's/Wonder Bread, 24 oz	.75	.75	.71
Minute Maid Orange Juice, 12 oz conc.	.65	.63	.65
Peanut Butter, Skippy Creamy 12 oz	.72	.70	.72
Oreo cookies, 19 oz	1.05	.99	1.09
Wishbone Italian Dressing, 8 oz	.59	.55	.59
Vanilla Ice Cream, ½ gal.	.89	.89	.89
Herbal Essence Shampoo, 12 oz	1.92	1.59	1.79
Excedrin, 60 tablets	1.36	.99	1.19
Coca-Cola, 6-12 oz cans	1.45	1.45	1.45
Imperial Margarine, 1 lb	.59	.49	.57
Total	\$17.46	\$16.16	\$16.61

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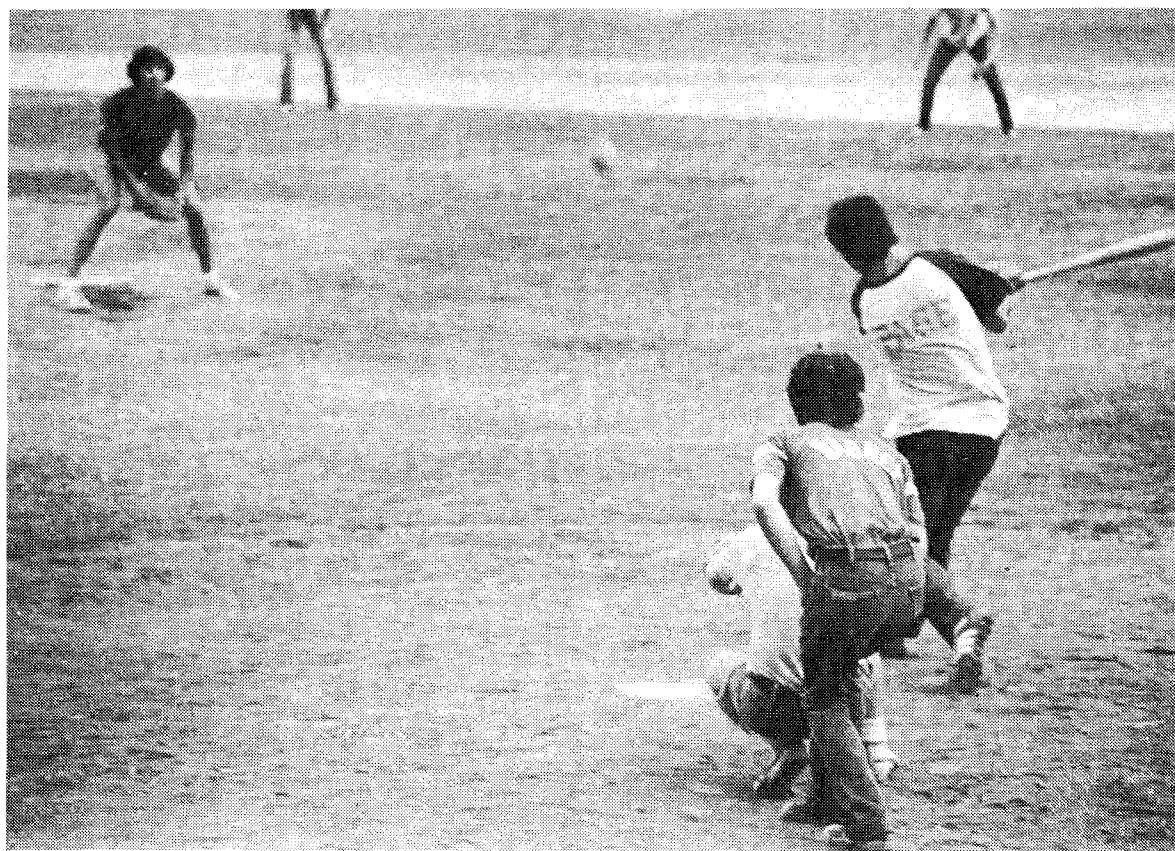
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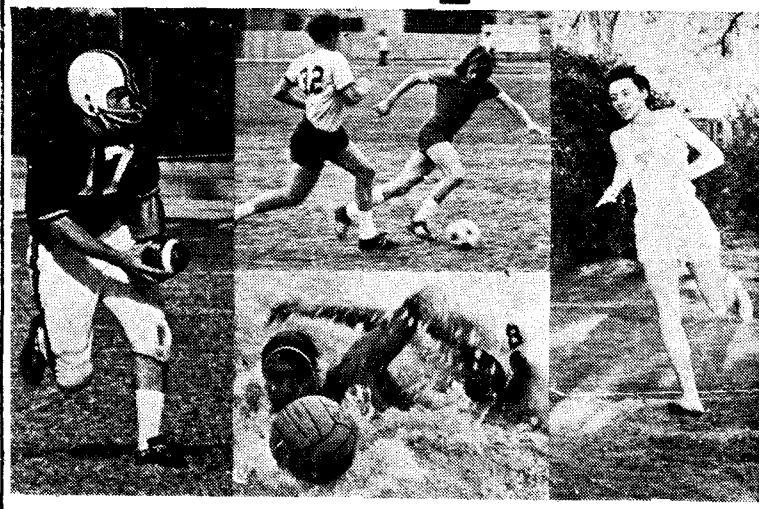
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Page Dude slams out a hit to help Page beat Ruddock and tie for first place in Interhouse Softball.

Photo—Rich Feldman

Tech Sports



Harriers Win, Lose

by Brett van Steenwyck

Caltech Cross Country took a break from conference competition last Saturday when it met Chapman and L.A. Baptist at Hart Park, over a twisting, turning course on a cool, overcast morning.

Rob Bourret was the first Caltech finisher, and first in the race, averaging 5:27 per mile over the 5-mile course for a 27:16. Next for Caltech was Eugene Loh in sixth place, running a 29:07. Bill Gould, Tom McCabe and Joshus Rothenburg rounded out the scoring (top five) for Caltech with their eighth, eleventh and thirteenth place finishes with

respective times of 30:07, 30:27, and 31:06. Ken Campos finished sixth with a time of 37:25.

Chapman beat Caltech with 24 points as opposed to CIT's 31, and L.A. Baptist lost to Caltech, scoring 32 points to the Beavers' 23.

Tomorrow Caltech hosts Redlands at the home course in the Arroyo Seco. "We should beat Redlands, but we won't if we aren't up to strength" comments Coach Neal. The question of full strength is a crucial one, as illness has struck several members of the team, and Redlands is a team that has runners able to stay up with the better ones on the Caltech team.

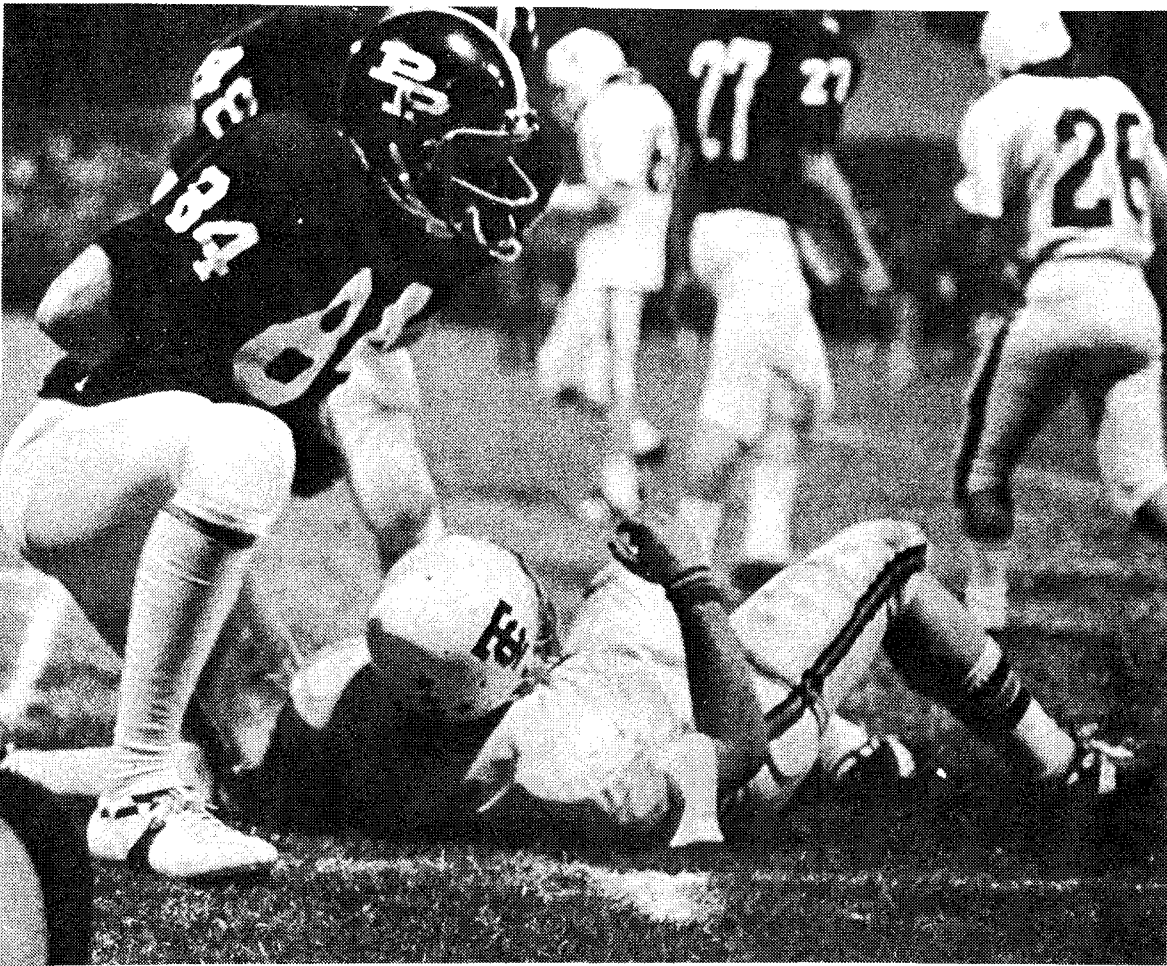
More Red Cross

Continued from Page One
centers or special workshops, blind persons to Braille Institute, children to special schools or recreational facilities.

"Many Pasadena area veterans need a ride to VA hospitals for treatment," said Mrs. Ross Munro, Chairman of the local

Transportation Unit. "A vet too disabled to drive usually can't make that long trip with transfers, on the bus, to Sepulveda, Wadsworth or Long Beach, and they depend on Red Cross volunteers to take them and bring them back."

Voluntary contributions to Red Cross provide the cars and gas... all you need is a little spare time and a good driving record. Call the Red Cross in Pasadena — 799-0841 ext. 32 or 33, tell them you'd like to help veterans and others who need a ride.



Pomona-Pitzer stayed on top of Tech throughout last Saturday's game.

Photo—Yin Shih

Space Shuttle

Be The First
On Your Block...

The U.S. Government is now taking space-available reservations on the Space Shuttle flights to be commencing about 1979, as you may have read on the first page of the L.A. Times (the competition), Oct. 12. If you get your orders in early to NASA, you can get up to 200 lbs payload and 5 cubic feet of space for a mere \$10K. Since the regular runs will only be 75% booked in advance, the chances of getting space on a flight are good.

The NASA release was quick to point out, though, that this is not quite enough room for a live passenger with the necessary life support gear. Unless they can

get up about \$20M to rent a whole flight, tourists are out of luck.

However, corpses require precious little in the way of life-support. You can be the first on your block to have a solar funeral, if you place your reservations quickly! Or, think of this: by having your cremated remains placed in an appropriate container, you could be an unforgettably spectacular last show for your dearly beloved (and perhaps a million other people) by having said container re-entered over the city of your choice — limited latitudes only, please!

For more information write to the Director of Public Information Kennedy Space Center, Florida 32899.

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