Goodstein Details Advances in High-T Superconductivity

by Craig Volden

Then, superconducting temperatures began to shoot up. Bednorz and Muller found superconductivity at 30 K. Chu et al., in Houston, at 93 K (above both liquid air and liquid nitrogen, thus reducing the low-temperature expense considerably); the news media, 400 K (above room temperature). Not only did the press jump ahead of the research, but the business world also immediately wanted to benefit. Marathon seminars were held, newsletters dispensed, and journals released. Goodstein classified these as the "only successful commercial products" of high temperature superconductivity so far.

Suggested applications are varied. Rebuilding our system of power transmission to save electricity was suggested. However, high magnetic fields can't get the advantages the present system loses only about ten percent power as opposed to zero percent for superconductors; the materials of high temperature superconductivity are expensive and difficult to produce; superconductivity would only allow direct current; high temperature superconductors, so far, carry one thousand times less current than conventional superconductors; and problems with one part of the system would produce heat transfer, causing a meltdown of the entire system.

Because of their ability to produce large magnetic fields, the new superconductors have taken new possible applications. Super-speed trains were suggested. However, economic unfeasibility and general nervousness about safety have put damper on this usage.

Other suggestions which Goodstein mentioned include a superconducting supercollider, applications to nuclear fusion (unfortunately, the new ceramic materials are subject to radiation), energy storage for SDI or evening power supplies (but problems with huge magnetic pressures on the pottery and with switching to this system make this option questionable), use in computers, and use in space. Goodstein felt that superconductors would eventually be used in computers to allow very high speeds through very small parts without heat or meltdown. The applications in space involved the aspect that the temperature in space is already very low. Some possible uses are magnetic guidance systems for re-entry, propulsion systems, motors, and generators.

As of yet, physicists have not concurred on a theory of why superconductors work or what the highest temperature for the pool would be. This summer, Professor William Goddard of Caltech released a specific theory based on the materials and properties of superconductors which stated that the maximum temperature is 225 K (warmer than dry ice, but substantially colder than room temperature).

Goodstein also mentioned another theory that the late Richard Feynman had once projected. The material of highest superconductivity will be found to be scandium, Feynman stated, because it seems to have no purpose yet discovered.

Goodstein spoke of possible progress forward, and concluded with a chart on mankind's long-term progress. The human race passed from the pottery of the Stone Age, through the Bronze Age and the Iron Age, to the Modern Age and, in the last two years, into the "pottery of high temperature superconductors."
The California Tech
October 28, 1988

opinion

To the Editors:

Ever since printing was discovered, it’s been said “never judge a book by its cover.” I think no one is this more germane than in the 1988 Big T. Granted that several items in the yearbook could (and probably should) have been presented differently, I never-the-less strongly believe that last year’s editors made a right-thinking decision by the ASCIT Board of Directors, who voted last week to award the 540$ ($1000) to the By- Laws ($500 salary, $400 bonus, and $200 for 2 Assistants). The first, and probably most complete, cover of a yearbook by the editors completed their work substantively. Foremost on the list of the editors is the line drawing of the Fleming cannon on the cover. It’s been correctly stated that the judgement of the editors was probably erroneous, who, by placing their House’s symbol on the student-body yearbook have pitted Fleming against the rest of the campus. It’s hard to blame the editors for performing their duties in an unsatisfactory yearbook. Of course, the editors do deserve far less compensation than normally granted, is a different matter. But their decision was one of the most controversial symbols on the Big T. There are countless man-hours spent on gathering senior pictures, colorizing photos, arranging club sections, organizing page sections, shooting sports pictures, typesetting page contents, and discussing general format. The cover is one item many of the editors are responsible for. Extra- long number pages have never been a cover to an unsatisfactory yearbook. Of course, the editors performed their duties not according to one’s satisfaction the cover last year. If the editors put down a map on the Big T. It is the result of the calculations, which could not be judged as unsatisfactory by any measure. I therefore submit that the Big T is not only correct but also fair because of the Fleming cover. Therefore, I firmly believe last year’s editors should receive the $400 bonus, but also be commended for their work in the material three weeks early. I think the BOD has committed a serious error in judging the yearbook only by its cover.

Sincerely,

Bassam Mora
Business Manager
1987, 1988 & 1989 Big T

continued on page 3

LETTERS

THE CALIFORNIA TECH
Volume X C • Number 6
October 28, 1988

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THE CALIFORNIA TECH

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Letters and comments are welcome. All contributions should include the author’s name and phone number. Letters should be typed and double-spaced. The editors reserve the right to edit for expediency, literacy, or other.

Turn in copy (preferably on an IBM-computer) by 1000 p.m. Friday to the Tech office mail slot at the Tech. The dead-line for copy is Wednesday at 5 pm; the deadline for illustrations is Thursday. Late copy may not be printed even if production schedules have been made with the editors.

To the Editors:

Ever since printing was disco

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I, too, have come to the realization, that for the past years (even decades), the Big T has been used by its editors for the sole purpose of making us think the way they want us to. Though the subtitles in the title page and the table of contents are merely a result of the distribution of the cover which is already written in the previous section to be paid, we are forced to change the title page and the table of contents in the above-mentioned article by P. Ste. Marie.

As far as John Woolverton that don't have the new Caltech tee shirt or dorm to park in a good spot, we have a few more spaces.

As a secondary note, I would like to point out the connection between the late 1987-88 Big T editors and I. Especially when you consider what Carson has been members of Fleming House, Curt had Hagenlocher, and Tom O'Neill was just so that more "important members of the Caltech community, our cars into the long-term lot. My parking wish list, how about a few more spaces.

As to the California Tech, there were a case of "Tech editors were Ernie." I am sure that if the editors were to illustrate Woolverton's conception between the late little little T and its membership in the unsuccessful candidacy for Tech editor. Regarding my feelings toward Fleming House, I want to say that many of their group activities highly an- noyed me. Fleming House, many of my friends have been members of Fleming House, I am surprised that you even uses the reserved spaces at the bottom of the "blue triangle" parking stickers. And as long as we're counting parking stickers, a change will affect many people. For instance, giving us the statistics on the as- signed spaces at the bottom of the structure. A lot of people are affected by this. We would serve everyone's needs better if we elimi- nated a to do such be transferred to the World Series title (Lasorda). In a world where it is increasingly clear that we have a Ph.D. I hope that in several months we can see the actual red cover on a red red. It won't be.

To the Editors:

Yeas from now on, the only memories of Caltech many of us will have will consist of a few chrome lampposts and a yearbook called the Big T. As editors of the 1988-89 Big T, we know that we have an obligation to provide a yearbook that represents the complete academic and administrative departments.

Many has been said regarding the 1987-88 yearbook's apparent failure to represent a cross-section of the student body. In fact, among the many articles in the liberal arts section, for example, the color section, which will be protected by the late little T editor that I would like to point out the connection between the late 1987-88 Big T editors and I. Especially when you consider what Carson has been members of Fleming House, Curt had Hagenlocher, and Tom O'Neill was just so that more "important members of the Caltech community, our cars into the long-term lot. My parking wish list, how about a few more spaces.

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spot, decides to give them a taste of how it feels to be interrupted during an intimate moment.

"I'm sorry, Captain. I know you said 'Phasers on stun,' but I guess I had the darn thing set on 'dice' by mistake."

"Well, he's right, Henry. This donor agreement doesn't say anything about when the organ has to be donated."

"I'm sorry, Captain. I know you said 'Phasers on stun,' but I guess I had the darn thing set on 'dice' by mistake."
The California Tech

October 28, 1988

entertainment

by Amanda Heaton

As you walk into Ramo Auditorium just before a performance of TACT's first-term production, Moliere's The School for Wives, directed by Shirley Marneus, the first thing you notice is the precursors of the excellent production. The superb lighting design, accomplished by Rex Rogers from OPE, adds immensely to the show. (The sunrise should not be missed.) At this point, we also gain some appreciation for the costumes, which only increases as the evening progresses. Costume designer Maureen O'Heron designed and built about half of the costumes specifically for this show, an impressive accomplishment given the elaborate period dress required. The hair styling, done by Terry Robinson, also contributes to the beauty of the dress, with curled wigs gracing most of the actors. Finally, Chrysalide (Don Huntington) arrives on stage, and the play proper begins. He greets Arnolphe, M. de la Souche, who quickly conveys to the audience the intent of the play. He means to protect the girl of his affections, Agnes, as the two iniquitous factions of information flow, in a way.) The main characters are a failed lady wizard, a con man, and a third-rate demon whose specialty is cataloging information. (A demon of information flow, in a way.) They bumble and stumble their way along, trying to save the world from itself.

The book is good, but unfortunately not great. The best character is the demon cataloger, Astron. The con man is too much like the typical rogue with the heart of gold, and the lady wizard is (literally) carried along for the ride for the reader.

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The serious side of the show does have its moments as well. In particular, the show’s most memorable song, “I Dreamed a Dream”, is Fantine’s lament after losing her job and finding her life in shambles and is sung beautifully by Elizabeth O’Connell. But the show’s greatest dramatic moment is appropriately, its climax where Cosette and her soon-to-be husband learn the true extent of Jean Valjean’s good deeds.

Although the plotline is excellent, many people are more interested in the music and choreography of a musical than its story, and in these departments Les Misérables also delivers quite well. The songs range from pleasant to outstanding with most of the songs in the good range and at least three that in the superlative range. Likewise, the choreography is, for the most part, quite good and very appropriate. In the comic scenes, the you want a little non-standard fantasy. It’s not a book that I would recommend to someone who has never read a musical novel before, and you really should read the first two novels before picking this one up.

* * *

Halloween approaches, and a local bookstore, Planet 10 (79 N. Raymond Ave. in the Old Town part of Pasadena) is celebrating with an open Halloween party on Sunday, October 30, from 2-4 pm. Coinciding with the party will be a music party with several less-than-superb but still-OK horror writers, including Steve Boyan. The Planet 10 people are encouraging people to visit the store in costume, to use your imagination and have a little fun.

— Nick Smith

**Riddle**

from page 5

choatic for even a demon to enjoy. The best bits of the book are a musical drama that captures the emotion and intensity of Victor Hugo's classic novel while still appealing to the masses. The result is a combination of music, comedy, and pop opera. Ironically, it is the musical comedy that works best. The book's best scenes revolve around an unlikable inkeeper and his wife who have been "taking care" of Cosette for Fantine. These songs, especially "Master of the House", are wonderful fun at marriage and hypocrisy.
Sports:

Page: 10

**Caltech Women's Volleyball Team on Winning Streak**

by Lynn Hildemann

The Caltech Women's Volleyball club posted their first win of the season two Saturdays ago, at a home game versus Mt. St. Mary's College, winning in three straight games, 15-9, 15-7, 15-9. The Caltech team had a decided advantage over Mt. St. Mary's in their ability to consistently get their serves over and in. In addition, the Caltech Women's Volleyball team exhibited a tenacity that had been lacking in many of their previous games. On two occasions, players successfully chased down waves past out of the court and saved points and the ball back over. Another time, a well-placed stinger by the Mt. St. Mary's team left five out of six Caltech players on the floor valiantly trying to get the ball up and over.

Lorna Linda

A week ago, the women went on the road to face a new opponent for this season, Loma Linda University. When they found a team much like themselves—a bunch of "manic depressives in sync" who played game well at some times and absently at other times! The characteristc frequencies of the ups and downs of both teams coincided with the games of the match. Caltech stomped on Loma Linda in game 1, lost convincingly in game 3, and went out to lunch for game 4. The most the losing team managed to score in any of the first four games was six points.

Since competing volleyball teams change sides after each game, and also alternate who begins serving a game, it turned out that the winning team for each of the first four games had played on the north side of the gym and had begun serving. Loma Linda won the toss for the final game of the match and elected to serve: Caltech chosen to receive serve of the north side of the gym. Superstitiously hoping it would prove to be the key to winning.

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**Service League: Forty Years of Being There for Tech Students**

by skirted

The Caltech Service League was founded in 1947 for the purpose of providing assistance to the welfare and happiness of Caltech students. Today, 41 years later, the Service League has earned the confidence of many of its members.

The money used for various campus projects is provided by dues of $10 per year plus funds raised at the annual Benefit Plant and Bake Sale and other donations. These projects include sponsoring, with the Institute, freshmen Parents' Day, in cooperation with the Cal Y, giving financial donations to help students buy such things as milk fresh fruit and vegetables for Deception examinations, and a subscription to the L-A Times at the Health Center. Other support includes giving money to each of the undergraduates' households for Thanksgiving dinner, packing 13 Christmas boxes with purchased and home-made goodies for each undergraduate and graduate student. Grad students with families are provided a Women's Clinic with check-ups and immunizations at a nominal fee. A Baby Furniture Pool with cribs, high chairs, etc., is available to students. Research fellows and visitors to the Institute may borrow from it as long as equipment is available.

Student activities on campus can receive cash donations from the Service League upon written request. Each request is given individual consideration. The League has given to the Men's and Women's Glee Clubs, ASCIT drama productions, Big T Freshman Camp, individual House requests, TACIT, Villa Apartments for play equipment and other campus organizations.

Any campus organization needing assistance is encouraged to send a written request outlining what it needs and how the money is going to be spent and other sources of funding. Each letter will be considered on an individual basis and money allocated as deemed appropriate.

For further information, please send a written request to the Caltech Service League through campus mail. The address is: Caltech Service League Caltech 104-6 Pasadena, CA 91125

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**Happy Hour at the Dentist**

New Patient HAPPY HOUR SPECIAL (Tues. & Thurs. 2-6 p.m.)

Cleaning/Exam $18.00 (reg. $70.00)

Results

Crest Whitening Strips $25.00 (reg. $30.00)

Children's - $7.00

Women's - $9.00

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Page: 6

**Tech Students**

**Deputy Supervisor for Computer Development**

Major Scrap Metal Co. has opened in its Computer Department. Applicant must have both clerical and organizational skills. He/She shall coordinate and supervise the Supervisor for Computer Development. Duties include in all computer and clerical details. Applicant must be proficient in FullWrite, Word, MacDraw, PageMaker and Excel, and have extensive programming experience, and be familiar with HyperCard & 4D. We offer an excellent salary, benefits, and an opportunity to grow in a fully equipped Macintosh development environment. Our Scrap Metal firm has been in business since 1927. Only individuals seeking serious long-term employment and advancement need apply.
Unlike the first four games, the final game seesawed back and forth, with neither team playing particularly well or particularly poorly. With Loma Linda serving for game point at 14-13, it initially appeared they had won when a Caltech spike went out of bounds. However, both teams had touched the net, and the referees ruled that Loma Linda had netted first, making it side out. Junior Carol Choy then served three straight to win the game for Caltech, 16-14.

Barstow

Last Saturday, Caltech faced Barstow College at home. After Wednesday's draining match, the Caltech women initially looked sluggish on the court and were not playing up to par. However, Barstow proved to be an easy opponent, and Caltech soon perked up to the challenge of trying to run some new offensive plays off the easy serves of their opponent. A highlight of the match, which Caltech won in three straight games, was successfully running a "one" in the middle with graduate student Christine Wilson putting away the kill.

Caltech's Team

Caltech's volleyball team has benefited this year from having a roster with substantial depth. The consistent play and frequent stuffs of middle blockers Courtney Smith (ST), Hsiaolan Hsu (GR), and Chris Wilson have been pivotal in this season's victories. Power hitters include grad students Julianne Moses and Lorraine Hwang, seniors Karen Oegema and Betsy Andrews, and staff member Carol Mayeda. Lefty Carol Mullenax (SR) contributes to the off-hand hitting, and Carol Choy (JR) plays

continued on page 10
Top League Teams Outrun Beavers

by Scott Kister

Last week, the Tigers, Stags, and Sagehens outran the Beavers on Caltech's home course. No, Caltech's course is not a wildlife preserve. For those of you not up on SCIAC college nicknames, the Occidental Tigers, Claremont Mud-Scripps Stags, and Pomona-Pitzer Sagehens are the conference's top three teams in cross-country.

Since the conference champion is determined by this meet and tomorrow's championship meet, the teams were all business. In fact, Claremont made the race interesting by having their slow runners race in front and not let Occidental or Pomona-Pitzer runners pass them.

The strategy did not work against Occidental. Both the Oxy men's and women's team easily won. Claremont was second, Pomona-Pitzer third, and Caltech fourth in both men's and women's competition.

Most of Caltech's runners improved their time from the first home meet of the year, three weeks ago; but other than Jerri Martin, no Caltech individual placed in the top nineteen.

The Women

Martin had beaten every runner in the conference she had faced. However, this was her first race against Occidental and Pomona-Pitzer. For most of the 3.2 mile race, she ran with the lead pack. With about a half mile to go, Martin, three women from Oxy, and one from Pomona broke away.

Martin beat the Pomona runner, but the three Oxy runners finished ahead of her. Martin's time on the course was 20:06, just fourteen seconds behind first place.

Margi Pollack ran her best race of the season to finish in 23rd place. Her time of 22:33 is 45 seconds faster than her time at the first home meet. Bibi Jenoff-Nilson was 27th in 23:28. Golda Bernstein finished in 23:55.

Freshman Emmeline Naranjo improved by over 90 seconds to 24:58. Liz Warner finished in 25:20, two minutes faster than before. Mary Rowe finished in a time of 26:32.

Also finishing were Christina Garden, Betti Pavri, Teri Englandhard, Maria Toronto, Ami Choksi, Dee Morrison, Cynthia Wittman, and Carmen Shepard.

The Men

Sophomore Scott Kister ran his best collegiate time ever to finish in 20th place. His time of 29:49 on the 5.2 mile course was over 90 seconds better than his previous best on the course. Dan Flees finished in 24th place in 30:10. Chris Campus improved by a minute to 30:57, his best time ever on the course.

Freshman Mike Mahon finished in 32:21. Ed Naranjo ran in a time of 33:10. Jeff Willis, who joined the team in the middle of the season, moved into the top seven with a time of 33:31. John Raguin, back from an injury, cracked the top seven for his first time since Caltech, finishing in 33:48.

Also finishing were Andy Cresw, Ray Hsu, Paul Socodrow, Derek Syle, Kurt Storm, Chris Goddard, John Bowers, Eric Stort, Mike Ida, Deblyn Gilmore, Andre Ohanissian, Mark Land, Neil Brandt, Todd Kaplan, Mari Potterman, and Dave Kim.

Tomorrow is the SCIAC championship meet at Castaic Lake. The women's team can place fourth out of seven in the conference. Jerri Martin should finish all-conference, and will have another chance to race against Oxy. The men's team is currently in fifth place, but they can tie Redlands for fourth by beating them.
## WEEKLY SPORTS CALENDAR

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<td>Relland</td>
<td>Caltech</td>
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<td>Relland JV</td>
<td>Caltech</td>
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<td>Football</td>
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<td>Moorpark HS School</td>
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<tr>
<td>Sat</td>
<td>10-29</td>
<td>3:00p</td>
<td>All Day</td>
<td>Centros College Tournament</td>
<td>Citrus College</td>
</tr>
<tr>
<td>Mon</td>
<td>10-31</td>
<td>7:30p</td>
<td>Women's Volleyball</td>
<td>Loma Linda University</td>
<td>Caltech</td>
</tr>
<tr>
<td>Wed</td>
<td>11-1</td>
<td>7:00p</td>
<td>Water Polo</td>
<td>Pomona-Pitzer</td>
<td>Caltech</td>
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<tr>
<td>Fri</td>
<td>11-4</td>
<td>7:30p</td>
<td>Volleyball</td>
<td>Claremont-Mudd</td>
<td>Claremont-Mudd</td>
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<tr>
<td>Sat</td>
<td>11-5</td>
<td>8:00p</td>
<td>Water Polo</td>
<td>Whittier</td>
<td>Whittier</td>
</tr>
<tr>
<td>Sat</td>
<td>11-5</td>
<td>10:00a</td>
<td>Water Polo</td>
<td>Whittier</td>
<td>Whittier</td>
</tr>
<tr>
<td>Sat</td>
<td>11-5</td>
<td>11:00a</td>
<td>Women's Volleyball</td>
<td>Whittier Alumni</td>
<td>Cal State Fullerton</td>
</tr>
<tr>
<td>Sat</td>
<td>11-5</td>
<td>1:00p</td>
<td>Fencing</td>
<td>Cal Poly Pomona</td>
<td>Caltech</td>
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<tr>
<td>Sat</td>
<td>11-5</td>
<td>3:00p</td>
<td>Football</td>
<td>Claremont-Mudd</td>
<td>Claremont-Mudd</td>
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<tr>
<td>Sun</td>
<td>11-6</td>
<td>12:00a</td>
<td>Water Polo</td>
<td>SCIAC Final Round</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sun</td>
<td>11-6</td>
<td>11:00a</td>
<td>Ice Hockey</td>
<td>CSUSN #2</td>
<td>Pickwick Inn (Barbara)</td>
</tr>
</tbody>
</table>

You've always done things a little differently. For you there's Zig Zag premium cigarette tobacco. It's blended for American tastes, smooth and mild. Zig Zag's long cut makes it easy to roll. And you get twice as much tobacco for the same price as machine made brands. Sure, rolling your own cigarette is a little out of the ordinary, but what's so great about being ordinary? 

**Zig Zag Premium Cigarette Tobacco** 
**FOR PEOPLE WHO DON'T RUN WITH THE PACK.**

---

### Campaign Statement

From page 2

95, and DOING BETTER THEN YOU ARE. It's clear that we need to teach these Frosh some RESPECT for us God Like Seniors, WHERE'S MY BEER DAMMIT!

And the rest of them, the Sophomores and Juniors, they're just OLD FROSH. Here we are, donating our valuable senior time and effort to train them so that one day, they too can become seniors, and they refuse to believe everything we tell them. IMAGINE! If I'm elected Senior Class President, there will be two kinds of Frosh: Considerate, slave frosh, and DEAD FROSH.

It's time we had a senior class president who will keep the UN- DERclassmen in line (Hell, it's time we had a senior class president) Vote for Pierce Wetter for Senior Class President. By the way frosh: DITCH DAY IS TOMORROW! P.S. I'll also get a decent commencement speaker if last year's Junior class president hasn't done so already.

---

### Natural History

75 Years Old

On Sunday, November 6, 1988, the Natural History Museum of Los Angeles County officially celebrates its 75th anniversary by offering free admission for everyone, as well as educational programs and events in the west's largest natural history museum.

---

### STA Travel

OFFICES WORLDWIDE

<table>
<thead>
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<th>Location</th>
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<td>AMSTERDAM</td>
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</tr>
<tr>
<td>MADRID</td>
<td>1·800·787·7039</td>
</tr>
<tr>
<td>TOKYO</td>
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<tr>
<td>JAPAN</td>
<td>1·800·787·7039</td>
</tr>
</tbody>
</table>

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### Zig Zag Premium Tobacco

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### Natural History Museum

Los Angeles County celebrates its 75th anniversary with free admission for everyone, educational programs, and events.
This festival is one of the major annual events and is recognized by Cafe for its high-quality offerings. How's Ha!loween Pumpkin Carving, a course for adults on Tuesday, October 28, 1988, from 8:00 to 9:00 p.m. in Room 37 of the SAC, will be served. The organization is looking for people who are interested in getting some time in the Pacifica community as well as those who have some time to get into new things. If interested, please contact the office or head office at 517-740-6069.

Bags and Work study
A bag and paper carry the dog to the door of Room 37 of the SAC. We'll beat anyone's prizes or don't want your business. Sports and private parks, and interesting pastime for the children. Friday, nights and afternoons. Call 825-4849.

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EVENTS -

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EVENTS -

Business Director, at P.O. Box 2459, Covina, CA 91722, or phone her at (818) 449-6967. The resume book is sent to employers and is our top quality product. If you have any questions, contact the Career Development Center at 3 pm in 159 Sloan. Dr. Roman Kaluzny, Membership Director, at x4652. For additional information about the competition, call (213) 744-3534.

The AMAN folkloric company performs "Image-Your Voice as Power," and "How's Ha!loween Pumpkin Carving," a course for adults on Tuesday, October 28, 1988, from 8:00 to 9:00 p.m. in Room 37 of the SAC, will be served. The organization is looking for people who are interested in getting some time in the Pacifica community as well as those who have some time to get into new things. If interested, please contact the office or head office at 517-740-6069.

PHARMACIFIC TICKETS

Pharmaceutical tickets for Friday, November 4 and Friday, November 18. Mr. Cloud has some tickets for the day or for dinner on a subsequent visit.

Jack-O'Lantern 1a

The Pasadena Star-News is offering "Halloween Pumkin Carving," a course for adults on Friday, October 28, 1988, from 8:00 to 9:00 p.m. in Room 37 of the SAC. We'll beat anyone's prizes or don't want your business. Sports and private parks, and interesting pastime for the children. Friday, nights and afternoons. Call 825-4849.

Learn About Speaking

The International Toastmasters District One Fall Conference will be on Saturday, November 5 from 8:30 to 9:00 p.m. at the Ambassador Hotel, 3400 Wilshire Blvd. With the theme of "It's Show Time," the conference will feature educational seminars and workshops. Topics of the seminar include "Speak Out," "Overcomimg Anxiety," "Image-Your Voice as Power," and "How's Your Self." Additional features will be speech contests, live entertainment, and prize winners. Cost: $25. Price includes event, speakers, and prizes. For more information, call (213) 744-3534.

Coffeehouse Hours Correction

The Coffeehouse for the academic year 1988-1989 is 11:30 a.m. to 11:00 p.m. Saturdays and Sundays, and 2:00 p.m. to 10:00 p.m. Weekdays. The Coffeehouse will be open from 5:00 p.m. to 11:00 p.m. during the academic year 1988-1989. The Coffeehouse will be open from 5:00 p.m. to 11:00 p.m. during the academic year 1988-1989. The Coffeehouse will be open from 5:00 p.m. to 11:00 p.m. during the academic year 1988-1989.

The California Tech

104-58 SAC
Caldas, Pasadena, California 91125

Discount tickets are available for the Western American Society. With the discount, the tickets are $25.50. Live performances feature "Goya-Swados-Kravitz-Miller-Romancenovs and Wally Pyle Western/Country/Western Music Festival." These tickets for these events are for a very limited time. The tickets are available at the Los Angeles County Fairgrounds. The discount tickets are available at the Orange Walk entrance off the exit at 280, 420, and 200 from Orange Walk. To reserve your tickets, contact the Coffeehouse for reservations.

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Offer valid only Monday—Friday, expires June 30, 1989

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