

Welcome Frosh,
to
Caltech

The CALIFORNIA Tech

—Boot Camp
of the Marine Corps
of Science

Volume LXXX

Pasadena, California, Thursday, September 21, 1978

Number 1

Abroad

Jazz

The New Miss Alice Stone Ladies Society Orchestra, a seven-piece all-woman group, will give one-night only concerts at 8:30 and 10:30 Monday, Sept. 25 in the Ice House, 24 N. Mentor Ave., Pasadena.

"Alice Stone" specializes in an eclectic spectrum of music ranging from early jazz through original satire, country/western and rock 'n' roll.

Sandra Bernhard, a comedienne who has been seen regularly on the Richard Pryor and America 2 Nite TV shows, will be the evening's guest performer.

Members of "Alice Stone" have adopted names true to their characters, instrumentation and dress.

"Alice Stone" is Ms B: Haven, sliding in on trombone; Kell Drag, as base as ever on tuba; Paris Sleeze, tickling those ivories; and Sybil Wrights, drumming to the beat of a different tune.

The band, which has been described as "loosely tied, but not overbearingly so, to a feminist theme," also features: Clara Gnat, clarinet and vocal chords; Lena Littlecloser, guitar, strings and things; and (simply) Mauve Ellis, on first, second and third violins.

Structural Art at Baxter Gallery

The first survey exhibition tracing the work of contemporary artist Laddie John Dill will mark the fall opening of Caltech's Baxter Art Gallery, Thursday, September 28. The show will run through November 5.

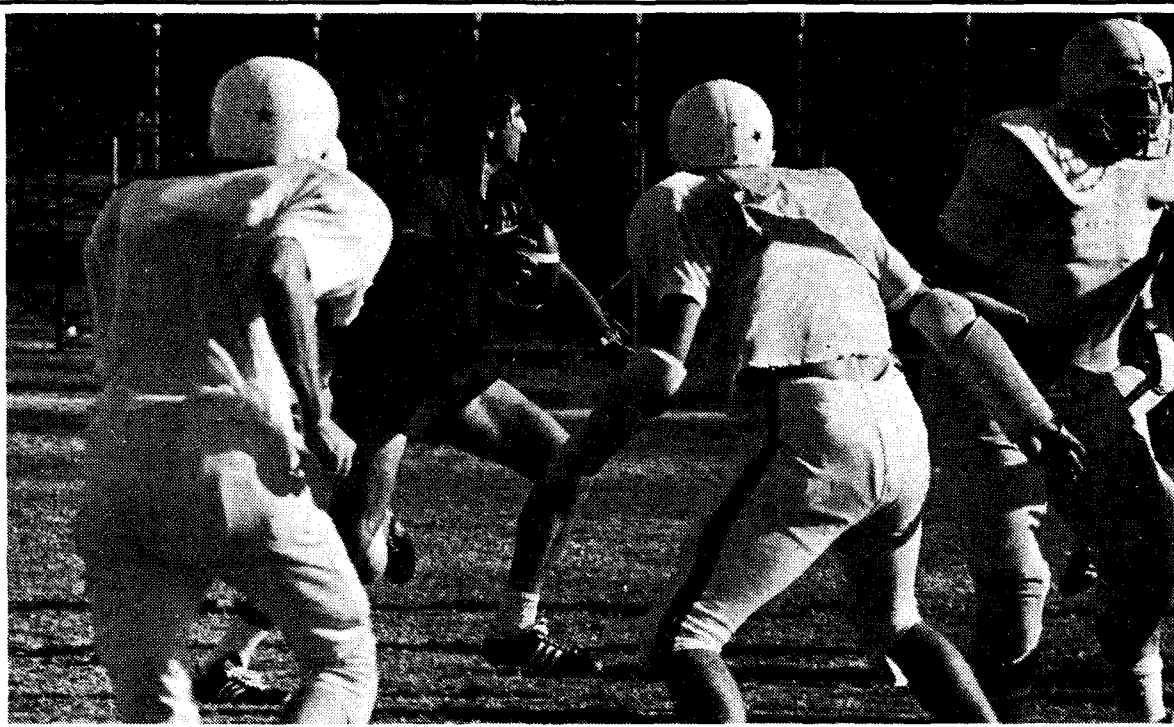
Since Dill's first individual museum exhibit in 1971 he has participated in more than 55 individual and group exhibits throughout the U.S. and the world. The Baxter show offers the first opportunity for an in-depth examination of the artist's work.

Featured in the Baxter show, one of Dill's most important works from the 1971 exhibit, is a twenty-by-four-foot pile of sand that supports a structure of glass panes. Buried under the sand is a light source that causes the edges of the glass to glow.

Other works include a series of paintings composed of cement, polymer, and broken glass. Their brilliant colors are derived from substances such as sulphur and iron oxide that associate these unconventional paintings with traditional landscapes.

More recent works to be shown include a series of "door paintings"—seven-foot architectural-relief sculptures that reflect the artist's interest in the work of Henri Matisse. Dill builds on Matisse's image of an open window, using actual building materials to create an illusionistic effect.

For further information, call 213-795-6811, ext. 1371.



During a lull in the action at a recent football practice, Coach Tom "Twinkle-Toes" Gutman, brushes up on the newest disco craze—the Scramble. More pictures from team practices are to be found on page three. Photo by ed. Bielecki

...Some Wierd Kind of Sandwich

Are You a Hero?

by Grant T. Yokum

Jim: Hey Nurd! What's happening at Tech this year?

Nurd: A most intriguing series of experiments will be performed this year at Caltech. Using a near frictionless surface (challenged only by the vast emptiness of space) and a high pressure phase transition occurring under sharpened steel blades, giving rise to a transverse to longitudinal coefficient of dynamic friction ratio of near infinity, an alliance of theory and experiment will be used to optimize the blade angle and thrusting force under various constraints in the investigation of a highly advanced linear motion machine. Simplifying assumptions allow linearization and superposition of solutions and thus allow the isolation of, and the independent consideration of such related topics as projectile paths and the many bodied interaction problem.

(Exit Nurd mumbling—"the

first order solution must be 35.264 degrees")

Jim: You mean to tell me that the ice I see floating around in my drink and the hockey pucks the food service ration out both have a more fundamental origin.

Voice: You bet! (gesturing toward the heavens) Their beginning must, of course, be attributed to the almighty power, but for practical purposes they form the foundation which underlies the very existence of the Hockey Club. As you must have heard the Caltech Hockey Club has established itself as one of the few (perhaps the only) winning sport at Caltech. Last year the Beavers finished third in their division behind Pierce and Valley J.C. and skated to a 12-10-1 season record.

Another Voice: That's right. I vividly recall the talents of first year players Norm Bobroff, Dave

Braisted, Eric Chael, Andy Gellman, and Kent Jennings. Oh! How I long to see their smooth young bodies perform again this season!

Voice: (pushing Another Voice aside)/The Club has lost its two leading scorers and is currently looking for new players. They practice once a week beginning in October and supply the necessary equipment to get you started.

(Enter Hero, having been listening from a distance)
Hero: (flashing a wide smile) I know the game. Where can I find out more and join the team.

Voice: Contact George Yates at Ext. 1105 or 1112, or at 792-8121.

Jim: (whispering into Voice's ear) Who's this Hero dude anyway?

Voice: I don't know. He could be any of us, maybe even you!

Make Music

by Flora Boyer

There are several different kinds of musical activities at Caltech, for new and old students, for faculty and staff, for amateurs and those who already have musical experience. Here is a list of the different groups and their audition times.

The Caltech Glee Club is really two organizations, the Men's Glee Club and the Women's Glee Club. The two organizations meet three hours a week, Mondays 7:30-9:30 pm, and Wednesdays 5-6 pm, separately. The two Clubs do present the holiday Festival of Light and the Spring Home Concert together, as well as coordinate their annual Repertory Camp. And this year, they will also be performing together at Dr. Marvin Goldberger's inauguration as Institute President, and at the Associates' Dinner at the Beverly Wilshire Hotel. Otherwise, the Clubs have separate

concert schedules. Their auditions are listed in the full-page ad else where in the paper. (page 6.—ed.) Also, there are several other smaller choral organizations, but it is necessary to belong to one of the Glee Clubs to belong to them. They include the Apollo Singers (a male octet), the Chamber Singers (a 16-20 voice mixed group) several Quartets (both male and female), the Chorale (for beginners) and other groups available upon request. Free voice lessons are also available. The Men's Conductor is Olaf Frodsham, and the Women's Conductor is Monica Roegler, and any questions can be answered on Ext. 2157 or 2197.

The Collegiate Symphony Orchestra also has an article elsewhere in the paper. Suffice it to say that the Orchestra is one of the most exciting and fastest-growing organizations at Tech. Kim Kowalke has molded the group into a professional-

sounding orchestra which has performed major works at several locations in LA, including a joint concert with the Occidental Glee Club.

Our newest addition is the Caltech Marching Band, which is actually a revival of an old tradition: that of having music at Tech's athletic contests. They will also play some concerts in second and third terms, including one at Disneyland. See the News Brief in this issue for more information. Tubas, anyone?

The guitar classes begin meeting Tuesday, October 3, in the Fleming Basement Instructional Music Room. Darryl Denning teaches classical and flamenco guitar, with classes open to anyone affiliated with Caltech (students are free). Beginning instruction is from 4:30-5:30 pm, and intermediate and advanced is 5:30-6:30 pm. For more information, call 650-1692.

On Wednesdays at 4:30-6 pm, beginning on September 27, catch Jim Boyk's Interpretive Music Class in Dabney Lounge. see MUSIC: Page 2, Column 3

at Home

More Jazz

The Preservation Hall Jazz Band will perform its own New Orleans jazz on Friday, September 29, at 8:00 pm in Caltech's Beckman Auditorium in Pasadena.

Led by veteran trumpeter Percy G. Humphrey, the band of seven musicians includes Allan Jaffe (tuba), Willie J. Humphrey, Jr. (clarinet), Joseph "Cie" Frazier (drums), James Edward "Sing" Miller (piano), Frank Demond (trombone, banjo), and Narvin Henry Kimball (banjo, bass). Most of these men have made and played jazz for over fifty years.

The "jazz" this band plays is jazz of an earlier age: music from the docks and saloons, the sporting houses of the red-light districts, the churches resounding with "shout songs," and the carnivals with their Creole quadrilles and marching brass bands.

The group takes its name from Preservation Hall, an old building at 726 Saint Peter Street in New Orleans. Built in 1750, the structure was a home in the heart of the French Quarter. It became an art gallery and later, in the 1950's, began housing performances by musicians who have kept alive the traditional jazz born in the first decades of this century.

Tickets are on sale now for the Preservation Hall Jazz Band's performance on September 29. For more information, call Caltech at (213) 793-7043.

Health Show in LA

The Total Life Show, billed as "the biggest health-bargain of the year," opens Thurs., Sept. 21, at 11 am for a four-day run at the Los Angeles Convention Center, Pico at Figueroa.

According to show producer Chuck McLaughlin, the event will feature 700 exhibits and demonstrations "all geared to get the public totally involved in getting the most—and the best—out of life." On view will be displays on health, nutrition, physical fitness, beauty, self-improvement, solar energy, organic farming, weight-loss, alcohol-drug abuse, ecology, communications, astrology, psychic arts and related fields. Upwards of 250,000 people are expected to attend.

Included in the line-up of guest speakers are Jack La Lanne, the physical fitness expert; Tom Hayden, political activist on solar energy; Arthur Bornstein, memory improvement; Peter Dukich, organic farming; John Ott, Sc.D., radiation see HEALTH: Page 7, Column 1

Editorial

No Pushing

Well, the subject I had intended for this editorial just fell through, so I guess I'll dredge up my standard advice-for-frosh(it is getting late, and there is the rest of the paper to do), so here goes:At Tech, people will rarely push you into doing things. This situation is really a mixed blessing. While you won't be forced to do things you don't like, you also won't be nudged to do things you should do, but put off, and you won't be pushed to do things that you might like, if you only tried them.

Tech has a pretty diverse range of things to do or get involved in. From academic research to newspaper work(hint, hint, hint) to competetive and noncompetetive sports the opportunities wait for you. And the key word is wait, for you must seek them, they will not look for you.

With, perhaps, one exception;if we don't get some more staff for this mangy yellow sheet, I may revive the old Royal Navy press-gang, and come by and collar some of you. Think it over, huh?

Have fun at Camp, and I'll see you there.

—ed. Bielecki

Swords & Starships

The Hugos

by Gavin Claypool

Frederik Pohl's *Gateway* was awarded the Hugo for best novel of 1977 at the 36th World Science Fiction Convention, held Labor Day weekend in Phoenix, Arizona.

It was the third major award for Pohl in less than eighteen months. *Gateway* also received the best novel Nebula, presented by the Science Fiction Writers of America last April, and a year earlier his novel *Man Plus* was similarly honored.

Runners-up, announced after the award ceremony, were *The Forbidden Tower* by Marion Zimmer Bradley, and *Lucifer's*

Hammer by Larry Niven and Jerry Pournelle. Also among the final nominees were *Dying of the Light* ("After the Festival") by George R. R. Martin, and *Time Storm* by Gordon R. Dickson.

The convention professional guest of honor, Harlan Ellison, became the second writer to be awarded six Hugos in the fiction categories. His most recent winner, "Jeffty Is Five," was also given the Nebula for best short story of 1977.

Another Nebula winner, "Stardance," by Spider and Jeanne Robinson, received the Hugo for best novella. The best novelette award went to Joan Vinge for "Eyes of Amber." Raccoona Sheldon's Nebula see HUGOS: Page 7, Column 2

Sept. 19-21

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ASCi MOVIE

On Catalina Island

From the Dean's Office

The Rocky Horror Picture Show

Next Week in Baxter

The Sting

MUSIC from Page 1

Jim is a pianist with a Mathematics degree, and leads an informal class which people are encouraged to come to and go from at their convenience. This is a great way to learn about appreciating music. Jim also teaches piano privately. For more information, call 475-8261.

If you are interested in Dixieland Jazz, call J.E. McKee on Ext. 1391. This is a small group of faculty and students, and they perform at several Institute happenings, like Alumni Day and Noon Concerts.

This year, both the Wind Ensemble and the Jazz Band are under the direction of Bill Bing. The groups put on a concert together in the spring, and usually perform once or twice for Noon Concerts. Also, the Jazz Band performs annually at the Ice House, a local nightclub. Individual lessons, or small groups, may be arranged also. Bill can be reached on Ext. 2157. Auditions for Wind Ensemble are 7-9 pm in Beckman Auditorium basement, and for Jazz Band from 9-11 pm in the same place, on Thursday, Sept. 28.

Last, but not least, is the annual Caltech Musical. This see MUSIC: Page 7, Column 3

The View from Outside

Welcome

I wish to bid welcome to all incoming freshmen, transfers, grads, and assorted personages to the California Institute of Technology. It is always exciting for me to greet fresh blood, new minds filled with the vital spirit of thoughtful exploration, seething with an unquenchable drive to unearth the treasures of human knowledge.

As I watch you newly arrived eager Beavers plunge into the depths of the knowledge which Caltech has to offer, I can't help but be concerned that such a frenetic zeal may be too consumed in itself: a hole dug too narrow, too deep, and too quickly without a sense of self, a supportive personal framework, may result in a premature burial. Indeed, I've known three Techers who died from suicide. There's also the problem, less tragic, but more common, that such senseless blind digging, without bringing the discoveries to the surface, that is, without putting

enough energy into communicating one's knowledge to others, may result in wasted effort: the jewels may tumble back down to the bottom of the hole.

Ideally, the knowledge which is excavated should be as relevant to humanity as it is to the digger. In other words, I believe there can be a certain quality to knowledge which is directly related to quality of life — that this certain quality is the ideal of truth (which Caltech is supposed to represent.) Life isn't solely the bigness, the quantity, of one's hole, it is also the form and content, the quality, of one's pile. There can be a certain beauty conveyed by the pile produced by human toil, a beauty that enlivens those who behold it.

I feel it is important for a student, as well as for everyone, to always reflect on his or herself and ask the fundamental question of whether what he or she is doing is bettering the quality of human life — not just quantity, not superduperness, but quality. I believe that a see WELCOME: Page 7, Column 4

The White House Fellowships

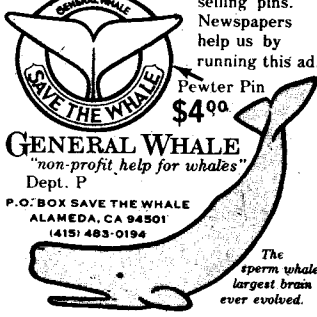


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The CALIFORNIA Tech

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Campus Paperback Bestsellers

September

1. The Thorn Birds, by Colleen McCullough. (Avon, \$2.50.) Australian family saga: fiction.

2. The Dragons of Eden, by Carl Sagan. (Ballantine, \$2.25.) The evolution of intelligence.

3. The Lawless, by John Jakes. (Jove/HBJ, \$2.25.) Saga of an American family, vol. VII: fiction.

4. Delta of Venus, by Anaïs Nin. (Bantam, \$2.50.) Elegant erotica: fiction

5. Your Erroneous Zones, by Wayne W. Dyer. (Avon, \$2.25.) Self-help pep talk.

6. Looking Out for #1, by Robert Ringer. (Fawcett/Crest, \$2.50.) Getting your share.

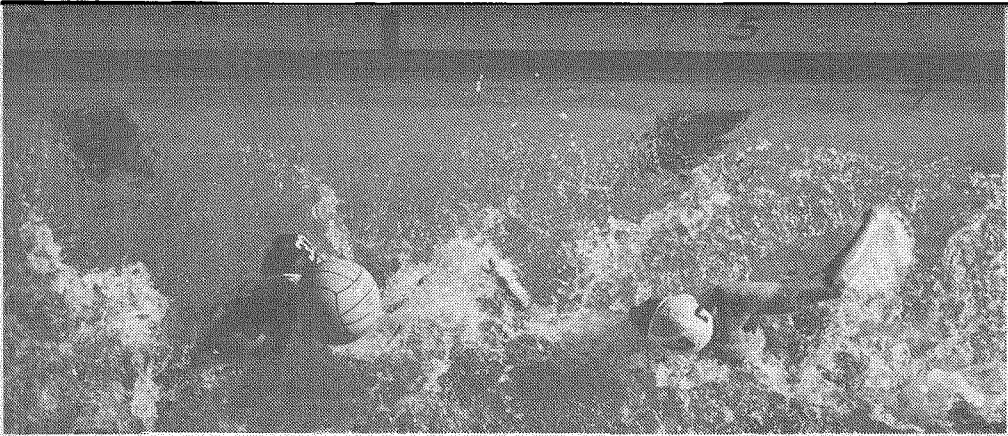
7. The Book of Lists, by David Wallechinsky, Irving and Amy Wallace. (Bantam, \$2.50.) Entertaining facts.

8. Passages, by Gail Sheehy. (Bantam, \$2.50.) Predictable crises of adult life.

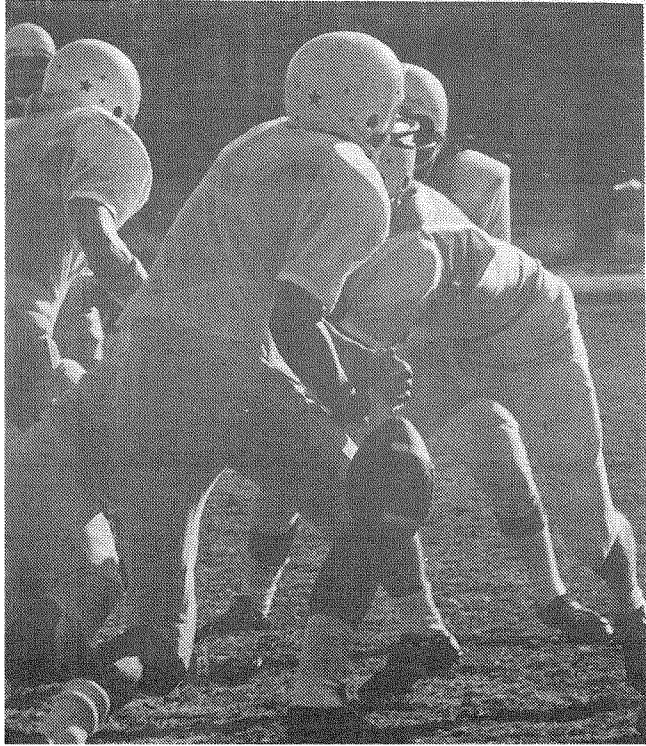
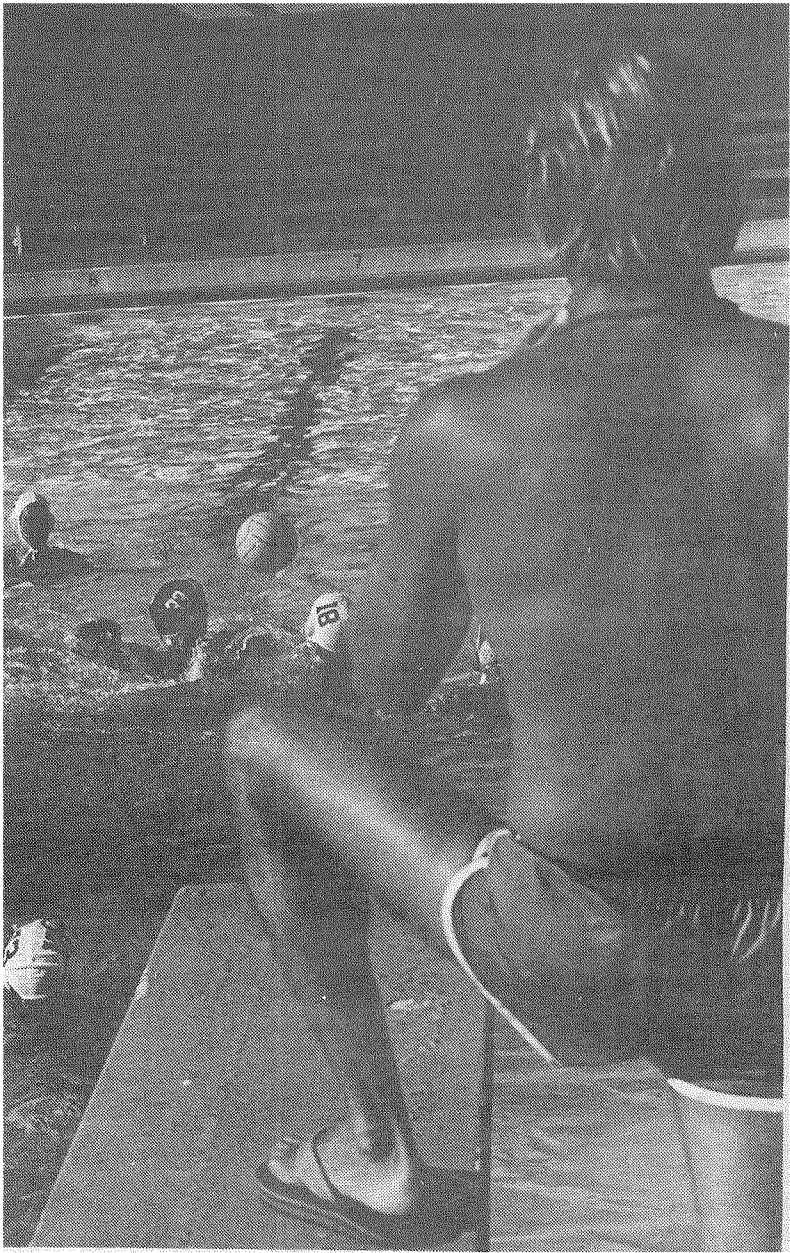
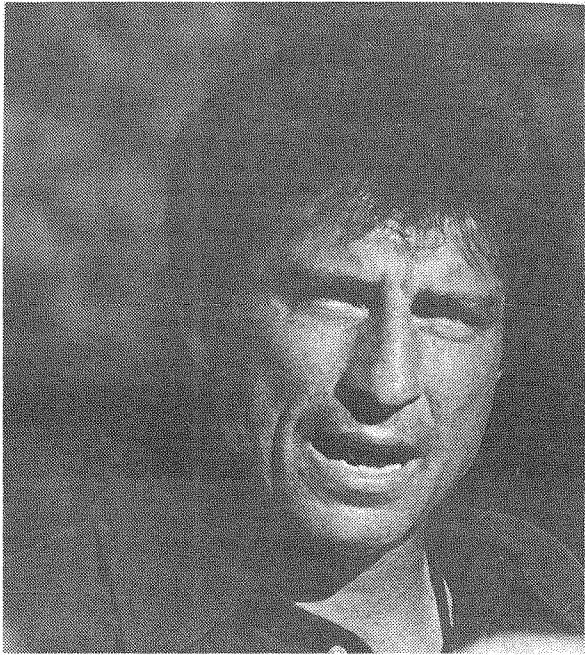
9. Jaws 2, by Hank Searls. (Bantam, \$2.25.) Gripping shark sequel.

10. The Sword of Shannara, by Terry Brooks. (Ballantine, \$2.50.) Fantasy novel.

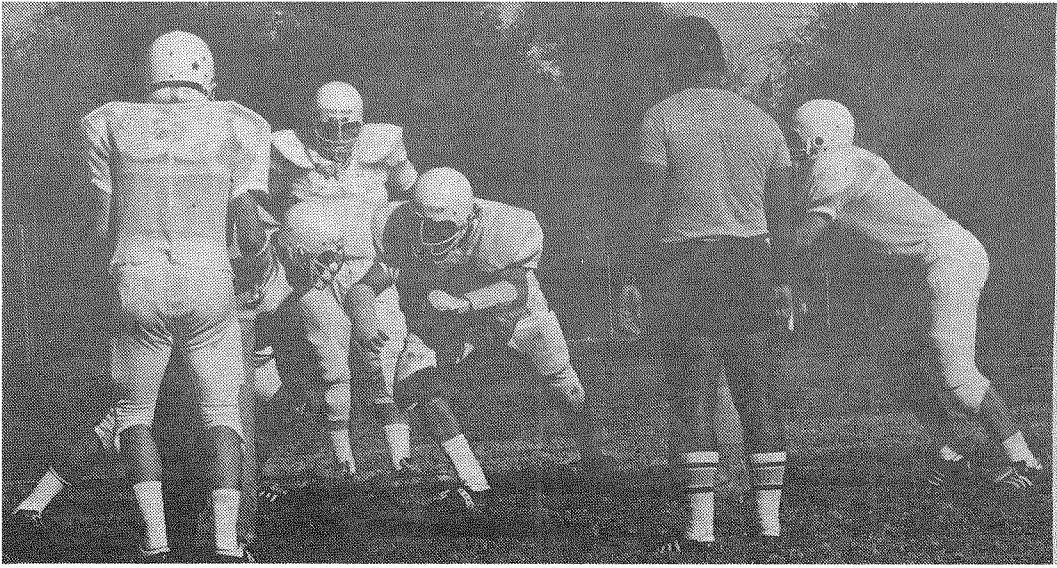
This list is compiled by The Chronicle of Higher Education from information supplied by college stores throughout the country.



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Photos
by
ed. Bielecki



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Andre, Robert G.	Ru	F1	Da	R1	L1	B1	Pa
Ang, Mung L.	R1	L1	Pa	Da	Ru	F1	B1
Arikan, Erdal	Ru	F1	B1	Pa	L1	Da	R1
Baca, Ralph	B1	R1	Pa	Ru	Da	L1	F1
Bachmann, Kurt T.	R1	Pa	L1	Da	F1	Ru	B1
Beckman, Ronald	R1	Da	Pa	F1	Ru	L1	B1
Beegle, Cynthia J.	L1	F1	Pa	Da	B1	Ru	R1
Bennett, John R.	Da	Pa	Ru	B1	F1	R1	L1
Betzig, Robert E.	B1	L1	Da	F1	Ru	R1	Pa
Bjernfalk, Jan N.	Ru	Pa	Da	R1	L1	F1	B1
Bliss, David	L1	R1	Ru	Pa	B1	F1	Da
Boyer, Flora	Pa	L1	B1	Ru	F1	Da	R1
Brandenburg, Roberta	B1	Da	Pa	R1	F1	Ru	L1
Bretherton, Christopher	R1	F1	L1	Da	B1	Ru	Pa
Brogden, Stacey F.	L1	B1	Pa	Da	R1	Ru	F1
Brown, Rita	L1	B1	F1	Da	Pa	Ru	R1
Buck, Robert J.	B1	Pa	R1	F1	Ru	Da	L1
Buss, Jonathan F.	B1	Pa	Ru	Da	L1	R1	F1
Campbell, Loudon	F1	Ru	Da	L1	R1	B1	Pa
Carlin, Michael	Ru	Pa	L1	R1	Da	B1	F1
Caruso, Mark B.	Ru	B1	L1	Pa	R1	F1	Da
Chan, Sam	Da	R1	L1	F1	Ru	Pa	B1
Chang, Eric Y.	Ru	Da	B1	R1	F1	Pa	L1
Chang, Kar Man	B1	L1	F1	Da	R1	Ru	Pa
Chang, Yii-na	Ru	B1	L1	Pa	F1	Da	R1
Chapman, William	F1	R1	B1	Ru	Pa	Da	L1
Chiang, John T.	L1	Da	R1	Ru	B1	Pa	F1
Chitjian, Mark S.	L1	R1	Pa	F1	Da	B1	Ru
Chobotov, Michael	Pa	Da	Ru	B1	R1	F1	L1
Chow, Kwok W.	R1	B1	L1	Ru	Pa	F1	Da
Clejan, Jean-Pierre	Ru	Pa	R1	Da	L1	B1	F1
Cohen, Ernest S.	Pa	R1	Ru	F1	Da	B1	L1
Cohn, Allen	Da	R1	Ru	Pa	B1	L1	F1
Colgan, Evan G.	Pa	L1	R1	B1	Da	Ru	F1
Colgan, Sean	B1	Ru	F1	Pa	Da	R1	L1
Collins, Robert L.	Da	F1	Pa	R1	L1	B1	Ru
Conley, Douglas	B1	Pa	R1	Ru	F1	L1	Da
Conneally, Tony	L1	Pa	Da	Ru	R1	F1	B1
Cooper, Kevin M.	L1	R1	B1	F1	Ru	Pa	Da
Crowe, William E.	R1	Pa	Ru	B1	Da	F1	L1
Cummings, Carrie A.	Da	F1	B1	Ru	Pa	R1	L1
Cummings, James M.	L1	Da	F1	R1	Ru	B1	Pa
Cushman, Drew	B1	R1	Pa	Ru	F1	Da	L1
Davis, Denise M.	F1	B1	Ru	L1	R1	Da	Pa
De Roy, John D.	Pa	B1	Da	Ru	L1	R1	F1
Deane, John	Pa	Ru	R1	B1	F1	L1	Da
Dellamore, Alan	F1	B1	Da	Pa	L1	R1	Ru
Dickerson, Daniel S.	L1	B1	Ru	R1	Pa	F1	Da
Dixon, Lance J.	L1	Ru	Da	F1	Pa	B1	R1
Doty, Michael M.	B1	Pa	Ru	F1	R1	L1	Da
Doughty, Kathryn	Ru	L1	Da	Pa	F1	B1	R1
Dowling, David R.	R1	B1	Pa	Da	Ru	L1	F1
Drapes, Peter W.	Ru	F1	Da	B1	R1	L1	Pa
Drisko, Kaitlin	Pa	B1	F1	Da	R1	Ru	L1
Eggleston, Mark D.	Da	B1	L1	R1	Ru	Pa	F1
Estridge, Paul B.	Pa	Ru	B1	F1	R1	L1	Da
Ewell, Malcolm W.	F1	Pa	Ru	B1	R1	Da	L1
Farson, Peter D.	B1	R1	Da	Ru	Pa	F1	L1
Faughnan, John G.	R1	B1	Da	Pa	F1	L1	Ru
Fearing, Amy E.	Da	Pa	Ru	R1	F1	L1	B1
Fernandez, Jacqueline	Pa	Da	L1	F1	R1	B1	Ru
Fish, Jo R.	Ru	F1	Da	B1	Pa	Ru	L1

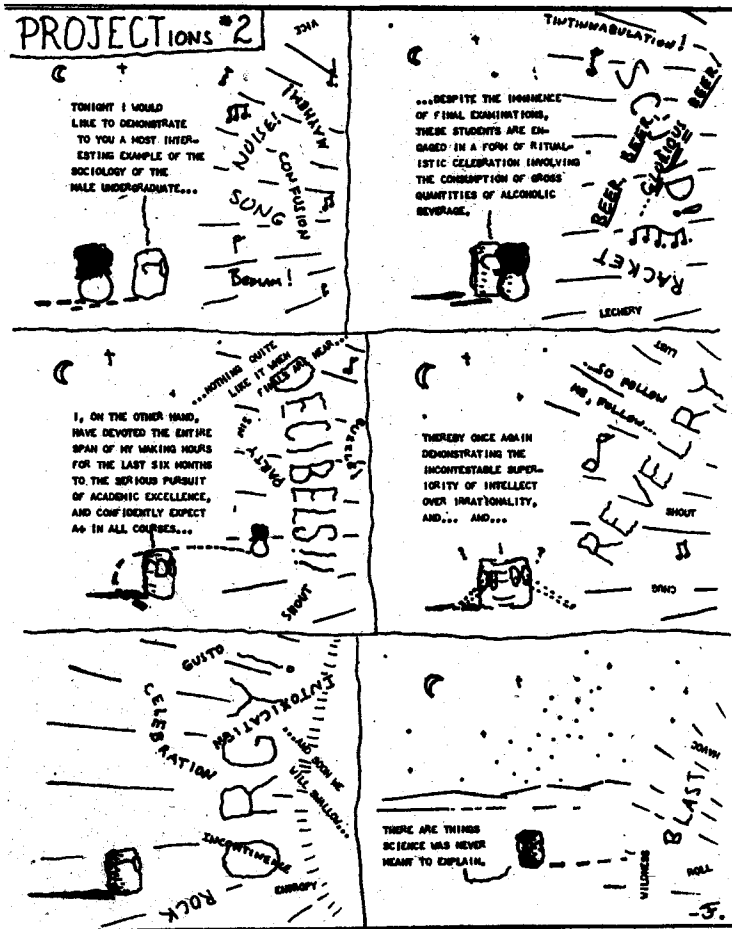
ROTATION

Fernandez, Jose A.	Ru	L1	Pa	B1	Da	R1	F1
Fernandez, Michael A.	R1	L1	Ru	Pa	F1	B1	Da
Field, Randall P.	Da	F1	Pa	R1	B1	Ru	L1
Fong, William	F1	Ru	R1	Pa	L1	Da	B1
Foster, Mark D.	F1	Ru	R1	Pa	Da	B1	L1
Fotowat-Ahmady, Ali	L1	R1	F1	Da	Ru	Pa	B1
Franklin, Lloyd P.	R1	Ru	B1	Da	Pa	L1	F1
Franz, Ronald J.	L1	Da	R1	B1	Ru	F1	Pa
Frieler, Clifford E.	Da	Pa	F1	B1	L1	R1	Ru
Fry, Robert A.	Da	Pa	L1	R1	F1	B1	Ru
Fuad, Ari	Pa	R1	Ru	L1	Da	F1	B1
Fujimoto, Susan A.	B1	F1	R1	L1	Ru	Da	Pa
Gardner, Susan V.	B1	R1	F1	Da	L1	Pa	Ru
Gaudet, Gregory T.	F1	R1	Da	Ru	L1	B1	Pa
Ghamati, Saeid	L1	B1	F1	Da	R1	Pa	Ru
Ghavamishahidi, Ghavam	R1	Da	B1	Pa	Ru	L1	F1
Gilstrap, Brent	Ru	B1	F1	Da	L1	Pa	R1
Gioumousis, Andrew	Da	Ru	B1	L1	Pa	R1	F1
Gralak, Raymond J.	Ru	F1	Pa	R1	B1	L1	Da
Gruia, Natalie R.	B1	L1	Da	R1	Pa	F1	Ru
Gullahorn, Gregory M.	B1	Da	L1	F1	Pa	R1	Ru
Haddad, George N.	Pa	Ru	L1	Da	B1	F1	R1
Hamidi, Shahram	Ru	Da	B1	F1	L1	Pa	R1
Hamilton, Lisa M.	F1	Ru	Da	L1	Pa	R1	B1
Hart, David H.	F1	Ru	R1	L1	B1	Da	Pa
Hartney, Mark A.	R1	Ru	L1	Pa	B1	F1	Da
Hawley, Christopher	R1	F1	L1	Pa	Da	Ru	B1
Helkey, Roger J.	L1	F1	Pa	R1	Da	Ru	B1
Henderson, Edith J.	F1	B1	Ru	Da	R1	Pa	L1
Hong, Pui Kwan	R1	L1	Ru	Pa	B1	Da	F1
Hsu, David A.	R1	Da	L1	F1	Ru	B1	Pa
Hsu, Stephen C.	L1	F1	Ru	R1	B1	Pa	Da
Hunts, Susan E.	L1	B1	R1	Pa	Ru	F1	Da
Hutchings, Jonathon	Pa	Da	L1	R1	F1	Ru	B1
Janeczek, Frank	Da	Pa	R1	Ru	B1	L1	F1
Januska, Robert J.	B1	L1	R1	Da	F1	Pa	Ru
Jensen, Jens H.	R1	Da	L1	B1	Ru	Pa	F1
Johnson, David C.	Da	R1	Ru	L1	Pa	B1	F1
Johnson, Matthew E.	R1	F1	B1	Ru	Da	Pa	L1
Juten, Christopher R.	F1	L1	Pa	Ru	B1	Da	R1
Katti, Romney R.	B1	Ru	F1	Pa	R1	L1	Da
Khaev, Alexander	F1	B1	R1	L1	Ru	Pa	Da
Khoe, David T.	L1	Pa	B1	F1	Da	R1	Ru
King, Henry H. C.	R1	L1	F1	Da	Ru	B1	Pa
Kirschvink, Catherine	B1	Ru	Pa	L1	Da	R1	F1
Kiselewski, Karen A.	B1	Pa	R1	L1	F1	Da	Ru
Koenig, Richard J.	L1	F1	B1	Ru	R1	Pa	Da
Kong, Michael M.K.	B1	R1	Da	L1	F1	Pa	Ru
Korycansky, Donald G.	B1	Da	R1	Ru	L1	F1	Pa
Koster, Randal D.	Ru	B1	F1	Da	R1	L1	Pa
Kuo, Cheng I J.	Da	Ru	B1	Pa	F1	R1	L1
Kuo, Paul C.V.	R1	B1	F1	Da	L1	Ru	Pa
Kuyper, James R.	R1	Ru	F1	L1	Pa	Da	B1
Lam, Dennis K.P.	F1	Ru	R1	Da	L1	B1	Pa
Lambert, Edward	Ru	L1	R1	B1	Pa	Da	F1
Lang, Robert J.	Pa	B1	L1	R1	F1	Da	Ru
Laroco, Leonardo A., Jr.	R1	Da	B1	F1	Pa	L1	Ru
Larsen, Shawn C.	Ru	B1	R1	F1	Da	L1	Pa
Lavan, Ethan	L1	F1	Da	B1	Pa	Ru	R1
Lay, Sabrina C.	L1	R1	Da	B1	Ru	Pa	F1
Leibovich, Alexander V.	F1	Ru	Pa	R1	B1	Da	L1
Leung, Johnny	Pa	Da	F1	B1	R1	L1	Ru
Levine, Lyle E.	Ru	B1	Pa	F1	R1	L1	Da
Loveall, John	L1	F1	Ru	B1	Pa	R1	Da
Low, Anita M.	R1	Pa	Ru	Da	L1	F1	B1

Lucero, Michael E.	B1	L1	F1	R1	Pa	Ru	Da
Luisi, Bonaventura	Ru	Da	R1	L1	Pa	B1	F1
Mahmud, Maqsood	R1	F1	Ru	B1	Da	L1	Pa
Mahoney, Duncan G.	Pa	Da	F1	L1	Ru	B1	R1
Martin, Peter J.	B1	Da	Pa	F1	L1	Ru	R1
Mathews, Richard M.	Pa	Da	B1	F1	L1	R1	Ru
McAllister, Linda b.	R1	Pa	Da	L1	Ru	F1	B1
McCarthy, Robert	Da	Ru	F1	L1	R1	Pa	B1
McDermott, James	R1	Da	Pa	Ru	L1	F1	B1
McIntyre, Joseph	Pa	F1	L1	B1	R1	Da	Ru
McLain, Brian T.	L1	R1	F1	Da	B1	Ru	Pa
McNally, John P.	Pa	F1	B1	Da	L1	Ru	R1
Meroz, Yoram	L1	R1	B1	Ru	Pa	F1	Da
Meyer, Frank	F1	R1	Pa	Da	Ru	L1	B1
Meyer, Stuart J.	Ru	L1	Da	F1	B1	Pa	R1
Michael, Scott	L1	Ru	B1	Pa	F1	Da	R1
Miller, Ilene L.	L1	F1	Da	B1	Ru	R1	Pa
Miller, Ronald L.	B1	Da	Pa	Ru	L1	R1	F1
Minahan, Joseph A.	Da	Ru	B1	F1	Pa	L1	R1
Mitchel, John O.	Pa	B1	F1	L1	Ru	R1	Da
Mithani, Samin A.	R1	L1	Da	F1	B1	Ru	Pa
Mobarry, Clark M.	Da	R1	Ru	L1	B1	F1	Pa
Moore, Ronald W.	L1	Pa	F1	Ru	B1	Da	R1
Moulton, Roger	Da	R1	F1	L1	Pa	Ru	B1
Nadler, Richard L.	F1	R1	L1	Ru	Pa	B1	Da
Naylor, William C.	F1	R1	Ru	Da	L1	Pa	B1
Ng, Kim Man	Pa	F1	L1	R1	B1	Ru	Da
Nordby, Frederick J.	B1	Da	F1	R1	Ru	Pa	L1
Olmos, Mark	Pa	L1	R1	B1	F1	Da	Ru
Paquette, Richard L.	Da	Pa	F1	Ru	B1	R1	L1
Park, Hisup	F1	L1	Ru	R1	Pa	B1	Da
Parker, Jonathan E.	Ru	Pa	F1	Da	R1	B1	L1
Paslaski, Joel S.	B1	F1	Pa	L1	Da	Ru	R1
Pauker, Armando	R1	B1	L1	F1	Da	Ru	Pa
Pearson, Michael L.	L1	Pa	B1	F1	Ru	Da	R1
Penninger, Lisa A.	L1	Da	Pa	F1	R1	Ru	B1
Phillips, Pamela J.	R1	Ru	Da	B1	Pa	F1	L1
Phillips, Richard R.	R1	Da	L1	Pa	F1	B1	Ru
Pickens, Karen L.	L1	Da	F1	Pa	Ru	R1	B1
Polson, William a.	Pa	Ru	B1	Da	R1	F1	L1
Poltrack, Leslie A.	F1	Ru	Da	R1	L1	Pa	B1
Prahl, Scott A.	Da	B1	L1	Ru	F1	Pa	R1
Price, Walter C.	Ru	R1	L1	B1	F1	Da	Pa
Quilliam, James	L1	Ru	B1	R1	Pa	Da	F1
Quinn, Brian B.	F1	Ru	Pa	L1	Da	B1	R1
Quinn, Forrest C.	B1	L1	Da	Ru	Pa	R1	F1
Randolph, Mark	F1	R1	Ru	Pa	Da	L1	B1
Rashedmarandy, Said	Ru	L1	Da	B1	Pa	F1	R1
Rasmussen, Eric B.	Da	L1	Pa	F1	B1	Ru	R1
Reeds, John W.	Da	B1	Pa	Ru	R1	L1	F1
Roth, Gerald B.	Ru	F1	B1	Pa	Da	R1	L1
Rotter, Lawrence D.	Pa	F1	R1	B1	Ru	Da	L1
Rubin, Geoffrey	Ru	B1	R1	Da	L1	F1	Pa
Rudman, Edward	F1	B1	Da	L1	Ru	R1	Pa
Sackinger, Phillip A.	Da	Pa	L1	F1	Ru	B1	R1
Saffman, Mark	Ru	R1	Da	F1	L1	Pa	B1
Sarchet, Sharron C.	Ru	R1	B1	Pa	L1	F1	Da
Scoby, James G.	F1	R1	B1	Ru	Da	L1	Pa
Scott, Eric P.	F1	B1	Da	L1	R1	Pa	Ru
Shah, Nimesh	L1	B1	R1	Pa	Da	Ru	F1
Shelman, Arthur E.	Da	R1	Ru	Pa	L1	F1	B1
Shore, Robert M.	L1	R1	F1	B1	Da	Pa	Ru
Sieck, Ken R.	Ru	Da	F1	R1	Pa	B1	L1
Smith, Wayne E.	R1	F1	Da	B1	Ru	Pa	L1
Snider, Frederick D.	Pa	L1	B1	R1	Da	F1	Ru

LIST

Snyder, William C.	Da	B1	Ru	R1	Pa	L1	F1
Speck, Don A.	B1	Ru	L1	R1	Pa	F1	Da
Stage, Sara W.	Da	F1	Pa	Ru	B1	L1	R1
Stinson, Kevin	F1	Da	B1	R1	Ru	L1	Pa
Stoddard, Patricia J.	Da	L1	R1	Ru	F1	Pa	B1
Straub, Derek E.	Da	Ru	F1	L1	B1	R1	Pa
Sumida, Dale	Pa	Ru	R1	L1	F1	Da	B1
Sung, Yun-Chen	Ru	R1	Da	L1	F1	B1	Pa
Swindle, Glen H.	B1	Pa	L1	Ru	R1	F1	Da
Thien, Michael P.	R1	B1	Ru	F1	L1	Da	Pa
Thomas, Paul D.	B1	Ru	Pa	R1	Da	F1	L1
Tiranuchit, Anuchit	Da	Ru	B1	F1	L1	R1	Pa
Todorovich, Mark	F1	Pa	R1	L1	Ru	Da	B1
Townsend, Carl W.	F1	Pa	Da	B1	R1	L1	Ru
Tran, Liem T.	Da	F1	R1	L1	B1	Ru	Pa
Trimble, Curtis A.	Pa	L1	F1	Da	B1	Ru	R1
Tudor, Lawrence M.	Ru	L1	Da	F1	R1	B1	Pa
Turyn, Michael	Pa	L1	F1	Ru	Da	B1	R1
Ungsuwarungsri, Tawach	Ru	R1	F1	L1	B1	Da	Pa
Vachss, Frederick R.	B1	Ru	L1	Da	F1	Pa	R1
Valdes, Ben	B1	Pa	L1	R1	F1	Ru	Da
Van Voorhees, Camilla A.	Da	L1	Pa	B1	F1	R1	Ru
VandeWoude, Susan J.	F1	Pa	Ru	L1	B1	Da	R1
Venger, Carolyn A.	Ru	F1	B1	Pa	R1	L1	Da
Villanueva, Juanito S.	Pa	L1	F1	B1	Da	R1	Ru
Vita, Peterpaul	Pa	L1	Ru	B1	R1	Da	F1
Vollin, Jeff L.	Da	Pa	R1	F1	B1	Ru	L1
Vu, Thiennu H.	Pa	Ru	L1	F1	B1	R1	Da
Wald, Linda A.	Da	L1	R1	Ru	Pa	B1	F1
Walker, Perry G.	L1	Da	Ru	Pa	R1	F1	B1
Walker, Richard C.	F1	L1	B1	Pa	Da	R1	Ru
Walter, Wallace F.	B1	Pa	Ru	Da	R1	F1	L1
Warfield, Keith R.	F1	B1	R1	Pa	Ru	Da	L1
Wette, Matthew R.	F1	Da	L1	Pa	B1	R1	Ru
White, Joseph L.	Ru	L1	R1	B1	Da	F1	Pa
Will, Luke J.	Da	Pa	B1	F1	L1	Ru	R1
Willins, John D.	R1	F1	Pa	B1	Da	Ru	L1
Wong, Peter W.	Da	F1	Pa	B1	Ru	R1	L1
Younge, David C.	Pa	L1	Da	R1	B1	Ru	F1
Zacharias, John B.	F1	Da	B1	Ru	L1	R1	Pa
Zaretsky, Graham S.	Pa	F1	Ru	B1	R1	L1	Da
Zsolnay, Denes L.	Ru	Da	L1	R1	F1	B1	Pa





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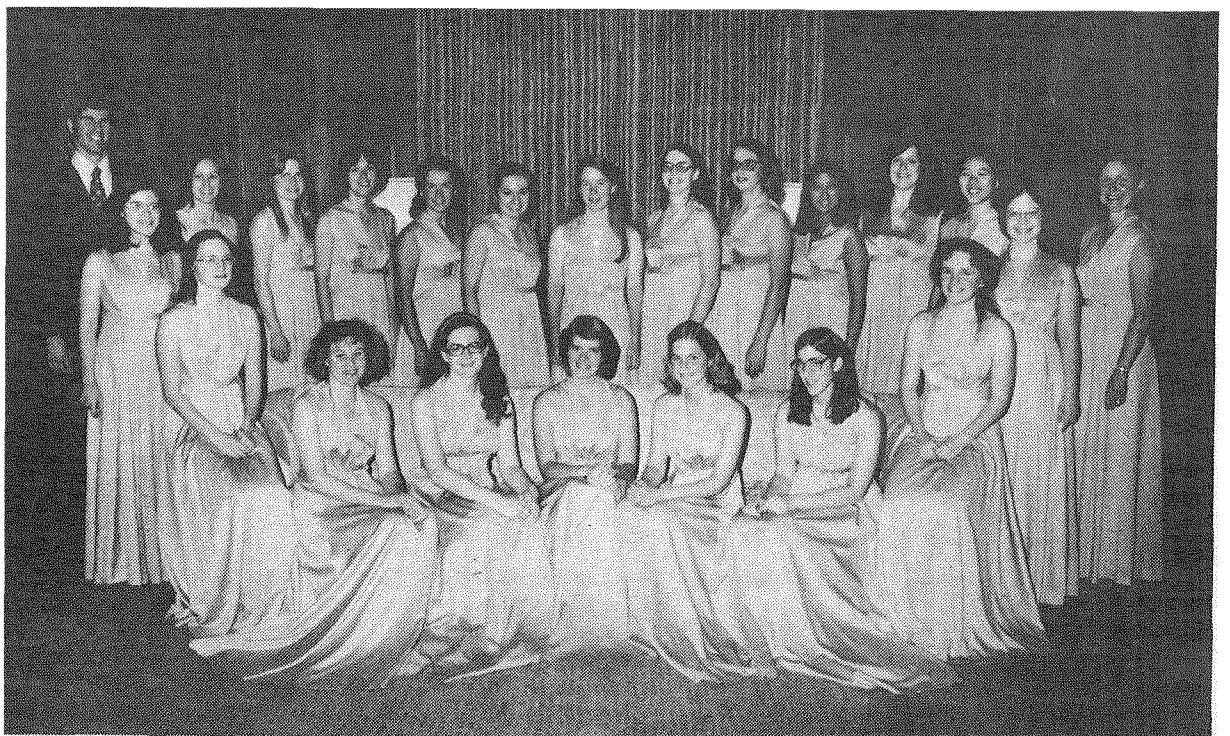
Tryouts

Choral Music Office * Fleming Basement

Sunday, September 24 & Monday, September 25

3 to 6 pm & 7 to 8pm

First Rehearsal: Monday, September 25, 8 to 9:30pm



HEALTH from Page 1

pollution; Benjamin Frank, M.D., no-aging diet; Mark Bashara, Ph.D., astral projection; Jeraldine Saunders, astrology and psychic arts.

Also, Julian Whitaker, M.D., reversing heart disease and diabetes; John Marshall, on using both sides of the brain; Ed Harmon Ph.D., self-esteem as the key to love-ability; Harold W. Harper, M.D., early detection of cancer; Richard Barmakian, hypoglycemia solutions; J. De Witt Fix, M.D., neck pain and headaches; Roy Masters, overcoming negative emotions; Edwin Flatto, M.D., sex and physical fitness; and many more.

Admission at the door is \$2.50 per day; \$1.50 for senior citizens, students and youngsters six to 16. There is no charge for children under six.

"Our 'Total Life' concept involves learning and fun," emphasized producer Mc Laughlin, "so we'll also be having contests, door prizes, entertainment, a Miss Total Life beauty pageant, a fashion show and disco dancing from 11 pm to closing 2 am nightly. Where else can you get it all for the bargain rate of only \$2.50 per day?"

Additional information can be obtained from the Total Life headquarters, 1910 Sunset Blvd., Los Angeles, CA 90026, phone (213) 413-6880.

Gad!

Then there was the coed who soaked her strapless evening gown in coffee to make it stay up all night.

HUGOS from Page 2

winner, "The Screwfly Solution," placed third.

The best dramatic presentation Hugo was won (not surprisingly) by *Star Wars*. It was the only winner to receive a majority on the first count (voting was by "Australian ballot," a form of voting by order of preference). *Close Encounters of the Third Kind* was second.

George Scithers won his third Hugo, this time as best professional editor, and breaking Ben Bova's stranglehold on the award—Bova had been the winner for five straight years. Scithers, now editor of *Isaac Asimov's Science Fiction Magazine*, won his earlier awards for the amateur magazine *Amra*.

Phil Foglio, winner of the Hugo for best fan artist for the second year in a row, announced he was withdrawing his name for future consideration. This sentiment was echoed by Rick Sternbach, who was awarded the best professional artist Hugo for the second straight year, and by Charles N. Brown and Dena Brown, who received their fourth Hugo as editors of *Locus*. Ellison announced, while accepting his Hugo, that next year he would accept any nominations.

Richard E. Geis was voted best fan writer for the fifth time, and was the only Hugo winner not in attendance. Elton Elliot accepted for him.

The John W. Campbell Award for best new writer went to Orson Scott Card, whose novelette "Ender's Game," placed

second in the Hugo voting.

Poul Anderson was honored for his lifetime work in fantasy with the Gandalf Award for Grand Master of Fantasy. A new Gandalf Award, for best book-length fantasy of 1977, was given to *The Silmarillion*, J.R.R. Tolkien's unfinished masterwork which was edited by his son, Christopher Tolkien.

John Varley was the hard-luck writer this year—his two nominated stories, "In the Hall of the Martian Kings" and "Air Raid" (written as Herb Boehm), placed second in the novella and short story categories respectively.

The total number of ballots counted was 1246; 1220 votes were cast for the best dramatic presentation. Each fiction category received over a thousand votes; for all awards, the average was about 1040 votes each.

MUSIC from Page 2

year, *Music Man* will be presented in February, 1979, and auditions are in November. If you sing, dance, play an instrument, do stage-crew kinds of things, or just want to walk across the stage, call Flora on Ext. 2157.

As you can see, Caltech offers a variety of musical things to do. Please give at least one a try. Music is a way to meet new people, relax, and to get a change from studying.

Egad!!!

And then there's the fellow who offered his girl a Scotch and sofa, and she reclined!

WELCOME from Page 2

recognition of quality arises from a critical evaluation of one's world. What I mean by "world" is not limited to self, but expands to encompass society and the history of society. To be able to reject certain aspects of the world is as important as acceptance, for otherwise what is known as quality becomes an indiscriminate stew which tastes of both poison and nutrition.

I believe an integrated and complete individual is one who lives according to his or her concept of quality; and since an individual is an active being relating to others, that is, to society, an individual acts to effect the quality of life of society, he or she realizes the extent to which his or her life is a political struggle.

I would like to facilitate the Caltech community in achieving a political awareness. To do this, I intend to write articles in this paper which express my own personal views. More importantly, I would like to help establish lines of communication between interested Techers and outside political activists (and groups) by publicizing political events outside Caltech.

Now for starters, let me remind all those 18 and over who aren't registered to vote to register. The deadline to register for the up-coming November 6 election is October 9. Not only is the governor's chair up for grabs, but also there are some extremely important propositions, such as Proposition 6, the anti-homosexual teacher measure, and Proposition 7 that calls for a greater use of capital punishment. You can register to vote up in the Caltech Y. Just ask for Walt Meader. He'll take care of you. For information, the *L.A. Times* is a good starting place, especially the editorial section. The Opinion page on Sundays usually has some very good in-depth articles. If you'd like to be involved in local Pasadena politics, read and contact *New Pasadena* magazine which is usually available at Poo-Bah Records at the corner of Walnut and Wilson. On Sundays at 11 a.m. tune in to KPFF at 90.7 on your FM radio dial for Dorothy Healey, a longtime political activist. She has a rather

interesting talk show with a different perspective. Those interested in working for the Committee Against the Briggs Initiative (CABI) should contact me at x2803.

—Robert Tajima

Join the Symphony

The Collegiate Symphony Orchestra will be holding auditions for new and old members 3-6 pm and 7-10 pm Sept. 25 in 25 Baxter. Sign-up sheets for try-out times are posted on the instrumental music Bulletin Board in Winnett. Auditions at other than the scheduled times can be arranged by calling Kim Kowalke at 259-2877.

Membership in the Orchestra is open to all members of the Caltech, JPL, and Occidental College communities, including students, faculty, staff, and their families. The orchestra is under the direction of Dr. Kim Kowalke, and meets regularly twice a week for rehearsal at Oxy. Planned upcoming events this year include a Halloween night sometime around Halloween (good timing), a "Viennese Night" of Strauss waltzes and an opera.

We need new talent to replace last year's graduating seniors, and encourage all eligible instrumentalists to audition, especially freshmen and faculty. Last year's members are asked to re-audition so that fair seatings may be determined. Auditions will last approximately 10 minutes and auditioners are asked to prepare a short (2 to 3 minutes) solo. *Don't miss this opportunity to join a real, live symphony orchestra!*

For more information, see Fan Tao in 204 Page, Vicki Edwards in Blacker, or Jim Heckman in Ricketts.

Wurf?

Bobby was asking questions: "But Papa, if God makes some girls brunettes and some girls blonde, who makes the red-headed girls?" "You know," replied Papa absently, "I've often wondered."

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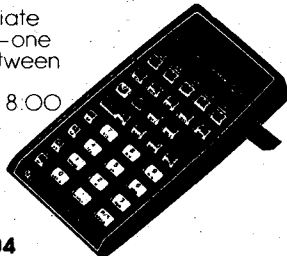
HP-31E	Scientific	\$ 49.95
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News Briefs

Be Secure!

The Campus Security Office would like to remind all students, staff, and faculty to register all vehicles (including motorcycles and bicycles.) Pick up your parking decal in the Campus Security Office, room 204 of building 85 (367 South Holliston) between 8:00 a.m. and 5:00 p.m., Monday through Friday.

Use Some Money?

Scholarships are available to graduate and undergraduate students of Hispanic American background from the National Hispanic Scholarship Fund. Applicants must have completed at least two quarters or one semester of college work prior to the submission of their applications. In addition, applicants must be U.S. citizens and presently enrolled as full-time students. Applications may be submitted between September 1 and October 20. Awards will range from \$200 to \$600. Applications are available in the Financial Aid Office, 208 Dabney Hall.

Move That Tuba!

This term, a great Caltech tradition will be revived; the Caltech Marching Band. Our first rehearsal will take place Tuesday, October 3rd, from 7:30 to 9:30 p.m. in Beckman basement. Attendance at this rehearsal by all Band members is vital, as our first performance will take place Saturday, October 7th. If you are interested in becoming a member of this facet of Caltech's music program, either come to the first rehearsal, or contact Ken Shrum, 240 Ruddock, X2182.

Lockout!

The Game Room, WATS Line room, Y workroom and Winnett locks will be changed Monday morning, 9-25-78. New keys will be available after 10 am in 105 Winnett. If you have an old Game Room key, you must turn it in to get a new key or pay a \$2 lost fee.

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Tuesday the 26th.

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