

Whoever said a picture is worth a thousand words

The CALIFORNIA Tech

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Must have been a paste-up troll

Volume LXXII

Pasadena, California, Thursday, January 7, 1971

Number 12



Student aides assist Selective Service Director Curtis Tarr in making preparations for upcoming draft lottery. This photo has been made available by the derring-do of U. S. Army Intelligence [isn't that a contradiction in terms?].

Lottery Number 100 May Stay Ceiling for Several Months

Selective Service officials announced today that registrants in the 1971 First Priority Selection Group with Random Sequence lottery Numbers 100 and below would be eligible for induction in January of 1971 and that RSN lottery No. 100 is expected to remain the ceiling for several months. The Department of Defense today set the January draft call at 17,000 men.

The First Priority Selection Group of 1971 is made up of those young men who reached the age of 19 during 1970, received lottery (RSN) numbers at the July 1970 drawing, and have not received deferments or exemptions from service. This group becomes eligible for induction beginning in January of 1971, but after the induction of those men in the Extended Priority Selection Group of 1970.

Selective Service officials pointed out that the RSN 100 ceiling applies only to the 1971 group and does not affect the liability of those young men in the 1970 prime group whose numbers have been "reached," but have not been called. These young men, members of the Extended Priority Selection Group, are eligible for induction for the first three months of 1971. Under Selective Service policy, these men must be ordered for induction

ahead of those in the 1971 pool. [our italics]

The Extended Priority Group is made up of young men born between 1944 and 1950 who have not reached their 26th birthday, were classified I-A or I-A-O at the end of 1970, and had a RSN that has been "reached" — that is, a RSN lower than the highest number called by their local board during 1970. The highest number "reached" in 1970 was RSN 195. While no local board exceeded this RSN in issuing induction orders to young men during 1970, many local boards did not "reach" that limit in meeting their calls.

Selective Service officials said they set the RSN ceiling for January at RSN 100 in order to avoid the problems encountered in 1970 of local boards being unable to deliver sufficient numbers of inductees during the early months of the year because not all young men with low sequence numbers had been fully examined and were available for induction, or had fully completed the delays inherent in exercising their legal appeal rights. In 1970, Selective Service set a RSN ceiling of 30 for January, moved this up to 60 for February, 90 for March, and 115 for April. The RSN ceiling reached 195 in August and remained there for the remainder of 1970.

News Briefs

That Was The Week That Wasn't

The Faculty Committee on Programs will present Jack Hirschman, a poet from Venice, Cal., in Winnett Student Center Lounge on January 27 at 7:30 p.m. Hirschman will be reading from his early works and his yet-unpublished collection, "Scintilla."

Baseball Team Needs You!

There will be an organizational meeting today at 4:00 p.m. in the gym for the Caltech baseball team. Old and new players are invited, as well as prospective managers and statisticians.

Hillel Meeting Coming Soon

The Caltech Hillel Club is having a business meeting on Thursday, January 14, at 7:30 p.m., in Clubroom 1 of Winnett. To be discussed are future speakers, future social events, and other new business. Your ideas are welcome. Please attend.

California Announces Fellowship Deadline

The California State Scholarship and Loan Commission announced that applications for State Graduate Fellowships must be post-marked no later than January 16, 1971.

Caltech Faculty, Graduate Program Rated High

The quality of the faculty and the effectiveness of the graduate educational program at the California Institute of Technology both continue to rate very high, and both rank No. 1 in the nation in astronomy, geology, physics and developmental biology.

This was disclosed by the American Council on Education in a survey of the graduate schools of 130 American universities.

The report also shows that the quality of Caltech education at the graduate level, which received a rating of excellent five years ago, has improved.

The survey, conducted by more than 6,000 scholars to determine the excellence of graduate programs and faculties, was designed to "be useful to the supporters, producers and consumers of graduate education," stated Dr. Logan Wilson, president of the American Council on Education.

The inquiry is similar to one conducted in 1964 by the council, which is composed of educational organizations and institutions and whose purpose is to advance education and its methods.

"To be rated so highly by their peers in quality of faculty in all of Caltech's areas of principal interest is a recognition of our faculty's dedication to their professions," said Dr. Harold Brown, Caltech president, in commenting on the report.

"For the good of the nation and of mankind, Caltech needs to continue and even to improve the quality of its educational and research activities. This will require redoubled efforts of the Caltech community, and also increased support from individuals, foundations, industry, and government."

Here is how the survey ranks the quality of Caltech's faculty among the nation's universities in the following disciplines at the graduate

level:

First in astronomy (with Princeton and the University of California at Berkeley second and third, respectively). First in developmental biology, which combines genetics and embryology, (with Rockefeller University and Stanford second and third). First in Geology (with UC Berkeley and Harvard tied for second). Tied for first in physics with UC Berkeley and Harvard.

Second in chemistry and molecular biology (with Harvard first and UC Berkeley third in each instance).

Third in mechanical engineering (with MIT first and Stanford second). Tied with Stanford for fourth in civil engineering (behind UC Berkeley, Illinois and MIT). Fourth in microbiology (behind Rockefeller, UC Berkeley and MIT).

Tied with Michigan for fifth in electrical engineering (with MIT and Stanford first and second). Tied with Johns Hopkins for fifth in physiology (with Harvard and Rockefeller first and second). Sixth in biochemistry (with Harvard and UC Berkeley first and second).

Ninth in chemical engineering and 15th in mathematics, Caltech received a rating of adequate for its graduate botany program, which has been greatly curtailed over the past decade, and good in psychology, where it has no explicit program or permanent staff. The rating in psychology presumably was for its work in behavioral biology.

As for the effectiveness of doctoral programs, Caltech was ranked first or tied for first in six categories. It placed first in astronomy, physics, developmental biology, and molecular biology, and tied for first with Harvard in geology and chemistry.

In this effectiveness category, Caltech was ranked third in civil engineering, and tied for third with UC Berkeley in biochemistry and

with Harvard in microbiology.

Fifth ranking was given Caltech in physiology and in civil and electrical engineering.

In chemical engineering Caltech tied with MIT in seventh place, and in mathematics the Institute shared the 11th position with Brandeis and Cornell. Caltech and UCLA tied for 17th in botany.

Because Caltech offers no advanced degrees in the humanities and social sciences, no ratings were given the Institute in these fields except in psychology.

The survey noted that astronomy, in which Caltech is very strong, is the discipline with the largest percentage increase of programs in the study. The number of graduate programs in this field has more than doubled, largely because of the increased interest in space science, the survey stated.

Numbers of graduate programs in five other disciplines showed increases of more than 50 percent — anthropology, botany, civil and mechanical engineering and entomology.

The survey was concerned with three factors in its evaluation of institutions: the quality of the graduate faculty, the effectiveness of the doctoral programs, and estimates of recent changes in the quality of graduate education.

To be included in the study, a university must have awarded at least 100 doctorates in two or more disciplines in the most recent 10-year period for which national doctorate data was available.

Graduate deans at the universities supplied the names of scholars to fill out questionnaires rating the institutions on whether the graduate faculties were distinguished, strong, good, adequate, marginal, or not sufficient for doctoral training; also on whether the doctoral program was extremely attractive, acceptable, or not attractive; and on how, if at all, the program has changed in the past five years.

Fourth? Third?? Second!

Bridge Tourney Sunday

by Charlie Johnson

Like pitching in baseball, bidding in bridge is much of the game. Alert defense and declarer play are indispensable but are overshadowed by the need to properly place the contract. However, this is seldom an easy task for even the best of players. The hand shown came up in a recent rubber bridge game and is a good example of a hand which is difficult to bid to its limit:

| | | |
|--------------|----------|--------------|
| North | | South |
| K9xx | Spades | Q10xxx |
| xx | Hearts | Void |
| Kxx | Diamonds | AQxx |
| Kxx | Clubs | Axxx |

With South as dealer the bidding proceeded in a fairly standard manner to what appeared to North at least as a rather aggressive contract:

| | | | |
|--------------|-------------|--------------|-------------|
| South | West | North | East |
| 1 D | Dbl | 1 S | P |
| 2 S | P | 3 S | P |
| 4 S | P | P | P |

But with the trumps behaving, 6S is ice-cold against any lead. Would your system get you there? If not, don't feel bad because it's not very likely that many would, especially with West's double, making both North and South feel that they'd been as ambitious as possible.

In Winnett Club Room 1 this Sunday afternoon at 1:30 p.m. all bridge amateurs, trolls, and sharks will have an opportunity to try their luck in Caltech's part of the first round of the National Intercollegiate Bridge Tournament. All Caltech students, undergraduate and graduate, are eligible to play, and as many as three pairs may qualify to go on, expense-paid, to the California Regional. Some enjoyable bridge is promised, and all interested players, regardless of experience, are invited to come out, since the more pairs in play, the more may qualify.

If you have any questions, get in touch with Charles Johnson, Fleming House, or Jay Siegal, Page-House. We hope to see you Sunday.

Walter Beakel to Direct Caltech Drama Club Workshop

by E. Gansner

In the never ending struggle to humanize the Caltech undergraduate, the Caltech Drama Club is sponsoring a drama workshop to be held on Tuesday evenings, starting this coming Tuesday. The workshop will start at 7:30 p.m. in the YMCA Lounge.

Directing the workshop will be Walter Beakel, an experienced director and agent. Beakel has directed a variety of plays for Actors' Studios in New York. The first U.S. production of the award-winning play *Waiting for Godot* was directed by Beakel. He is now a theatrical agent working in the Los Angeles area and handling such actors as the stars of the recent movies *Soldier Blue* and *Little Big Man*.

If you are interested in participating in the workshop, contact the Y.

Editorial

Extend the Franchise

The Supreme Court has validated the 1969 Voting Rights Act for federal elections. This act extends the voting franchise to 18-year-olds. This means that almost all of our readers will be eligible to vote in the 1972 Presidential elections.

However, the Supreme Court's decision leaves to the states the question of permitting 18-year-olds to vote in state and local elections. In California, a change to the state constitution would be required to extend the franchise.

We believe that cogent reasons exist for extension of the vote to 18-year-olds. They presently have almost all of the obligations of adult citizenship: those who work must pay taxes, those who violate the law are treated as adults in many jurisdictions (which includes state prison sentences), they can be held to contracts under many circumstances, and they are liable for the highest price a nation can exact from its citizens — death in the military services.

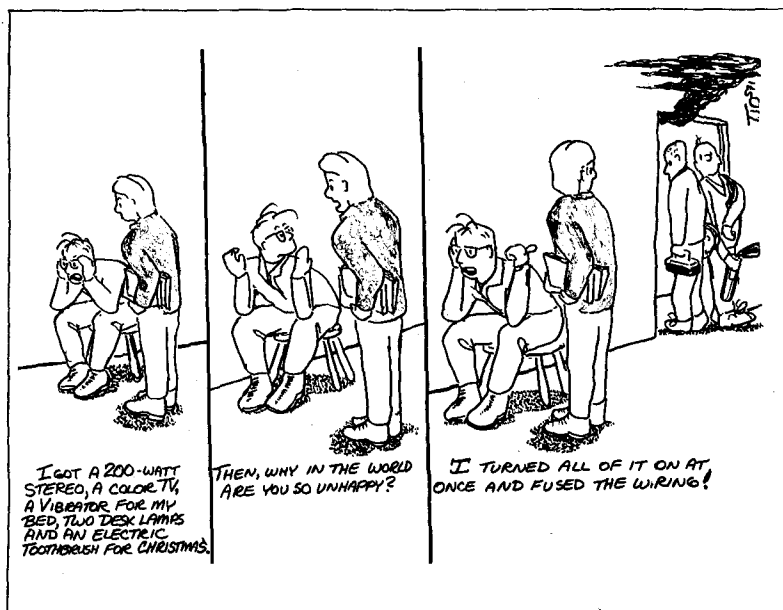
We believe that eighteen-year-olds should and can enjoy the privileges of citizenship as well, including having a voice in the governance of their locality, state, and nation. We believe that they will exercise their franchise as responsibly as citizens over 21.

Further, they are already franchised in federal elections. The state will have to bear large extra costs in maintaining separate registration lists and printing, counting, and reporting separate ballots if the vote is not extended to 18-year-olds.

In the interests of both economy and justice, we urge the State Legislature to rapidly submit to the voters an amendment to extend the full rights of citizenship to 18-year-olds, and that Governor Reagan concur in holding a special election on the issue before the 1972 elections.

We further urge our readers between the ages of 18 and 21 to register to vote immediately, and that all of our readers express the concern necessary to prompt action.

—Philip M. Neches
—Ira D. Moskatel
—Paul A. Levin



Conscientious Objection

Chances of C. O. Deferment Small

I have received a number of letters from men who are interested in getting a conscientious objector deferment either because they feel that it is the only way they can avoid the draft, or because they want the draft system to recognize their opposition to war. If you want a deferment for conscientious objection you should be aware that your chances of receiving the deferment are very limited, for reasons which will be discussed in this article.

You are entitled to a deferment as a conscientious objector if your beliefs prevent you from participating in any war. Your opposition to war can stem from any belief, as long as the belief is so important to you that it controls your actions. The opposition need not be based on religious beliefs or principles, although your chances of getting a deferment are much greater if you have a traditional religious basis for your opposition.

Hard to Get

Even if you are entitled to a deferment as a conscientious objector you probably cannot get the deferment. To get the deferment you must convince your draft board that you are sincerely opposed to all wars. Studies of the draft system have shown that draft boards

generally neither approve nor understand the deferment for conscientious objections. As a result, most draft boards conclude in advance that registrants who claim to be C.O.'s are not sincerely opposed to war, but are merely attempting to avoid their "duty" to their country.

If your draft board denies your request for a C.O. deferment there is little you can do. You can request an appeal to the state appeal board, but the appeal board will not reverse the local draft board. Similarly, you have little chance for a court review of your claim for a C.O. You cannot sue your draft board to force them to give you the deferment. You can challenge the denial of your C.O. claim only by refusing induction and raising the denial as a defense in your criminal trial to show that your induction order was illegal. You must risk a five year prison sentence to get the court to review your draft board's denial of your C.O. claim. Even then, a court will uphold your draft board unless there is absolutely no basis for the draft board's denial of the C.O. claim. The draft board's statement that you looked insincere at your personal appearance is enough basis for a court to uphold the board's denial of the C.O.

Willing to Go to Jail

Although most men who apply for a conscientious objector deferment are turned down, you may still be able to get the deferment, depending upon the nature of your beliefs, your articulateness in writing and at the personal appearance, the strength of your letters of support, and the attitudes of your draft board. However, unless you are willing to go to jail if your C.O. claim is denied, you should not rely exclusively on getting a C.O. deferment to get you out of the draft. It is generally easier to get a physical deferment, so unless you want the C.O. deferment as a matter of principle you may wish to use the C.O. deferment only as a last resort. If you feel strongly about getting a C.O. deferment, it would nevertheless be wise to prepare for a physical deferment in case your C.O. claim is denied.

Continued on Page Three

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Objection...

Continued from Page Two
 Finally, there are two disadvantages to applying for a C.O. First, if you are recognized by your draft board as a conscientious objector you may still be liable for noncombat military service or civilian alternative service, depending upon the type of deferment you are given. Thus, if your lottery number is called you will be subject to the commands of the army or of your draft board for a two year period. Second, if your claim is not recognized you will have cut in half the delay you can earn by the appeal process. Ordinarily you can have a personal appearance and an appeal and then file a request for a C.O. to obtain a new personal appearance and appeal. If you want to get a C.O., however, you should raise your claim as soon as you are classified 1A in order to avoid questioning of your sincerity. In that event you will have only one personal appearance and one appeal.

If You're Still Interested
 For those men who wish to try for a conscientious objector deferment, the next article will discuss the preparation necessary to maximize your chances for that deferment.

If you have any questions you would like discussed in this paper by a draft lawyer write: Mark A. Peterson
 19½ Horizon Avenue
 Venice, California 90291

Motion Pictures Reviewed

by David N. Dobrin
 The last breathing space before finals is over; it is now time to settle down to three weeks of intensive kissing-off. In order to aid those who plan something as world-shaking, as strenuous, as soul-satisfying and as beneficial as sitting, all senses alive and attuned, in a darkened movie theatre sometime during their heavy schedule; I have prepared a list of the most sober and morally important films now available for the inspection of an occasionally coarse-minded public. First on the list is:

Horsefeathers and *Duck Soup*, a double bill now playing at the Lido Theater. These are generally acclaimed as the two best Marx Brothers movies, and if you liked last year's Fleming House Inter-house Play, you will find them instructive, as well as entertaining, since a comparison of the two would fill volumes on just how good comedy may be perverted into bad humor. Any further description on my part would be travesty. The best movie released this year is probably:

Patton a film biography of the World War II scapegoat and scapegrace starring George C. Scott, who has his greatest moment on film in this movie, deserves all the praise that President Nixon has heaped on

Moral Importance Cited

it, unfortunately. The man was so gigantic, he had so much influence on those around him, and inspired so much reverence or rancor, each mixed with awe in those who merely looked at him, that the major problem of the movie was to portray him without condemning or condoning. Accuracy thus became the motif and every detail on the wide screen in every scene of a three-and-a-half hour movie was lovingly attended to.

This is not to say that Patton is not a work of art. The subtlety and the symbolism are difficult to grasp in their entirety even after many viewings, but one feels that even the symbolism is characteristic of this violently religious man. George C. Scott acquits himself with aplomb of the incredibly difficult task of reliving Patton.

Good as it is the Oscar will probably be taken away from *Patton* by

Catch 22 but there is a lot more. *Catch 22* is a brilliant transcription of a very uncinematic novel into the film medium. The black comedy, the "war is hellishly funny," the desperate gaiety of the book is preserved, although near the end Nichols stops being funny and begins to preach and thereby nearly loses the effect. Those of you who know the book by heart will be ecstatic to be able to see the scenes you know so well, and you can hardly quarrel that many scenes are left out. The greatest compliment given the film has been the screams of outrage from World War II veterans who say, "WW II wasn't really that way." That the movie, although great is not as good as the book can also be applied to:

Women in Love. Nobody who has not read him and few who have can understand how truly great D.H. Lawrence was. *Women in Love* is a beautiful film made by a man with a great appreciation of Lawrence, and one can fault him only in that he isn't Lawrence. Don't go see it twice; the man is striving to achieve the effect of the moment, and if you know it too well, you can begin to see the flaws, and don't be disconcerted by the fact that one of the women looks like Debbie Reynolds. She isn't and it isn't. A movie totally different from the aforementioned, in fact just totally different is:

The Baby Maker, which stars Barbara Hershey, the spoiled brat in *Last Summer*, in the title role is an impossibly good movie. A couple hires a girl to have a baby by the husband. Sounds awful, doesn't it? The entire movie is carried off with grace and sympathy, and more important without stepping into the myriad pitfalls which abound when making a movie with such profound moral implications. When I left the movie theatre I had to thread my way through groups of people all discussing, generally heatedly, different aspects of the film.

One of last year's movies which has just come out in multiples is: *Z*. I would like to correct a few misimpressions. *Z* is not one of your typical murky, incomprehensible foreign films; it is basically a whodunit. But it is also far, far more. Go see it if you go see ten movies in a decade.

Wagner Go Home

by Paul Levin
 Several weeks ago Caltech's Beckman Auditorium "proudly presented" the Roger Wagner Chorale. While the full-house probably made some money; it would have been better to have had no performance at all.

The concert was billed as a Christmas concert, but there was only one piece of Christmas music, and probably no more than ten percent of the audience knew that it was Christmas music. This was Sweelinck's *Hodie Christus Natus Est*, a great piece of music if you can sing it; they couldn't. The Glee Club from my high school can do it better.

The remainder of the concert was either secular or sacred music not related to the Christmas season. Wagner led his group through the French version of "My Heart Commends Itself to Thee;" even on an off-day the Caltech Glee Club's Chamber Singers perform the piece better than that. Their rendition of Leonard Bernstein's *Chichester Psalms* was so mushy that even those who knew the Hebrew had difficulty following the lyrics.

The Chorale was finally warmed-up by the time of the final number, so the encores went somewhat better. However, they devoted their new-found blend to such Christmas favorites as "Polly-wolly-doodle-all-the-day."

It is rumored that the Caltech Glee Club was planning its own Christmas concert until Beckman booked the Roger Wagner Chorale. Let's give the Glee Club the chance next year.

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Beckman Auditorium welcomes you to an expanded series of programs this winter and spring. In addition to the regular series (concerts and plays, the Caltech Lecture series, Coleman concerts, and the Encounter series), Beckman offers special lectures presented by the Leakey Foundation, and a sparkling, innovative children's series.

Saturdays at 11 a.m. and 1 p.m. will see Beckman become a children's delight.

World balladeers Marais and Miranda open the series on January 30, with their Songs of Nature and ballads from here, there and everywhere. They will also introduce the youngsters to some of the exotic instruments they play - the lulanga, Mbira, African drums, rattles, etc.

On February 20, the French film classic, *The Red Balloon*, will be screened. On March 13, the Caltech Band will present a tribute to The Circus with a lively kaleidoscope of music from *The Big Top*. There will also be some traditional circus acts. The final program in this series is the State Repertory Theatre production of "Annabelle Broom," a musical play for children about an unhappy witch, to be presented on May 1.

Regular Series

The noted British actor, Emlyn Williams as Charles Dickens opens the regular series on Friday, February 12, at 8:30 p.m. followed by Itzhak Perlman, violinist, on Saturday, February 20; Burch Mann's Ballet America performing "Big Country" on Friday, February 26; Julian Bream, lutenist and guitarist, on Wednesday, March 10; the

Kipnis Mime Theatre in a new revue entitled "Opus Blue . . . is Pink," on Saturday, April 17; the Romeros, Spain's first family of the guitar, on Saturday, May 1. All series events begin at 8:30 p.m.

Special added attractions have been scheduled. These include Moliere's *Le Misanthrope*, performed in French, directed by Antoine Bourseiller and performed by Le Centre Dramatique National du Sud-Est of France, on Thursday, February 25 at 8:30 p.m. The National Shakespeare Company of New York will present *Much Ado About Nothing*, directed by Mario Siletti (of the Met.) on Friday, March 12, at 8:30 p.m. The original San Francisco satirical revue, *The Committee*, will pay its first visit to the Caltech campus with two performances in two different programs, on Thursday and Friday, April 15 and 16, at 8:30 p.m.

Chamber Concerts

The Sunday evening chamber music concerts resume in Dabney Hall when the Los Angeles Wind Quintet performs on January 17, at 8:15 p.m. Louise di Tullio (flute), Norman Benno (oboe), Hugo Raimondi (clarinet), Don Christlieb (bassoon) and James Decker (French horn), will perform works by David Ward Steinman, Jean Francaix, Ramiro Cortes and Gunther Schuller.

These concerts are free.

Complete ticket information and brochures describing all events may be obtained by phoning Beckman Auditorium, campus extension 1653.

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