Beall's BOD: Time

To Pass the Match

by Marie Beall

The meeting was spent at noon in Winnet (with most of the BOD in attendance. After a few whispered changes in the agenda, we got down to the serious business of scheduling elections, so that we can at least get it together by the next generation. After some discussion, it was decided that nominations would open on Feb. 4, at 10:00 a.m. Sign up on Flora's door or give the ASCIT Secretary a note if you're interested in running for office. Nominations will close on Friday, Feb. 14, at 5:00 p.m. The next week the candidates will campaign in the houses, with a meet-the-candidates reception (if anyone is still interested) in Winnet on Feb. 21 from 3-5. Elections will be held Feb. 25.

The only other business we discussed had to do with some proposed changes in the signa-tures needed to drop a class. See the article by Liz McLeod elsewhere in the paper for more information.

The next BOD meeting will be on Wednesday Jan. 22 at noon.

Dropping Rules

To Be Relaxed?

by Liz McLeod

On Monday, December 16, David Wales brought two proposed changes in the standards and Honors Committee to the Faculty Board. The changes fulfill the requirement for instructor's signature on drop cards. Second, to abolish the requirement for advisor's signature on drop cards.

This was cause for much debate. In the confusion, the Faculty Board packed off the proposals to committee for more meeting. The issue will be raised again this Monday.

Students who have any opinions about this proposal are urged to express their views. Faculty Board members are listed in the Institute catalog. All faculty members like to listen to students. Liz McLeod (me) and Jon Tutchel will be there. ASCIT elections are coming.

News Briefs

Pasadena Sex Ed Course Offered

A course in human sexuality is being offered by Pasadena Planned Parenthood and Pacific Oaks College of Pasadena. This course will deal with human reproduction, sexual behavior both normal and variant, sexual values, attitudes, life styles, current sex research, sex therapy, sadomasochism, all sex that can be explored within a humanistic framework.

The course is being taught by Mary Dreyer, R.N., M.A., and is available either for college credit at Pacific Oaks or may be audited (there is a tuition fee in either case). This class will be offered at: Pasadena Planned Parenthood, 1045 N. Lake Ave. from 4:30 to 7:00 p.m. Wednesday and Thursday evenings, and from 9:30 to 12 noon Thursdays. There are twelve sessions starting February 21 and 6th. Class site will be limited to twenty people, ten from Pacific Oaks and ten from the outside community.

For further information about the course, call Mary Dreyer, Pasadena Planned Parenthood, 708-6708 or 681-7202.

Dance the Torpedoes

Once again, this Saturday night, Ninth Annual Pasadena Sex Ed Dance will be held at Dabney Hall lounge will be filled with the sound of large-scale naval gunfire, as another in an Continuing on Page Seven

LINDA MCCLEOD is asked "What's a nice girl like you doing in a place like this?"

by Alan Silverstein

Make your mudpies now, because the ugly construction area in the middle of the campus, AKA Throop Site and Points East, is finally nearing completion and landscaping. One Dunvegan of the Architect's Office gave March 15 as the tentative date of final work, with the following estimated schedule. The fake rocks (more on that later) should be in place and colored brown by Jan. 20, whence the same company will bring two more weeks to finish plumbing and coating the pools with a lining. Next, during the first week of February, a different contractor will spend about two weeks working on sidewalks and fixtures on the site. At the same time our very own B&G starts three weeks to 1 month of landscaping and planting. The permanent pump arrives on or before March 17, but plans to run the waterworks before then on an interim basis with a temporary rig. A lot of people were surprised and amused when concrete rocks began appearing all over the site last week. The real reason for using fake rocks is the obvious one, that the cast ones are cheaper for the contractor to provide. Mr. Dunvegan explained that the contract for the rocks specifies what physical effect is to be achieved, but not whether the rocks should be genuine or artificial. Physical Plant was not one bit surprised, however; the contract was signed by them with the expectation that the contractor would be using artificial rocks because they are more economical for him, and meet the contracted standards. However, the long-term effects of weathering on the rocks remains to be seen.

It is humorous to note that those many tons of ersatz boulder will be permanently residing just a few hundred yards from the best geology department in the world.

Meadow Muffins?!!

Pools Flowing Soon

by Greg Simay

James Bond about to be sliced in two by Goldfinger's giant ray machine. "The Army's Secret Race to Perfect Death Ray!" "The True Adventures of Ruby Laser!" In his Y-sponsored slide-discussion last Monday noon, Fairchild starting February 5, Bridges contrasted these popular images of the laser with its actual role in our society.

On leave from Hughes Research Laboratories, Dr. Bridges is a pioneer in laser technology. He discovered laser oscillation in noble gas ions and invented the argon-ion laser. However, his discussion focused on the broad applications of the laser in weaponry, industry, fusion, measurement and isolation separation.

Zapping Balloons

Dr. Bridges explained the ray gun of popular lore is impractical if only because of the ray's r- squared losses and attenuation due to the atmosphere. (One professor did make a ray gun from a child's toy balloon. Popping toy balloons was the upper limit of its destructive powers.) However, the laser has proven useful as a weapons adjunct. Pulses of reflecting laser light are used as range finders for tanks, to increase the chance of a first hit. The smart bomb of the Vietnam war was a form of this, releasing ten megajoules when it explodes. The pellet then heats and reaches its critical phase, releasing ten megajoules when it explodes. One hundred explosions per second, for example, would make available 1000 megawatts of power.

Sewers to Gyros

The coherence of laser light makes it ideal for several measurement applications. Lasers are used to align sewer pipes and pipelines, to detect rate of change of frequency and, most commonly, to scan planetary surfaces. Dr. Bridges believed they could, particularly for planets with no atmosphere. Monochromatic ultraviolet laser light can be used in analyzing the structure of crystals.

Dr. Bridges explained how lasers might be used as gyroscopes. When laser resonators are arranged in closed paths they are sensitive to rotations. If three lasers are strategically aligned, they can be used to detect rate and direction of rotation. Before ring lasers can replace ordinary gyroscopes new technologies near zero rotation must be overcome.

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Continued on Page Seven

Lunch with a Scholar

Lasers Argued Beneficial to Man

Dr. Bridges pointed out that, although lasers were thought to be the key to optical communica-tions, it appears ordinary light from light-emitting diodes will in fact be used. It may be possible, however, that synchronous satellites will be later linked with radio frequency linkage from satellite to earth.

Unlike communications, lasers may well be the key to unlocking nuclear fusion. Previously, scientists faced the dilemma of a target pellet having to heat enormously without immediately losing its intensity. Now, the laser is able to create a plasma cloud around the pellet which directly absorbs its energy. A spherical shock wave then travels through the cloud, uniformly compressing the pellet. The pellet then heats and reaches its critical phase, releasing ten megajoules when it explodes. One hundred explosions per second, for example, would make available 1000 megawatts of power.

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Continued on Page Seven

A Nice Girl?

A Lot of People Were Surprised and Amused When Concrete Rocks Began Appearing All Over the Site Last Week. The Real Reason For Using Fake Rocks Is The Obvious One, That The Cast Ones Are Cheaper For The Contractor To Provide. Mr. Dunvegan Explained That The Contract For The Rocks Specifies What Physical Effect Is To Be Achieved, But Not Whether The Rocks Should Be Genuine Or Artificial. Physical Plant Was Not One Bit Surprised, However; The Contract Was Signed By Them With The Expectation That The Contractor Would Be Using Artificial Rocks Because They Are More Economical For Him, And Meet The Contracted Standards. However, The Long-Term Effects Of Weathering On The Rocks Remains To Be Seen.
Thoughts of a Studying Prince

FRANKLY SPEAKING

Friday, January 17, 1975

The ASCIFriday Night Movie
Sometimes A Great Notion
7:30 p.m. & 9:30 p.m.
in Baxter Lecture Hall

Admission: 50c–ASCIT members and their guests; $1.00—anyone else

20-11,292:041

Mt. Wilson Scope Updated

The great 150-foot solar telescope that has watched the sun for 63 years from Mt. Wilson Observatory has been modernized so that it can make its daily 16,000 observations more precisely and automatically.

Its white tower has long been a landmark visible atop Mt. Wilson from much of the San Gabriel Valley and sometimes even from Los Angeles (barring smog or other obstructions).

The telescope keeps track of solar activity as it is written in the ever-changing magnetic field patterns of the sun. The telescope has been making these daily magnetic observations since 1939. The results are sent to observatories and universities throughout the world.

A major phase of the rebuilding program included installation of a computer that operates the instruments and collects and analyzes the data, reports Dr. Robert Howard, who is the astronomer in charge of the telescope. It is a facility of the Hale Observatories, which are operated jointly with the Carnegie Institution of Washington.

Aptop the 150-foot tower is an observatory dome that protects two newly installed mirrors 15 and 19 inches in diameter that, when the dome is open, bring a beam of sunlight down the tower. A color-coded 12-inch lens focuses a 17-inch diameter solar image on a platform in the observing room at the base of the tower.

A small segment of the disk’s light is projected down to the bottom of an 80-foot pit. There a grating separates the light into its spectral lines. A less powerful spectroscope spectrums this spectrum up to a magnetograph in the observing room. All of these lines are recorded except a green metallic spectral line of iron, which is sensitive to magnetic fields (from being that way). The sun’s magnetic fields split this spectral line into two parts by what is known as the Zeeman effect. The greater the separation of the lines, the stronger the magnetic field. The Zeeman effect can be precisely measured in this unique telescope because it is enormously magnified as a result of the telescope’s focal length of 150 feet, plus 80 feet at the bottom of the pit.

The telescope can magnify the Zeeman effect even more if Dr. Howard want to concentrate on certain instrument that he uses. The sun’s atmosphere, usually the more active regions on the sun. Two new mirror atop the tower, completed in 1912, actually is two towers, one cleverly constructed to hold the mirrors in place while the mirrors are vibrating in high winds. The mirrors are mounted on these towers, and the lower one turns on the inside. The inner mirror is visible because its shadow is being reflected by the hollow grinders of the outer tower. The two towers don’t touch and sit on its own foundation.

The 15-inch mirror atop the tower rotates back and forth in such a way as to allow the magnetograph to scan the sun, covering about 14,000 miles in a sweep and moving gradually from north to south. The 19-inch mirror, on the other hand, is controlled manually and tracking that keeps the image fixed as the earth rotates.

The entire solar image can be scanned within 45 minutes. However, Dr. Howard prefers a longer period of observation because it accumulates less background noise. The observations are recorded mainly for scientific purposes.

During the rebuilding process, which took several months, the telescope was inoperative only a few hours.

Above the Smog

Mt. Wilson Scope Updated

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20-11,292:041

High Plains Drifter

"THAT NIGHT TO STAY THE BLEEDING!"
Prizes Up For Grabs

The mathematics department has announced two categories of prizes to be offered again this year to Caltech undergraduate students. The first is the E. T. Bell Scope.

Continued from Page Two

The big instrument was built originally by Dr. George Ellery Hale, founder of Mt. Wilson and Palomar observatories and one of the founders of modern Caltech. The magnetographs was developed by Dr. Horace Babcock, director of the Hale Observatories.

A great deal of what is known about the physics of the sun has been discovered at this telescope. Over the years fundamental studies here of sunspots and their magnetic fields, solar rotation, the large-scale magnetic fields of the sun, motions in the solar atmosphere, and other topics have made important progress toward an understanding of the atmosphere of the sun and the nature of solar activity.

Solar activity, besides providing a clue to similar behavior in other stars, has practical importance because it is linked to a number of phenomena on the earth, including some aspects of weather.

Salty Dog Gets Excited

by Chien D'oeu

"Help me with this. I can't get it up."

"They struggled for a minute and soon had the mast fully erect. Next came the sails which throbbed and pulsed in the quivering wind. Then they in- tered the boat into the water, climbed in, and began to sail."

"Ahah, ahaa, ahahh!" exclaimed Bucky as the race reached its climax. Then it was Undergraduate Mathematics Research Prize—a cash prize of $150 awarded for the best original mathematics paper written by a Caltech junior or senior.

Contestants for the Bell prize must be nominated by a faculty member familiar with their work. Students who wish to be consid­ ered for this prize should contact a member of the mathematics faculty prior to the end of the second term to inform him of the nature of the research. If this faculty member feels the entry is sufficiently worthy he will nom­ inate the contestant and act as his sponsor. Each entry is entitled to only one entry.

The second is the Morgan Ward Competition. Any Caltech freshman or sophomore may enter this con­ test. An entry may be individual or joint. Each student is entitled to at most three entries, of which at most two may be individual. An entry is to consist of a mathematical problem, solution and a significant contribution toward a solution. Any outside reference used should be indicated.

Entries from each contestant or group must be placed in an envelope and delivered to the Mathematics Office, 253 Sloan, during the fourth week of third term.

and another of Dame Agatha's more random creations, The Mou­ nege, was made into a play that opened in 1951, I believe, and is still running in London, almost a quarter of a century of continu­ ous run.) The cinematography and other such considerations are well done; the movie uses a flashback technique which is effective at refreshing our mem­ ories, though rather creaky. In these price days a reviewer hesitates to use such a phrase as 'well worth anyone's going to see' (the Westwood run intro­ duced to my experience the $3.50 single bill movie), but Murder on the Orient Express is well worth the price of admission to either mystery fans or movie­ fans.

Ever since her first mystery, The Mysterious Affair at Styles, came out in the Twenties, Dame Agatha has been one of the leading practitioners (probably the leader, since the retirement of Dorethy Sayers) of the so-called Christie. Dame Agatha has, in most cases, a formidable, though many prers...

It used to be true that movies came from books. Now the reverse is often true. Some writers take this as a chance to rewrite all but the basic plot; others give essentially a sight-and-sound transcription into words. The Questor Tapes, based on Gene Roddenberry's movie-for-TV of that name, falls into the latter group. The differences are so minimal that one suspects the additional scenes are not Ms Fontana's inventions but simply scenes that didn't make the final edited version. The added scenes do not alter either the theme or plot of the original; fortunately, neither do they distract. At most, they add a little humor.

Questor is an android, developed by a Big Five scientific combine after the designer of the internal parts, Emil Vasilovik, disappears. Their attempts to bring the android to "life" seem to fail; unbeknownst to them, Vasilovik's programming tape has instructed the android to play dead. Unfortunately, parts of the tape were destroyed by attempts of the Project Questor personnel to decode them.Questor escapes from the project, his program telling him to go to his creator, whose location he does not know. He forces Vasilovik's brilliant young engineer, Jerry Rob­inson, to assist him in the search.

The plot then follows its natural course: Questor and Robinson search for Vasilovik, while the Big Five search for them. The conclusion is genuinely satisfying, particularly if you wondered how Vasilovik could design all those wonderfully miniaturized components (pocket fusion reactors, for example).

While the movie merely mentions Passman and the site of Project Questor, Fontana places it firmly on the Caltech campus. These are two notable glitches: Caltech is stated as being below the Sierra Madres, and the following conversation, between a pair of Tchers walking by as Questor makes his escape:

"What'll we say if they find me in your room?"
"We can say we're studying."
"They won't believe that."
"Why do we have to say anything?"
"You always have to say something."

Sorry, Ms Fontana. But you're welcome to stop by and see what Tchers are really like, anytime.

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Next, if you're a qualified student of sophomore standing or higher, you can also get BankAmerica. Use it for tuition at state universities, for check cashing identification and everyday purchases. Conservative credit limits help you start building a good credit history.

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Student Representatives. Finally, the College Plan gives you individual help with your banking problems. Usually students or recent graduates themselves, our Reps are located at all our major college offices and are easy to talk with.

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BANK OF AMERICA
JV Basketball

The Tech About Town

To those of you who missed last Monday's production of "Beautiful Beckman" I can only extend my most sincere sympathies. However, if you try, you can get hold of a copy of the soundtrack, which is floating all over campus. Beckman's new season will get into full swing in the coming weeks, and you'll hear more as things come up. In the meantime, it might behoove you to drop in at the office (ticket) and see what there is. If you know of anything you'd like to see in Beckman next year, drop a line to the Faculty Committee on Programs, at 332-92.

Meanwhile, Southern California entertainment thrives. Nightly, one can get hold of a copy of the soundtrack, which is floating all over campus. Beckman's new season will get into full swing in the coming weeks, and you'll hear more as things come up. In the meantime, it might behoove you to drop in at the office (ticket) and see what there is. If you know of anything you'd like to see in Beckman next year, drop a line to the Faculty Committee on Programs, at 332-92.

The Rembrandt exhibit is still at the Huntington Library, although it won't be there much longer. Take advantage of the fine weather and reinvigorate your soul. McCafferty and DeLap (whom some may remember as the designer of a prominent local traffic sign) are featured in a fine exhibit now in the Baxter Art Gallery.

Sunday at 8:00 in Fritchman Auditorium (2936 W. 8th St., Los Angeles) Musica Pacifica presents the latest of its medieval and renaissance concerts. There has been a great deal of reaction to the current medieval vogue, and the Musica Pacifica seems to be one of the finest of the new groups specializing in "early" works. This concert will feature the madrigals of the seventeenth century, works by Monteverdi, Locke, Schuetz, Wilbe, Weekles, and Purcell. In the weeks to come the Musica Pacifica will present Purcell's complete Dido and Aeneas.

The Ice House, as always, is full of life. Following in the steps of other Ice House discoveries such as Pat Paulsen is this weekend's featured group, Chunky, Novi & Ernie. This insatiable group performs music & comedy somewhat reminiscent of such worthies as Tom Lehrer & Martin Mull. Not only will they amuse, but they may just clear your sinuses. On Monday the Ice House will host Lin Foulkes and the Rubber Band, an act guaranteed to lift you from your pre-midterm depression.

Of course, if you can't get away for entertainment, you can make your own. This week's safe, sane & legal home entertainment kit consists of four steps. First gather n friends. Second, gather 4n bottles of Guinness. Third, drink. Fourth, matriculate at Ambassador.

Until next week, may God & Herbert bless, and save your sinuses. Our next entertaining project will be to fly to New York to see Equus.

-Dick Harcourt

SUMMER JOBS For JUNIORS IN PHYSICS, CHEMISTRY AND ENGINEERING

The Department of Engineering and Applied Science of Yale University is offering a limited number of Special Grants to college juniors who would like to gain experience in advanced research this summer.

Available projects include work involving environmental studies, acoustics, biochemistry, biomechanics, surface chemistry and catalysis, solid state physics, magnetism, atomic physics, fluid dynamics, pattern recognition.

Stipends will be about $110 a week and will be awarded for an 11-week period from June 2 through August 15, 1975.

For further details and application forms please contact your department office, dean's office, or placement office, or write to:

Summer Research Program
Department of Engineering and Applied Science
Yale University
New Haven, Connecticut 06520
or call (203) 436-3671

Completed applications are due February 15, 1975.

Doug Weston presents
Paul Williams

in concert

Lori Lieberman
Friday, January 24, 1975, 8:30pm
MUSIC CENTER • PAVILION

For further ticket information, call (213) 820-7261

CHRISTIE
Continued from Page Three

and a death conspiracy. All in good fun, of course. But pick your own starting point; Agatha Christie mysteries have been more or less continuously on sale (or available in libraries) everywhere for as long as most people alive today can remember.

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BEAUTIFUL BECKMAN

Photos by G. Bone and R. Gruner
POWERFUL SEER PREDICTS FUTURE

The following interview was conducted shortly after Y acquired a large, black eight-ball. The other interviewers, N, E, and H, are friends of Y. It was thought that some insight into the rather unique personality of Ball could be gained, as well as some inside information on the future.

N: Do you like the Rose Bowl (Queen this year, ball)?
B: As I see it, yes.
Y: Are you a male ball?
B: It is decidedly so.
Y: You sound quite chauvinistic.
Are there any female 8-balls?
B: Not the ones I know.
Y: Outlook not so good for you?
B: It is decidedly so.
Y: Do you ever get lonely?
B: Better not tell you now.
Y: I understand how you might not want me to pry. Concerning world affairs, do you think the policy of detente with the Soviet Union is a good thing?
B: Concentrate and ask again.
Y: You have predicted a nuclear war by the year 2000. You have also indicated that China would not be involved and that it would probably start over the Middle East. (Previous interview—Ed.) Do you have any inside information to back this up?
B: Outlook not so good. Y: Could you clarify that?
B: Cannot predict now.
Y: Is youruteness due to your unwillingsness to reveal your sources?
B: Ask again later.
Y: This seems to be a touchy subject for you. Should we move on, Y?
Y: Should I, Ball?
B: It is decidedly so.
Y: Do you think that your percentage of successful predictions compares favorably with such methods as astrology?
B: It is decidedly so.
Y: But your methods are certainly faster. Do you attribute this to your psionic ability (failed a previous interview—Ed.)?
B: Yes.
Y: Ball, I find your answer confusing. Did you understand the question?
B: Don’t count on it.
Y: Ball, some of your critics have noted that a credibility gap has opened up between you and the public. Do you care to comment on that?
B: Don’t count on it.
Y: Well, let’s go on to campus matters. Will it rain for Interhouse next year?
B: As I see it yes.
Y: Then the best Interhouse projects will be those indoors?
B: It is decidedly so.
Y: Will next year’s fresh class be as large as this year’s?
B: Better not tell you now.
Y: Is it that bad?
B: I don’t answer yes.
Y: Will there be any good women?
B: It is uncertain.
H: In Y’s words, will they continue to be hopelessly unapproachable?
B: Signs point to yes.
Y, N, E: Oh, hell.
B: Well, thank you for a fine interview, Ball. Now just for your fans, can you give us your favorite answer?
Y: Yes? (Y waits.)
Y: What is it?
B: Reely lazy, try again.

NOW OPEN AT OUR NEW LOCATION
964 E. Colorado (at Mentor)
THE Original
VENUS adult theater
DAILY 11 a.m. to 1 a.m., SUNDAY noon to midnight
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For your comfort, plenty of free parking

Junior Seer Predicts Future

Continued from Page One

endless series of naval miniatures engenders a restlessness that vast hardwood floor. At 7:30 the meeting will supposedly start, at 7:35 the people attending the meeting will start showing up. At 7:45 Cowan will attempt to wash out of admiring the losing side. All this and more! You too can join the fun! How? Simply by showing up at 7:30 or so and learning to play. Playing is easy. Winning is hard, but that’s life. Anyway, at least come and see what it’s all about. Tell them Farragut sent you.

Lasers

Continued from Page One

hypersensitive structures, a fine-tuned laser would be able to excite one isotope while leaving the others alone. The affected isotope can then be ionized and separated electromagnetically. Thus, pointed out Dr. Bridges, separating tritium isotopes would be a particularly useful application of a fine-tuned laser.

While explaining all the uses and benefits of the laser, Dr. Bridges also communicated its enormous potential in the future. But it will still be awhile before the scantly clad Roby Laser will deal death with her ray gun.

News Briefs

Continued from Page One

Guitar Corner

Guitars-Amps-Drums
P.A. Systems
Fender — Gibson — Acoustic
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447-0060
1023 So. Baldwin
Arcadia

THE CALIFORNIA TECH
Page Seven

Friday, January 17, 1975
Hockey Team Stomps Oxy

Caltech Invitational Teams Start Grappling Tomorrow

A record number 19 teams will compete in the 6th annual Caltech Invitational Wrestling Tournament Saturday (Jan. 18), with defending champion Southern California College and Costa Mesa Area teams among four top contenders to win the 1975 title.

Death Dog Continued from Page Three

"If they'd only talk to Paul Gazz, 128 Lloyd, or come to one of our meetings at 8:00 p.m. Wednesday." "Oh well, I guess they're all Commie Subversives!"

"Or from UCC!"

"Yeah!"

Seasoned Fencers Win

by Lt. Brigade

Last Saturday, the Caltech Fencing Team traveled to far-away Cal State Fullerton. There, the seven of us were met by six Cal State fencers, not all of whom were on the first team. I proudly report the results of the bouts of the four Caltech fencers with at least a year's experience between them: we won 13 of the 24 bouts we fenced, thereby winning that competition. The other three of us had no experience whatsoever and had only been fencing since October.

The three of us between us were more than our opponents in experience, since we had about 4 of their 18 bouts.

So far, all of this year's outdoor fencing has been in foil, a weapon which, in my opinion, has rules which confine the players of a bout, but teach good swordsmanship (and swordsmanship!). The match Thursday night was no exception, but since I am writing this on Wednesday, I have no idea as to how well we will have done (or now, did) against PCC. [Isn't warped time fun?]

As usual, if you have an interest in fencing, please do not hesitate to come to our practices on Tuesday and Thursday evenings in the gym from 8 to 10 p.m. If you have no experience, the beginning class is still open. All of our current fencers reached the team by this route, and in my opinion, there is no better instruction available in this area.