Solar System Newly Found

by Hisako Sonoda

Two astronomers, Richard J. Terrile of JPL and Bradford A. Smith of the University of Arizona, have photographed evidence in- cluding particles from a large asteroid field around Beta Pictoris, a star 50 light years from Earth.

The photograph shows a circu- mstellar disk, which is a vast swarm of solid particles, surround­ ing the sun. The disk is the first of its kind to be seen clearly in astronomical photographs.

The Harrisons propose capping the flood control system to its original state as a continuous artificial satellite (Astronomical Satellite) science team stated that this star showed abnormally small and carbonaceous (organic) compounds. The Earth and other planets are believed to have been formed from these same materials.

The circumstellar disk suggests that it is very young, perhaps only a few million years old. (To compare, our Solar System is 4.5 billion years old.) An older disk would be less flat since much of the material in it would be ejected into interstellar space.

Beta Pictoris is twice as massive and brighter than our Sun, thus it is luminous. It appears as a faint star in a cluster, in a constellation in the southern skies. From Southern California, Beta Pictoris remains below the horizon—it can only be seen from the extreme southern parts of the U.S.

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Election Thoughts

by Lily Wu

The headline in last week’s California Tech announced, ASCIT elections are coming soon. Elections are exciting because they are high potential events. The potential lies with the field of nominees running, the nature of the issues raised, and of course, the voter’s eventual choice. The right outcomes in each of those three areas can lead to great change, wise leadership and exciting new projects. Likewise, all three outcomes may result in mediocrity (as might have been the case with the 1984 presidential elections).

The effect of an important office could be lost when any of the following aspects enter into either the election or nominees: apathy, naivety, lack of choice, lack of experience, lack of integrity, lack of enthusiasm, or lack of substance.

There are many things to look out for and to consider in an election. Potential for greatness is always accompanied by an equal and opposite potential for failure. As with all democratic events, the only trustworthy watchdog against possible failure and disinterest is the voters themselves. Whatever the voter’s eventual choice, it is crucial that it be a choice made after serious consideration. No final decision can ever be too bad as long as reasoning and evaluation went into every vote cast.

The Caltech ASCIT election has two added features: the NO vote and write-in votes. Both can be used very effectively and should not be overlooked. The NO vote is a statement against either too few nominees or nominees of poor quality. In national elections, when 50% of the population do not vote, it is hard to tell if they did not vote as a statement against the candidate choices or because they did not care. The NO vote says “we care enough to vote, but dislike the choices.”

The NO vote, though, is only a statement and not a tool. Its compliment is the write-in vote. A NO vote, when ideally used, tells the students that another choice is warranted and will have a chance in the run-off. That is when additional candidates should declare themselves as alternatives and run as write-ins. The potential of both these features should be recognized and utilized more often than it has been in the past.

Another good reason not to have the elections two weeks staggered is that it means a possible 5 elections in the first 6 weeks of this term (including one run-off for each election and the by-laws vote). That is too many times to have to vote in such a short period. If the intent was BOD in-rehearsal, resulting in an uproar that was reflected in the Tech’s “Letters” section for weeks afterwards. Seeing that ASCIT is run by and for Caltech students and other members of the Caltech community, one would think that the student newspaper would show an interest in objective, critical coverage of its productions, instead of allowing the weeks of prepara­tion (and expense) to be dismissed in the poorly reasoned, unprofessional fashion of the reviewers of the recent past. To paraphrase Mr. McKendree, sloppy criticism is no less sloppy if done by amateurs.

Alice Cronin-Golomb

A factual correction here—the ASCIT production immediately preceding the One-Acts Marathon was Thurber’s Three’s Thirteen Clocks, which received both substantial coverage and a favorable review (issue of October 26, 1984). Editation, when not just the new BOD as usual and simply inaugurate them a month late? Then the entire board could benefit from a transition period of a month rather than two weeks.

Secondly, why was the treasurer chosen as the second office for early elections? It seemed a more natural choice would be the secretary. A secretary can benefit from a short training period and is key to the BOD’s organization. The secretary is an important enough position that the office holder often becomes president later. Those facts do not hold as well for the treasurer, if what was done.

Therefore, while the two week staggered election does not adequately allow for a transition, it does allow losing candidates in the first round to run for offices in the second round. This may not have been intended, continued on page 6

CALTECH WIND ENSEMBLE Concert

Tuesday, January 29

Music by P.D.Q. Bach, J.S. Bach, Sousa and Percy Grainger

Refreshment following concert

Ramo Auditorium
8:15 PM

The Caltech Y Fly-by

Friday ... January 25
Noon Concert, “Band Called Sam” at noon on the Quad.

Neil Simon’s “Biloxi Blues” if you signed up (and won) pick up your tickets today and go tonight.

Saturday ... January 26
Sailing leaves at 7:30 am, don’t forget. No black soled shoes allowed.

Sunday ... January 27
LA Arts Festival, the Y will be providing transportation, the exhibition is free. All you need to do is show up at Winnett at noon.

Wednesday ... January 30
 Noon Update. “Ethical issues for Consultants in the Work World,” Went newspaper would say an Winnett Clubroom 1, at noon, bring a lunch and a friend.

Friday ... February 3
Noon concert, to be announced.

GSC Studies
Grad Living

by George Carman

In response to expressions of concern regarding student care, housing and stipends, the Graduate Student Council has set up a special committee to evaluate how each of these influences the quality of graduate student life.

The committee will then pursue these matters with the appropriate Institute administrators and Faculty committees. It is hoped that these meetings take place very soon. In the meantime, this conference spring between the graduate students, the Faculty, and the Institute administrators which is already occurring is valuable and will be an important step to the future of the Institute.

The report on the status of health care appears in this issue of the California Tech. The opinions expressed here are strictly those of the authors and do not necessarily reflect those of the editors.

Letters and announcements are welcome. Include with any contribu­tions should be the author’s name and address and the intended date of publication. The editors reserve the right to abridge letters, so please keep them concise.

Opinions expressed in this issue are not necessarily those of the editors. The opinions expressed herein do not necessarily reflect those of the editors.

Editor in Chief ........ Chris Metz

Entertainment Editor .... Matt Rowe

Features Editor .... Lily Wu

Sports Editor .... Santosh Krishnan

Announcements Editor John Beahan

Photo Editor ........ Linda Boncellera

Review Editors ........ Tom McKendree (art), Shih-jui, Li (literature), Robert DePietro (music), John Beahan, Julian West, Irene Arguimbau

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Student Government ........ Bob Bolender (TACIT), Jim Bell (Blacker), Joel Sobey (Delta Sigma Theta), Susan Der (Sorority of the Century), Chad Mihes (Radio Caltech), Brad Ed Zandell (Fleming)

Business Manager ....... John Beahan, Nick Smith, Lily Wu.

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**Student Health Explained**

by George Carman

Most graduate students know that the Caltech Student Health Program consists of two components: (1) services provided by the Young Health Center, and (2) benefits payable under the Student Health Insurance Plan, underwritten by Mutual of Omaha. Unfortunately, many students do not find out what is and is not covered by these benefits until they are faced with unexpected and perhaps unaffordable medical expenses. In the past three years of serving as the Graduate Student Council representative on the Student Health Committee, I have found various instances where our Health Program is lacking, and have accordingly suggested improvements to the Committee. In that time, I have expressed concern over (1) matters of routine operation of the Health Center and Counselling Services, (2) the adequacy of the existing benefits payable under the Student Health Insurance Plan, (3) the need for dental benefits for graduate students, and (4) the need for maternity benefits for graduate students and their spouses. While the Health Committee chaired by Bruce Cain has succeeded in obtaining maternity and elective abortion coverage for women students, it has not been effective in dealing with the remaining issues.

One difficulty faced by the Student Health Committee is that its members do not have the expertise to evaluate the daily operation with the Health Center and the Counselling Services. In appreciation of this problem, the Health Committee requested in 1981 that a blue ribbon panel of health professionals be invited to evaluate our Health Program. This proposal reached President Goldberger’s desk, where it was, according to one source, simply forgotten.

Because of limited resources (only three active Faculty members) and an abundance of concerns, the Student Health Committee has not attempted to resurrect this issue. However, Vice-President for Student Affairs J. J. Morgan has assured me that the services of a health consultant would be made available to the Health Committee if requested. Hopefully, the Health Committee will eventually take advantage of this offer. Also in this regard, I am interested in learning of any problems students may have had in obtaining satisfactory health care at the Health Center or from Counselling Services.

Our existing health insurance benefits, as outlined in the pamphlet available at the Young Health Center, have not been updated in ten years despite substantial changes in the cost and nature of health care in that time. For instance, the maximum benefit of $20,000 and one year’s coverage from the date of accident or illness could easily be exceeded. The major medical benefit, which pays 80% of hospital costs up to the maximum benefit, has left the student paying 20% of medical costs which for a given accident or illness have grown at a faster rate.

**PAS GRAPHICS**

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**Ay Prof Mould Receives Prize**

by Charles Barrett

At a meeting of the American Astronomical Society in Tucson, Arizona last week, Caltech Associate Professor of Astronomy Jeremy Mould was co-recipient of the Newton Lacey Pierce prize. Sharing the award with Mould is Dr. Marc Aaronson of the Seward Observatory in Tucson.

Begun in 1974, the Pierce prize is awarded for outstanding work by an astronomer or astronomers connected with a North American institute of higher education; additionally, all recipients are to be younger than 36 years of age.

Mould and Aaronson were recognized for their joint work on two topics. Primarily, they determined that the local supercluster, with a mass in the range of $10^{14}$ to $10^{15}$ solar masses, exhibits motion relative to a frame of reference external to our galaxy.

The second work cited by the Pierce prize is a new estimate of the Hubble Constant, the ratio of the speed at which a distant galaxy is receding from our solar system to its distance from the solar system. The Hubble Constant is central to the determination of the age of the universe. Mould and Aaronson place its value in the range of 90 to 95 kilometers per second per megaparsec.

Both Mould and Aaronson, in addition to receiving the Pierce prize, presented papers at last week’s AAS meeting. Mould spoke on “The Formation and Evolution of Carbon Stars,” and Aaronson discussed “The Distance Scale: Present Status and Future Prospects.”

Their work is based on observations in the infrared spectrum using ground-based telescopes in the western U.S. and in Chile at Cerro Tololo and Las Campanas.
Election Statements

President
Supriya Ghosh
My name is Supriya Ghosh and I am running for the ASCIT President. If elected, I plan to improve student life here at Caltech. Over the course of the three years that I have been here, I have noticed an enormous amount of apathy in the student body. As ASCIT President I will actively campaign for more student involvement in social activities and student government. I feel that the purpose of ASCIT is to provide a voice for the student body and to protect the interests of the students. I would appreciate your support on Monday. Thank you.

Joy Watanabe
As a current member of the ASCIT BOD I am familiar with its ongoing projects. I am running for president so that I can become more involved with these projects. I feel that the purpose of ASCIT is to work towards improving student life, both socially and academically. Towards this end, I would like to concentrate on projects dealing with students’ problems and concerns. I would appreciate your support on Monday. Thank you.

Treasurer
David Bruning
It would greatly please me to have the opportunity to serve you in this important position. I feel that it is very important that the treasurer knows how to keep accurate records. In this area I have had experience, having served as treasurer in a very profitable small company for two years. This gave me the chance to keep all the financial records over that period. As treasurer, I feel that I could keep the necessary records and also perform the normal duties of the treasurer without too much strain on my schedule. I would ask each of you to seriously consider my candidacy for this position.

Evelyn Howe
I decided to run for ASCIT Treasurer because I found my term as Dabney House Treasurer interesting, and I thought that the switch to ASCIT government might provide more of a challenge. I am responsible, and, as Dabney House isn’t broke (yet), I seem to be a reasonable treasurer. Also, I like money.

Please give me your vote on Tuesday.

Joe Williams
My name is Joe Williams, and I am running for ASCIT Treasurer. I am familiar with the duties of this office and I am aware of its importance. I have had several years of accounting experience, keeping records for a small corporation. I am certain that I have the competence and dedication to keep ASCIT running smoothly.

Your votes will be greatly appreciated.

The Inside World

Ruddock: Nobody wants to worry anymore what Graven is protecting the halls, almost nobody.

Elections are only a week away. I’m sure those in office now will be happy to be relieved of all the work they have kept putting off.

I feel sorry for the new librarian.

There are a lot of presidential candidates this year. It is good to see so much Ruddock House dedication. I love the variety, but it makes the vote decision even more difficult. Good luck to you all.

What’s this I hear about a party this weekend? And who could forget the man of the hour, day, and (we hope) year? Ashok Krishnamoorthy, our candidate for the ASCIT presidency—a man who has demonstrated sleep in the pool hall, charm in the rumpus room, and/or can flatten steel buildings with a wave of his hand (pick three). Macho Mortho, we of the house of Lloyd salute thee!!

Gender—Revised ASCIT Text

from page 1

The Board, the Chairman shall be empowered, upon resolution of the Board, to convey such information without disclosing the names or identities of any persons involved.

ARTICLE X

Section 2. On the question of whether or not the officer shall be recalled, an affirmative vote from 2/3 of the voters shall suffice to remove the officer from that office; otherwise that officer shall continue.

ARTICLE XIV

Section 3. The Business Manager of each publication is responsible for all funds belonging to that publication. The Business Manager may open accounts only with banks previously approved by the Board of Directors, will account for all receipts and expenditures in a manner recommended by the Treasurer and will submit term and annual reports to the Board of Directors on the financial condition of that publication. The Business Manager is the only one empowered to transact business in the name of a publication. All checks must be signed by both the Editor and the Business Manager.

Section 5.

(a) The By “5” The Editor will receive a salary of three hundred dollars ($300) with a possible bonus of one hundred dollars ($100). The Editor may appoint a maximum of four Assistant Editors, who will each receive a salary of one hundred dollars ($100).

(b) The Teaching Quality Feedback Report. The Editor will receive a salary of one hundred fifty dollars ($150) with a possible bonus of one hundred dollars ($100). The Editor may appoint a maximum of two Assistant Editors, who will each receive a salary of fifty dollars ($50).

Section 10. The Publications Darkroom Chairman is responsible for maintaining the publications darkroom, authorizing persons to use the facilities, and filing negatives for the use of the publications. The Chairman will receive a salary of one hundred fifty dollars ($150) for the year’s work and will take office at the beginning of the academic year.

RESOLUTION VI

Section 1. As the discretion of the ASCIT President, a staff shall be approved by the Board of Directors upon the recommendation of the President. The purpose of this staff will be to assist the ASCIT President in presidential duties and to offer a special opportunity for creative work.

RESOLUTION VII

Section 2. FINANCES. The Coffeehouse Manager shall be responsible for all operating funds belonging to the Coffeehouse and shall deposit all operational funds received in said bank as approved by the Board of Directors. The Coffeehouse Manager shall account for all expenditures and receipts in a manner approved by the Treasurer of the corporation and shall submit term and annual reports to the Board of Directors on the financial condition of the Coffeehouse. Upon completion of the fiscal year, all Coffeehouse profits in excess of normal operating costs, with a matching amount from the Board of Directors, will be placed in a special Coffeehouse Reserve Account to be administered jointly by the Board and the Coffeehouse Manager.
The Club is Hot
by Nick Smith
The Cotton Club
Orion Pictures

There are a lot of successful musical comedies, but not many good musical dramas. The problem is that, the more content a movie has, the more the average viewer considers the musical numbers to be a distraction. Most of the really good musicals have had plots that could be summarized in a short paragraph. That doesn’t mean that a musical can’t have a good plot, only that it probably won’t have a very complex one.

The Cotton Club is an attempt at being the exception to a lot of recent trends. It tries to be a heavily serious gangster movie interspersed with a not-a-comedy-drama mishmash like late unlamented Orion Pictures musical comedies, but not many rules. It is that, the more content a movie has, the more the average viewer wants either more of the gangster genre or a distraction. Most of the really good musical dramas consider the musical numbers to be a distraction. Most of the really good musicals have had plots that could be summarized in a short paragraph. That doesn’t mean that a musical can’t have a good plot, only that it probably won’t have a very complex one.

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Swann in Love

by John Fourkas
Swann in Love
Orion Pictures

For many people, the name Proust conjures up horrific visions of tedious plots and endless sentences. Some may even be reminded of a certain “Summarize Proust” contest, or maybe something about “Mr. Reagan.” But how many of us have actually read Proust? Not I.

Thus, when I decided to go see Swann in Love (adapted from the first section of Proust’s Swann’s Way), I wondered whether my ignorance of Proust would be an advantage or a disadvantage. In retrospect, I think that this lack of knowledge was a slight benefit, as I was able to meet Proust’s expectations (other than those created by reading other reviews) while watching the film.

Swann in Love surprised me from the first moment, when I realized that the story was in French with subtitles (and good subtitles at that)—something I did not expect from a movie starring Jeremy Irons (Brideshead Revisited, The French Lieutenant’s Woman). Capping off this surprise was the fact that Irons plays an incredibly convincing Frenchman. Apparently the director, Volker Schlondorff (The Tin Drum), was not able to find a French actor he was willing to cast. He finally asked Irons (who had never read Proust) to look over the script. Irons fell in love with the script, and spent four months learning to speak French. Irons felt that it was advantageous to have an Englishman play the role of Swann. Just as Swann is an Englishman, a Jew, and an alien in Parisian society, Irons felt alienation in Paris because he was English.

The element which makes Swann in Love succeed, however, is not Irons’ portrayal of an “English” Frenchman (or a “French” Englishman), but rather his brilliant understanding of obsession and betrayal—for obsession and betrayal are what Swann in Love is all about. Swann is a Parisian gentleman who has fallen in love with a high-class prostitute, Odette de Crécy. Swann’s obsession for Odette has jeopardized his social position; in fact, a good friend in­forms Swann that he will not receive Odette into his home if Swann marries her. Irons treats us to a magnificent view of Swann trying vainly to break the bonds of his obsession, even though this obsession has become his entire being.

Unfortunately, not all of the characters in the movie are as convinc­ing as Swann. Ornella Muti plays a very enigmatic Odette; thus, the emotional side of Odette, is done beautifully. However, one is never quite sure what it is about Odette that has caused Swann’s fixa­tion, rendering his obsession a bit unbelievable. Whether this is the fault of Muti and her acting or of the script I cannot say, although I would hazard to guess that it is a combination of both.

Another character who does not come across very well is Swann’s friend and confidant, the Baron de Charlus (Alain Delon). While Charlus is continually unmistakably by the camera work, he does not appear to be incredibly important to the story. One is left wondering why one is treated to five minutes of footage of Charlus’ attempts to pick up any Jewish intellectual. Is this supposed to illustrate some type of hypocrisy on the part of Swann (who becomes very upset when he finds out that Odette is bisexual?)? Perhaps, but if so the connection is far too tenuous. Furthermore, the young man rejects Charlus’ advances unconvincedly.

This is one area where the movie fails again and again (and continued on page 6

Professional Opportunities
At Sperry
In The Twin Cities

By Nick Smith
Sperry Corporation

Minneapolis/St. Paul. It’s tall trees, lots of lakes, affordable housing and a theater of seasons. Here you’ll experience a comfortable lifestyle that combines culture and commerce, nature and nightlife, recreation and relaxation.

Professionals considering relocation to this area may be surprised that ten Fortune 500 companies and over 400 computer electronics firms have operations here. Salaries are highly competitive, our school and university system is top-ranked nationally and our booming downtown centers are bursting with energy and striking new architecture. Our highways, city streets and neighborhoods are clean and well maintained. And Minnesota’s low crime rate is a source of pride.

Sperry Corporation has major facilities in the Twin Cities and our Defense Products Group employs over 5500 who are involved in the development, manufacture and marketing of ruggedized digital computers, systems, components, and associated software products for use aboard aircraft, ships, submarines, and space vehicles as well as in land-based installations.

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Recruiting on campus: Monday, Feb. 4th.

Sperry Corporation

FRIDAY, JANUARY 25, 1985

Page 5

Positively Obsessed
With Swann in Love

by John Fourkas
Swann in Love
Orion Pictures

For many people, the name Proust conjures up horrific visions of tedious plots and endless sentences. Some may even be reminded of a certain “Summarize Proust” contest, or maybe something about “Mr. Reagan.” But how many of us have actually read Proust? Not I.

Thus, when I decided to go see Swann in Love (adapted from the first section of Proust’s Swann’s Way), I wondered whether my ignorance of Proust would be an advantage or a disadvantage. In retrospect, I think that this lack of knowledge was a slight benefit, as I was able to meet Proust’s expectations (other than those created by reading other reviews) while watching the film.

Swann in Love surprised me from the first moment, when I realized that the story was in French with subtitles (and good subtitles at that)—something I did not expect from a movie starring Jeremy Irons (Brideshead Revisited, The French Lieutenant’s Woman). Capping off this surprise was the fact that Irons plays an incredibly convincing Frenchman. Apparently the director, Volker Schlondorff (The Tin Drum), was not able to find a French actor he was willing to cast. He finally asked Irons (who had never read Proust) to look over the script. Irons fell in love with the script, and spent four months learning to speak French. Irons felt that it was advantageous to have an Englishman play the role of Swann. Just as Swann is an Englishman, a Jew, and an alien in Parisian society, Irons felt alienation in Paris because he was English.

The element which makes Swann in Love succeed, however, is not Irons’ portrayal of an “English” Frenchman (or a “French” Englishman), but rather his brilliant understanding of obsession and betrayal—for obsession and betrayal are what Swann in Love is all about. Swann is a Parisian gentleman who has fallen in love with a high-class prostitute, Odette de Crécy. Swann’s obsession for Odette has jeopardized his social position; in fact, a good friend in­forms Swann that he will not receive Odette into his home if Swann marries her. Irons treats us to a magnificent view of Swann trying vainly to break the bonds of his obsession, even though this obsession has become his entire being.

Unfortunately, not all of the characters in the movie are as convinc­ing as Swann. Ornella Muti plays a very enigmatic Odette; thus, the emotional side of Odette, is done beautifully. However, one is never quite sure what it is about Odette that has caused Swann’s fixa­tion, rendering his obsession a bit unbelievable. Whether this is the fault of Muti and her acting or of the script I cannot say, although I would hazard to guess that it is a combination of both.

Another character who does not come across very well is Swann’s friend and confidant, the Baron de Charlus (Alain Delon). While Charlus is continually unmistakably by the camera work, he does not appear to be incredibly important to the story. One is left wondering why one is treated to five minutes of footage of Charlus’ attempts to pick up any Jewish intellectual. Is this supposed to illustrate some type of hypocrisy on the part of Swann (who becomes very upset when he finds out that Odette is bisexual?)? Perhaps, but if so the connection is far too tenuous. Furthermore, the young man rejects Charlus’ advances unconvincedly.

This is one area where the movie fails again and again (and continued on page 6
More Stats on Health Program from page 3

than the typical graduate student in-
come. The outlier benefit is limited to $150 per illness, a limit which may readily be exceeded on the second or third referral to a health specialist, who might charge$100 to $150 per visit in fees alone. In response to my concerns on detail, the Health Committee recommended that the Health Service provide a report on dental care among graduate students. This second survey, to which 634 (73%) of graduate students responded, revealed that, of all those graduate students responding:

- 85% had no dental insurance
- 60% believed they received less than adequate dental care
- 72% spent less than $100 per year for dental care, and
- 84% considered the sole or major factor in determining the level of dental care they received.

In addition, 16% of those responding wrote comments as to the desirability of a comprehensive dental health plan. Although the Health Committee unanimously en-
dorsed motions calling for the ad-
mintistration to consider dental in-
surance, it is unclear whether the absence of any progress is due to an antipressive administration or the failure of the Health Commit-
tee to properly pursue the matter. I only recently learned that the GSC dental health survey had not been forwarded to J. J. Morgan or any other member of the ad-
ministration by either Lyman Bon-
ner or Bruce Cain, although they had each read the report.

It is my hope that recent con-
cern expressed by Dean of Graduate Studies Arden Albee and Vice-President for Student Affairs J. J. Morgan about matters affect-
ging graduate student life will evolve into progressive measures to reverse the continuous erosion of our ability to obtain health care which has been the reward for our efforts and dedication. This is clearly in the present interests of the Institute if Caltech is to attract and maintain the best students given competition from nonacademic sectors. It is also in our present and future interests if we are to survive graduate school with our teeth and, for those of us who plan to remain in academia, to be able to offer our graduate students what they deserve.

Cotton Club Well Done

from page 5

Cotton in Love is still well worth seeing. Irons is magnificent, and the cinematography is excellent. Also, as I mentioned before, the subtitles are done well. The only character who loses anything significant in the transla-
tion is the Baron de Charlus. I give Swann in Love three-and-a-half stars. Now, if you will excuse me, I think I will go look for a copy of Swann’s Way.

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Electronics & Defense Sector

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Electronics & Defense Sector
Weekly Sports Calendar

<table>
<thead>
<tr>
<th>DAY</th>
<th>DATE</th>
<th>TIME</th>
<th>SPORT</th>
<th>OPPONENT</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sat.</td>
<td>1-26</td>
<td>4:00 pm</td>
<td>Swimming (W)</td>
<td>Redlands</td>
<td>Redlands M/W</td>
</tr>
<tr>
<td>Sat.</td>
<td>1-26</td>
<td>1:00 pm</td>
<td>Men’s Tennis</td>
<td>Faculty</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat.</td>
<td>1-26</td>
<td>7:30 pm</td>
<td>Basketball (Varsity)</td>
<td>Pac. Bap. Bib. Col.</td>
<td>Caltech</td>
</tr>
<tr>
<td>Tue.</td>
<td>1-29</td>
<td>2:30 pm</td>
<td>Men’s Tennis</td>
<td>Christ College</td>
<td>Caltech</td>
</tr>
<tr>
<td>Tue.</td>
<td>1-29</td>
<td>8:00 pm</td>
<td>Hockey Club</td>
<td>Pierce+2</td>
<td>Conejo Rink</td>
</tr>
<tr>
<td>Wed.</td>
<td>1-30</td>
<td>4:00 pm</td>
<td>Wrestling</td>
<td>La Verne</td>
<td>Caltech</td>
</tr>
<tr>
<td>Wed.</td>
<td>1-30</td>
<td>6:00 pm</td>
<td>Basketball (JV)</td>
<td>Pomona-Pitzer</td>
<td>Caltech</td>
</tr>
<tr>
<td>Wed.</td>
<td>1-30</td>
<td>8:00 pm</td>
<td>Basketball (Varsity)</td>
<td>Pomona-Pitzer</td>
<td>Caltech</td>
</tr>
</tbody>
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Flying Flem Faye Flam Friday last, off the 3 meter board.

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PA 15 Meeting
There will be a meeting of the PA 15 class, which is the student newspaper, at 12:15 pm, Friday, in 127 Baxter.

C.W.E. vs. P.D.Q.
The Caltech Wind Ensemble will present a free concert on Tuesday, January 29, at 8:15 pm in Gage Auditorium. Featured will be music by J.S. Bach, P.D.Q. Bach, and John Philip Sousa. Graduate student Mark McDonald will play a solo for tuba and band. The concert is sponsored by the office of student affairs.

Career Discussions
The Alumni Association and Gnome (know-me) Club will sponsor this year’s first career counseling session on Friday, January 31 at 7:00 p.m. in the Alumni House. This theme will be “Careers in Mechanical Engineering.” Beer, soft drinks and munchies will be served. Students will have the opportunity to ask questions and enter into informal discussion with a panel of three Caltech Alumni: Ron Helin (’53), Director of Engineering at Boeing; Jim Hendrickson (’53), Supervisor of Structures and Dynamics Development Group at JPL; and Ed Stofel (’53), Senior Scientist at Spacecraft Power Sources at Hughes Aircraft Company.

SCPC Meeting
There will be a meeting of the Student Computing Policies Committee (SCPC) on Tuesday, January 29 at 7:00 pm in the computer room upstairs in Booth. All interested students in using the student computing facilities should attend. Topics include UNIX on D4G.

Free the Orchestra!
The Pasadena Community Orchestra, under the direction of Wayne Reinecke, will present a FREE concert January 25th. The program, produced with special guests The Pasadena Community Orchestra, will include Haydn’s Symphony No. 101 (Drumroll), the Overture to Rigoletto by Giuseppe Verdi and Te Deum. The concert will begin at 8:15 pm and takes place at the First United Methodist Church, 500 East Colorado Boulevard.

Procrastination
In order to make changes in your patterns of procrastination, it is often most helpful to understand the reasons behind them. On Tuesday, January 29th, beginning at 4:30 pm in the Caltech Y Lounge, the Career Development Center will offer a two-hour workshop on “Understanding Procrastination’s Causes and Contributing Factors.”

There is a limit of no more than 30 participants, so DON’T DELAY! Begin to break that habit now and call the Career Development Center to sign up.

Chamber Concert
There will be a free chamber music concert tomorrow night, January 26, in Babek Hall Lounge at 8:00 pm. Caltech students will perform chamber music by Haydn, Mozart, Telemann, and Dvorak. For further information, call 213-868-5496.

Shabbat Service
Everybody’s invited to help celebrate the Sabbath this evening and the next two Friday evenings. The informal service begins at 5:30 and ends at 6:00. It is held in the Y Lounge on the 2nd floor of Winnett. Call 793-8595 for information, and call prior to Friday in order to ensure being provided to a free Kosher Sabbath dinner after the service. Everybody is welcome.

C L A G S
The Caltech Lesbian Gay and Gay Alliance will meet Sunday at 2:00 in 210 Baxter. This week’s business will include arrangements for the roller skating trip on Wednesday. Everybody is welcome to attend.

Freedom & Spirit
Come hear the talk in a series by a fascinating speaker, Jonathan O. Ekhholm, on "Autonomy, Authority and a Free Spirit," Tuesday, January 29 from 4:30-6:00 pm in Winnett Lounge. Sponsored by Hillel. Everyone welcome.

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FREE the Caltech Chinese Student Association is having its yearly T-shirt sale. The T-shirts are made of 100% cotton! The shirt is white with a black design of “Caltech” on the front and “Caltech Chinese” on the back. $7.00 each. Good material and good deal! Sizes available are S, M, L, XL. Call Christine Yu at 793-3503. (Limited offer.)

Model UN Meeting
The Model UN will have its second meeting on Tuesday afternoon, January 29, at Winnett Clubroom at 1:30 pm. All interested please attend.

Hostile Party Time
The Hotline Women’s Day Picnic & Dance Party is tonight at Winnett from 9 pm to whenever. Bring your own beach chairs at picnic baskets, or just come a dance. Everyone (male or female) who’s ever been invited is come dance away their bitchiness.

Sigma Pi
Sigma Money
The Society of Physics Students has announced a new SPS Scholarship Funded by the Sigma Pi Sigma Trust Fund. The first award, in the amount of $1,000, will be for the 1985-86 academic year. Applicants must be juniors majoring in physics and must be active members of the Society of Physics Students. Application forms are available in the Financial Aid Office. Application must be postmarked on or before January 31.

Engineering Money
Scholarship awards of $1,500 each will be made for the 1985-86 academic year from the American Society of Naval Engineers. Support for undergraduate work is limited to the student’s final one or two years of undergraduate education. Support for graduate education is limited to one year. Applicants must be U.S. citizens who have demonstrated an interest in Naval Engineering and who are enrolled in a full-time program leading to an engineering degree. Please contact the Financial Aid Office for additional information and applications. Application deadline is February 15, 1985.

Materials Money
The Society for the Advancement of Material and Process Engineers (S AMP E) is pleased to announce the continuation of its annual scholarship program that will offer 12-5,000 awards to undergraduate students.

Applications and further information are available in the Financial Aid Office. Deadline for filing applications is February 1, 1985. In addition, SAMPE offers a year’s subscription to the SAMPE Journal at no cost to each applicant.

Promotion for the announce ment section of the California Tech must be submitted typed on or with the announce ment form available at the Tech office by the Tuesday before the Friday of publication.

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