

Students Resist "Atomic Exams"

Horrible, Calamitous Doom Threatens Techmen As Chances for Peaceful Arbitration Grow Slim

By Mike Sellen

The air of tension in higher state circles was momentarily eased this week with the hint from capital sources that renewed peace efforts were shortly forthcoming. This announcement marked the first declared hope that reconciliation between the two conflicting ideologies might be attained, but these feelings were not universal and were contrasted by a general air of pessimism in other quarters.

Barrie's Statement
"We now know definitely that the Faculty has prepared and exploded an atomic examination somewhere inside Throop," said Military Director of the Atomic Energy Commission General Donald M. Barrie in an interview with the press. General Barrie added, "Reports indicate that Faculty scientists may have on hand a stockpile of almost 100 of these atomic examinations. In the race for arms we can spare no effort."

Reverend Speaks
Other sources spoke out against this view. In his weekly radio address, Midweek Meditations, Reverend James M. Hendrickson, President of the Caltech Montheistic Society and spiritual leader of millions, called upon his followers to adopt the moods of humility and contrition. Reverend Hendrickson climaxed his appeal for peace with the words, "Let he who is without sin cast the first examination."

The "Great One"
With these statements attention fell ever more heavily upon aging Edward Geoffrey Revay, Sixth Lord of Crellin, and No. 1 Conservative. Called hurriedly back to Pasadena in the midst of the crisis, Lord Revay's commanding presence set at ease the more anxious government officials, and inspired confidence in the crowds which gathered through the night about Crellin Hall hoping for an announcement.

Roaring Crowds
The size of the hords multiplied, while inside Crellin the lights blazed on unceasingly, and page boys scurried to and fro. At intervals carriages drew up before the vast doors depositing statesmen who disappeared grim, tight-lipped into the storied chambers. Slightly before dawn Lord Revay appeared upon the balcony occasioning a thunderous ovation from the waiting thousands. His Lordship raised his hand and the vast throng quieted instantly, listening intently and straining through the darkness for the first words. A proffered microphone was impatiently brushed aside by His Lordship. Flashbulbs clicked. He spoke:

Words of Wisdom
"Fourscore and seven years ago our forefathers brought forth upon this campus a college dedicated to the proposition that the good that men do is interred with their bones. We are here now to make a choice between the quick and the dead.

"That is our business.
"Behind the black portent of the new atomic examination lies a hope which, seized upon with faith, can work our salvation. If we fail, then we have doomed every man to be a slave of fear.
Crisis Is Here
"Our emissaries are even now at the doors of Throop pleading for a greater understanding. If
(Continued on Page 4)

Campus Calendar

- THURSDAY, MARCH 9**
12:00 Y Upperclass Lunch Club
12:00 Throop Club Meeting
4:15 Varsity Baseball, Caltech vs. Glendale J. C., Caltech Athletic Field
7:15 ASCIT Board of Directors Meeting in Lower Fleming
- FRIDAY, MARCH 10**
11:00 Occidental Glee Club in Culbertson
1:30 Varsity Golf, Caltech vs. Santa Barbara at Santa Barbara
- SATURDAY, MARCH 11**
1:30 Varsity and Frosh Track Conference Relays at Occidental
1:30 Tennis, Varsity vs. Whittier at Whittier
1:30 Tennis, Frosh vs. Whittier at Caltech Athletic Field
2:15 Baseball, Caltech Varsity vs. Nazarene College at Caltech Athletic Field
- MONDAY, MARCH 13**
Finals

Y Will Choose Wheels Tonite

Tonight at 7:30 in the Dabney Hall of Humanities Lounge the Caltech YMCA is holding its annual election of student officers for the coming year. All the students who have participated in the Y's activities or who have an active interest in the organization are urged to attend.

The officers to be elected and the candidates running for these offices are:

- President**
Leo Baggerly
John Lewis
- Vice-President**
John Boppart
- Secretary**
Jack McEwing
Phil Orville
- Treasurer**
John Flynn
- National Representative**
Mike Bader
Barney Engholm
- Publicity Manager**
Larry Starr
Tom Stockebrand

CIT Brochure Makes Debut

By Duane Marshall

Yes, there are still some poor ignoramuses in this country that don't know too much about our great institution. CIT has been doing a large amount of work to clear away this smog of ignorance. Now in our hands is a new weapon. The Institute has published a booklet, **Facts About the California Institute of Technology**.

This little booklet does its best to dispel all the bugaboos about CIT. The approach to the matter is handled in a much warmer manner than the present cold catalog of facts and figures.

Traditions Described
Undergraduate life is accentuated. Social programs of the houses are exposed. The houses and Frosh "rushing" are described in interesting, real terms. Sports and figures about the percentages of undergrad participation in them are given.

In short, here is a booklet to defend us.
The original purpose of the (Continued on Page 4)

Bio's To Desert For Field Trip

Final preparations are under way for the Biology Club's spring vacation field trip to the Organ Pipe Cactus National Monument. All campus personnel interested are invited to join this four-day journey to view and study desert wild flowers.

Under the direction of Dr. Fritz Went, the trip will touch several desert regions of Southern Arizona and may touch part of Mexico if sufficient interest warrants it.

Camp Out
Open-air camping, camp fire cooking, and a share-the-ride policy make it possible for expenses to be cut to a minimum, and increase the informal enjoyment of the desert scenery.

Tell Stowe
Since it is necessary for the final arrangements to be completed as soon as possible all persons interested in attending should indicate their interest immediately. A note to Bruce Stowe, Fleming 72; Charles Bates, Blacker 21, or left in the B box in Lower Throop will ensure your attendance on this very worthwhile trip.

Film Classics Set for Spring

The popular film classics series will be held again next term, according to an announcement by Dean Strong, chairman of the Faculty Assemblies Committee. Dean Strong is withholding more tickets than before for the use of the students.

Students may purchase their tickets from Miss Pond in Throop Hall for the nominal price of ninety cents—only 18c per evening's entertainment.

Film Comments
Paul Ballard plans to comment on each film for about 10 minutes just before its showing, pointing out the unique and interesting features of each.

This is the first year that film classics assemblies have been held, and they have been successful from the standpoints of entertainment and education.

"We hope," said Dean Strong, "that there will be more students enjoying this series next term than in the previous terms."

Included in next term's program will be several interesting abstract films.

The films will be presented, as usual, at 7:30 p.m. in Culbertson Hall. The following are the films:

- April 2 and 3:
Top Hat (1935)—Fred Astaire and Ginger Rogers.
Fiddle-Dee-Dee (1948)—Canadian abstraction.
La Poulette Gris (1948)—Canadian cartoon.
- April 16 and 17:
The Blue Angel (1930)—Von Sternberg direction, with Marlene Dietrich and Emil Jannings.
Uberfall (1929)—German experimental mood film.
- April 30 and May 1:
Male and Female (1919)—Cecil B. DeMille direction with Gloria Swanson.
The Brotherhood of Man—short racial film.
- May 14 and 15:
The Freshman (1925)—Harold Lloyd.
The Sex Life of the Polyp (1928)—Robert Benchley.
The Skeleton Dance (1929)—Disney.
- May 28 and 29:
Bombshell (1933)—Jean Harlow Documentary.

Tech Reporter Discovers Fowl Social Order

BY BOB STANAWAY

Our dumb animals? Perhaps, but after the interview with Dr. Douglas concerning her research here at the Institute on the sociology of chickens, I can't help but wonder if we couldn't take a few lessons from our feathered friends.

Here at the Institute in the farm-like atmosphere in the basement of Kerckhoff, as one of the many projects in the Biology Department, can be found the work directed by Dr. Douglas, who is at present doing basic research on the sociology of chickens. Amazing as it may seem, chickens have a very definite social ladder, as have all species of vertebrates.

Pecking
Let us look a little closer at the facts by virtue of which we make this statement. Almost everyone has at one time or another seen one chicken peck another. Little thought might be given to this gesture, but actually it is at least one method existing in the flock by which we can distinguish the different levels of the chicken social ladder.

Beginning at the top there is the chicken who can peck all the others without being pecked back. At the bottom, there is a chick who can't peck any of the others but who can be pecked by every other one of the members of his flock. This is truly a puzzling phenomenon to us who don't even know how they identify each other. Yet there is seldom a mistake in the pecking order of the flock. It has been observed that when a mistake is made, the unfortunate

chick who stepped out of line is punished severely by the others.

Occidental Glee Clubs At Tech Assembly Tomorrow

Registration
Third term registration will take place Monday, March 27, following Spring vacation. Classes will resume March 28.

Tau Beta Pi Initiates 13

The large bent hanging over the steps of Throop announces the beginning of a three-week pledge period for 13 prospective members of Tau Beta Pi, national honorary engineering fraternity.

Twelve juniors and one senior were chosen on the basis of their exceptional scholastic records and qualifications of character.

James Hendrickson is the lone senior pledge.

Junior Pledges

The twelve juniors and their options are John Bjerkle, ME; Edward Davis, EE; Franklin Goodman, EE; John Holmes, Math; James Ibers, Chem; John Johnston, Physics; Thomas Layton, Physics; James McQuiston, ME; William Wright Jr., ME; John Rogers, Geol.; Edward Stern, ME; and George Trilling, EE.

Qualifications

Eligible for election are juniors in the top one-eighth of their class, and seniors in the top one-fifth of their class. Once eligible, however, considerations of character and participation in extra-curricular activities, enter into the selection of future members.

Banquet Climax

Members are chosen twice a year. The initiation period for this batch of pledges will last for approximately three weeks, during which time pledges will polish and machine the Tau Bate bents for the actives, collect the signatures of 100 alumni Tau Bates and the 44 actives. They will also write and act out a skit for the formal banquet which will climax the initiation period.

Classical and Folk Selections Offered By Popular Choral Group

In the last Friday assembly of the winter term, Caltech students will be treated tomorrow to a varied program by the Occidental College Combined Glee Clubs. Mr. Howard Swan, director, will wield the baton.

This organization is recognized as one of the best, if not the best, of all college glee clubs on the Pacific coast. Soloists include Grace Lynn Martin, Alberta Holter, and Marilyn Hall, sopranos.

Blacker And Fleming Elect New Officers

Fast on the heels of the ASCIT elections of two weeks ago came balloting for new house officers last week in Blacker, Fleming and Ricketts.

Earl Hefner will be the new prexy for Blacker House, while Dallas Peck will take over the top responsibilities in Fleming for the next three terms.

Other new officers in Blacker are: Kyle Catterlin, vice-president; Neil Stefanides, secretary; Hiroshi Kamei, treasurer; Bill Pilkington, librarian; and Art Cuse, pope.

New Wheels

Fleming's newly elected house wheels are: Dick Libbey, vice-president; Waheed Ghauri, secretary; Dick Jones, treasurer; Al Haber and Al Pitton, co-social chairmen; Norm Gray and Norm Peck, co-athletic managers; and John Gee, librarian.

Election returns from Ricketts came in too late for publication in this issue of the "Tech."

Dabney does not hold its elections until the beginning of next terms.

Surprises

This year's houses elections were characterized by a large number of candidates for many of the offices. Surprises were forthcoming, especially in the Fleming secretarial race.

All the new house wheels were inducted into office in a manner befitting the dignity of their new positions.

Pianist Gloria Green is one of the outstanding young pianists of Southern California, having won several young artists' competitions, including those at Occidental College and U.C.L.A.

Versatile

Members of the Glee Club have sung the Brahms and Verdi Requiems with the Los Angeles Philharmonic Orchestra under the direction of Alfred Wallenstein. Last year, the glee clubs appeared with several motion picture personalities, including Gordon MacRae, Jane Powell, and Vincent Price.

TV and Radio

The glee clubs have sung over television and over national radio hookups on several occasions. Performances have also been given in many of the leading hotels of San Diego, Los Angeles, and San Francisco. In constant demand for school, club, and church programs, this group leaves no doubt of its popularity.

During the recent ten day vacation between terms, the Oxy Glee Clubs went on a tour which included towns all over California and Nevada. Notices were unanimously favorable. Typical was an enthusiastic comment by the dean of all glee club maestros, Bob Shaw. After the Napa concert, he remarked, "A damn fine concert." This is high praise indeed, coming from the source that it does. In all more than thirty performances were given.

Program

The program tomorrow will include both classical and folk selection. This will undoubtedly be one of our more popular assemblies. The rally committee has worked hard in securing such outstanding talent. A full attendance will not only mean satisfaction for all present, but will also encourage future concerts by this and similar organizations.

Interview Schedule

- MARCH 9—NAVAL ORDNANCE TEST STATION**, Pasadena Annex, Foothill Blvd., will have representatives on campus Wednesday, March 9, for the purpose of interviewing students at the P-3 grade level in CHE, ME, AE, EE men experienced in instrumentation, measurement, pressure gauges, etc. also eligible. PhD degree men automatically P-3 grade—or Professional degree men with approximately a year's experience, or MS degree men with a very minimum of 2 years' experience.
- MARCH 10—NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS**, Moffett Field, Calif. Mr. E. P. Hartman, interviewer. MS, AE, and PhD degree men in Aeronautical Engineering and Mathematics. Openings will be in Moffett Field, Calif.; Cleveland, Ohio; and Langley Field, Virginia. (No summer openings).
- MARCH 29 & 30—EASTMAN KODAK COMPANY**, Rochester, New York. Dr. Norwood Simmons, interviewer. Details later.
- MARCH 30 & 31—UNION OIL COMPANY**, Los Angeles, Calif. Mr. J. P. Rockfellow, Mgr. Employee Relations, interviewer. Details later.
- MARCH 31—NORTH AMERICAN AVIATION, INC.**, Aerophysics Lab., Downey, Calif. Mr. Holbrook, Personnel Manager, interviewer. Details later.
- APRIL 3 & 4—INTERNATIONAL BUSINESS MACHINES**, Endicott, New York. Details later.
- APRIL 3, 4 & 5—E. I. DUPONT & de NE-MOURS COMPANY**, Wilmington, Del. Mr. J. W. Reynard, Personnel Division, interviewer. Details later.
- APRIL 6—MARQUARDT AIRCRAFT COMPANY**, Van Nuys, Calif. Mr. R. A. Getz, Administrative Engineer, interviewer. Details later.
- APRIL 11 & 12 (Tentative)—GENERAL ELECTRIC COMPANY**, Los Angeles, Calif., and Richland, Washington. Mr. H. C. Hill, Industrial Division, and Mr. S. W. Scarffe will interview from L.A. Mr. D. W. McLeneagan, Technical Personnel, from Hanford Works. Details later.
- APRIL 24, 25 & 26—GENERAL MOTORS CORPORATION**, Detroit, Michigan. Mr. Kenneth A. Meade, interviewer. Details later.
- THE U.S. NAVAL CONSTRUCTION BATTALION CENTER**, U.S. NAVAL STATION, Port Hueme, Calif., is in the process of establishing a new organizational unit entitled U. S. Naval Engineering Research and Evaluation Laboratory. Most of the positions are concerned primarily with research along various engineering lines including electronics, chemistry, physics, mechanical engineering, and geology. It is their desire to receive applications from well qualified persons in these fields. The positions range from the trainee grades of GS-5 (\$3351 per annum) through the higher echelons of GS-14 (\$8800 per annum).

(Continued on Page 4)

THE SQUARES' CIRCLE

To the Editor:
Once again the Instituturs came through and did a fine job of decorating for the ASCIT dance last Saturday night. The hut over the bandstand was prefabricated in Ricketts court. Norm Fink (Institutur president) and about ten men spent most of the day up at the Altadena Country Club working. Other Instituturs spent many hours obtaining the palm leaves and other materials used for the decorations. For all of their work the ASCIT social committee feels that the Instituturs deserve a definite vote of thanks.

Bill Freed
George Sawyer

ON THE RECORD

by Bill Whitney
BY BOB DEVERILL
(Guest Editor)

Those of Caltech who were so ambitious as to have gotten themselves from wherever they happened to be Sunday afternoon to the Pasadena Presbyterian Church on Colorado Street would have been rewarded by a performance of Bach's B Minor Mass. The performance, under the able direction of Occidental's Howard Swan, was satisfying in many respects, but in others quite unsatisfactory.

The chorus sang well, particularly in the first Kyrie and the Cum Sancto Spiritu. The only blots on their record were the fault of the bass section, who had the bad habit of singing slightly flat, and a bit slower than the others at times. The two soprano soloists are to be commended for their singing of the Christe, which was the highlight of the afternoon.

The chorus was accompanied by the Pasadena Women's Orchestra, whose strings were very good, the violins in particular. The continuo, played by the cellos, string bass, and organ, kept the whole work moving and was executed with consistent artistry.

All the petty shortcomings of the performance which I have mentioned were all but compensated for by the comparative brilliancy of the female chorus and of the strings. However, there was one serious breach of artistry which can neither be overlooked or easily forgiven. The three trumpet parts which Bach scored were completely omitted and given to two clarinets. A clarinet trying to play the part of a trumpet, to say nothing of a clarinet trying to play one and a half trumpet parts, is just about as absurd as an English horn playing a horn part. In fact, they tried this, too, in the Quonian.

I am glad to report, however, that even these crimes were not enough to ruin Bach. The greater portion of the Mass soared majestically above the various

Potpourri

By Bob Crichton

This story arrived from Paul Saltman (class of '49), who is studying in France. It appears that Paul quit the Racing Club de France basketball team because he had a little run-in with the coach, Busnel, who is also a big gun in French basketball. Busnel had been rather annoyed that Paul was leading the scoring column and getting more space in the sports section than he was. So Paul spent several weeks riding the bench and the Racing Club began losing games until they dropped to fourth place. Paul and a Hungarian boy finally got fed up and told Busnel that he should get off the playing floor (he's 42) and start coaching the team.

One word led to another and finally Paul told him what he could do with the R.C. de France and if he thought he was such a great coach, that Paul would bet him any amount he might wish that Paul could get up a club of American boys in two weeks' time and whip the pantaloons off of him—to which he had no reply. As a result, Paul and a guy from Stanford are getting up a squad under the sponsorship of American Express and will see what they can do.

Apparently, quite a few people misinterpreted my comments a few weeks ago when I said that the Health Center is very successful in the use of preventive medicine. They were deluged by multitudes of people asking for the preventative for their colds, flu, et cetera. Well, what I meant to say was that once a person is really sick, they make sure that he is really well before they turn him loose.

In a lecture to the Royal Institute of Great Britain, Dr. Hans Pettersson, Swedish Professor of Oceanography, had some depressing things to say about water shortages. In a few thousand million years, he noted, there won't be any water left at all. The earth, according to Pettersson, is suffering from progressive desiccation, an ailment common to all aging planets. It is drinking all the water in the oceans, converting the water into components of its solid crust. "It will then have reached the present tragic state of its neighbor, Mars, with its oceans gone," said Dr. Pettersson, "and with them, inevitably also, its oceanographers."

oversights which I have mentioned, unstained and essentially holy, but a true lover of Bach's music couldn't help being disturbed. My sentiments concerning the performance were these: Let us hear more of the Mass in B Minor performed by equally adequate groups in the future, but let us also have trumpets and horns where they belong.

CAMPUS BREWINS

Feeling the need for culture, intellectual stimulation, and entertainment, the Beak forsook his customary wanton habits for the Theatre Friday night. Much to his righteous indignation, he was distressed to find some of the very leaders of our community unmindful of the play's message. Numbered amongst these were the Frothing Fox with pedagogue from West Covina High School, Peter Pauling with perennial pulchritudinous partner, and Sampson with deliberate Deililah.

Tom Russel's date was much concerned over his desire to search for white lines in the middle of vacant lots instead of on the highway. Reports have it, however, that Tom saw his way through.

Returning from his excursion into the external world of reality, the Beak meditated upon the problems of the California Institute. A new type of Institute parasite has been found in Dabney House; it differs from the ordinary Dabneyite by causing the B&G people to foist upon the fearful House a fumigation frolic. Deflated residents of the Southwest Corner are compelled to empty closets and drawers. By careful entomological survey and triangulation, it was discovered that the offending parasites emanate from Room 39.

Sublimating his thoughts to pure intellectualism, the Beak next turned his gaze eastward. The White Wall seems to be harboring a monster of another sort within its shadowy environs. To quote the last edition of its weekly newsletter under the heading "ENTHUSIASM," "... the number of people that it effects (lit. "makes") is far beyond the range of our smugly inside the white wall..." We would indeed appreciate an explanation as to the nature of the animal known as "smugly" and a more detailed description of its wondrous powers. The feature article under the head "DEVELOP THE CHEST"

proved not so interesting after all, but we do not doubt that we were expected to mention it. The Beak recalled the story of Don Asquith, who was reported last week as having been hooked by a Schimpssie, and was rumored to have made several attempts to get the pin in the proper place while presenting it to the young lady.

Another notable endeavor reported was Jack Scantlin's, who finally attended all of an H 5 lecture, strapped to a swivel chair on top of McCreery's lecture desk.

Having thus fortified himself with meditation, the Beak ventured forth once more on Saturday with renewed faith in humankind. Betaking himself to the ASCIT dance, he became engulfed in complete darkness, at anaerobic conditions, temperature 35 deg. C. The Beak would have seen nothing, were it not for the shining lovelight in the eyes of such newcomers to the social set as Big Don Barrie, Charlie Paulson, Dwight Schroeder, Teddy Einwohner, Dick Fairall and Palmer Smith.

Scarcely having recovered from the initial shock, the Beak listened rapturously to Dr. DuBridge's unexpected accolade of the Campus Brewins. Dr. Hallett Smith, making his debut, then approvingly eyed all Techmen and their dates and stated he was glad to see that the students were interested in other girls besides his secretary. The titters

subsiding, darkness reengulfed the troops: Dr. DuBridge was next seen dancing with aforementioned secretary, soon to give her up to her escort, Harry Ellis.

The vigilant Beak next espied Leander Longfellow bound by a single yellow lei to his leading lady, Miss Nomer. Also present was Ed Schlinger, late of Huntington Hospital, who had just the day before resumed his social activities with renewed vigor by escorting his healer's daughter. Next detected was John Moss' recent Mediterranean conquest, alas with a bedraggled Senior geophysicist. Fleming's Mother Bulman, faithful to his House colors, was seen in the throes of passion with a red-clad damsel.

The only mishap of the evening occurred to one poor unfortunate J. McKinney, who was apparently unaware of his charms, and complained afterwards that his date was very friendly and may have strained his moral fibre.

Having once more returned to his beloved alma mater, the Beak was rudely awakened on Monday morning at 6 a.m. as the Ricketts sophomores, under the

Egad!

The cute little thing entered the Doc's office with a worried look.

"Doctor," she said, "I need an operation."

"Major?" asked the Doctor.

"No," she said, "Sergeant."

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leadership of "Captain Tom Tootsie" Benson, brought out the Rowdies' brakedrum. This provoked a torrent of caustic comment from the Freshmen, who refused to roll out of the sack to participate in the chase. Later in the day, the initials of the words "Cautious Soul" appeared in yellow paint on all the Sophomore doors.

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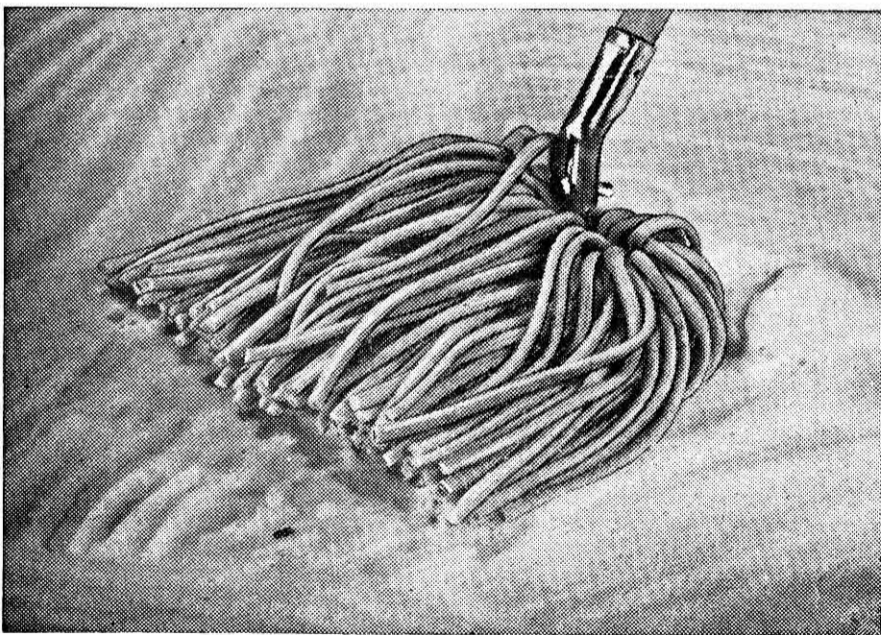
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THE DU PONT DIGEST

Science Makes a Better Mop
Cleaning tasks lightened by new Du Pont cellulose sponge yarn



An ordinary mop has a bad habit of unraveling. It often leaves a trail of lint. And it wears out fast. A man who sold yarn to mop manufacturers decided to do something about these nuisances. Perhaps some reinforcing material might be combined with the yarn. He did some experimental work of his own but more and more he wondered if it might be possible to use a cellulose sponge coating.

THREE YEARS OF RESEARCH

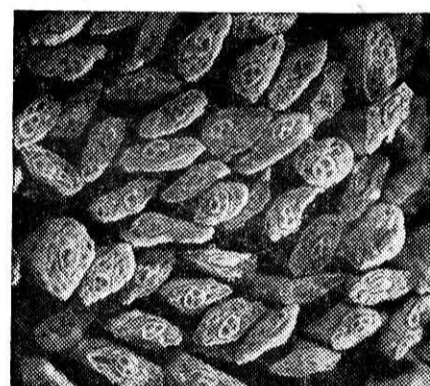
So the man called on Du Pont, the company that had introduced the cellulose sponge to America in 1936. The suggestion of a sponge yarn presented a challenging problem.

Some way would have to be found to extrude a tightly fitting cellulose sponge jacket around each strand of

the yarn. The whole sponge process would have to be adjusted for use in an especially designed machine. Du Pont chemists and engineers tackled these problems.

Even the very first cellulose sponge yarn produced experimentally made mops that were strong, absorbent and durable. But the process had to be changed and improved time and time again. Then the mops were tested in places where they would get the hardest usage—railroad stations, for example.

The mops performed so well that Du Pont built a pilot plant near Buffalo and, under a license from the man who had the original idea, manufactured the yarn on a small scale. Only after three years of study and testing was Du Pont able to



CROSS-SECTION of the new mop yarn. Each cotton fiber strand is jacketed with cellulose sponge material.

offer mop manufacturers the yarn in commercial quantities.

FASTER AND CLEANER

Mops made with cellulose sponge yarn pick up and retain so much water they need wringing less often. You can mop a floor with them in far less time than it formerly took. They dry quickly, leave no lint. They outwear other mops three to five times. Best of all, perhaps, they stay dirt-free longer than ordinary mops. Here is something women will appreciate—a clean mop!

The introduction of these new cleaning tools is another example of how business firms of all sizes depend on each other. The Du Pont Company had facilities for specialized research on cellulose sponge. Because Du Pont could supply sponge yarn economically, some twenty mop manufacturers today have a better product that saves maintenance people and the American housewife time, labor and money.

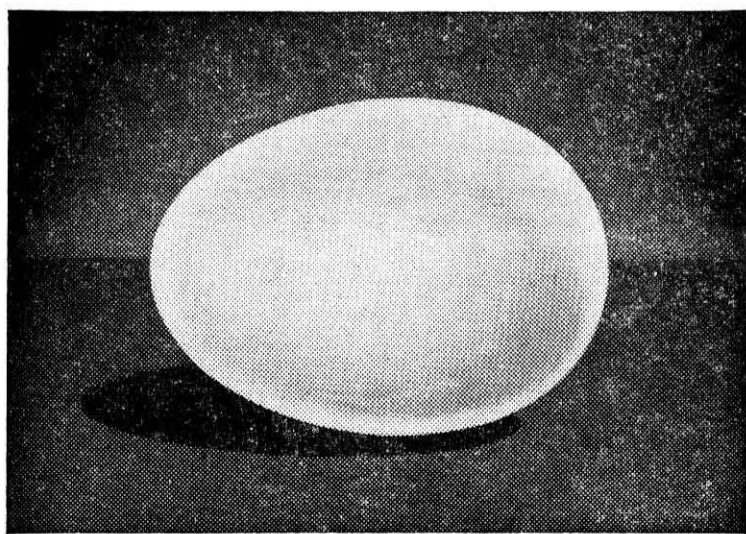
SEND FOR "The Story of Cellulose," a 43-page booklet that tells how wood and cotton are transformed into sponges, textile fibers, lacquers, plastics, coated fabrics, Cellophane and many other useful products. Illustrated with photographs, charts and chemical equations. For free copy, write to the Du Pont Company, 2503 Nemours Bldg., Wilmington 98, Delaware.



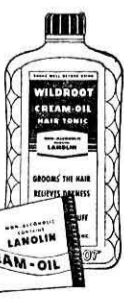
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Wildroot Company, Inc., Buffalo 11, N. Y.

Darbs Annex IH Ski Title

In one of the trickiest slalom courses Caltech skiers have faced this year, Dabney captured the laurels, downing its nearest opponent by almost a minute on a one minute run. Keen competition and traditional rivalry between the teams gave the snowmen plenty of butterflies for lunch on Sunday. A heavy spring snow made the going plenty rough and put bad luck at an optimum. The Darbs displayed good teamwork and steady boards as they came through on top. The results were:

Total Time, Two Runs	
1. Blom, (D)	117.8 sec.
2. Stanaway, (D)	118.1 sec.
3. Jones, (F)	121.2 sec.
4. Price, (R)	129.8 sec.
5. Bradley, (R)	135.1 sec.
6. Stranahan, (F)	141.1 sec.
7. Thorntsen, (D)	166.7 sec.
8. Gardner, (R)	192.4 sec.
9. Ferral, (F)	364.8 sec.
10. Smith, (F)	317.2 sec.
11. Drinkward, (D)	358.9 sec.
12. Hanna, (R)	420.0 sec.
Team TOTALS:	First three men
1st Dabney	402.6 sec.
2nd Ricketts	457.3 sec.
3rd Fleming	627.1 sec.

Butler, Cox On All-SCIC Team

At the meeting of all conference coaching staffs last Monday night, the selection of the first and second 1950 All-Conference basketball teams were made. Although Caltech failed to place a man on the first team, Captain Bill Cox and Thorne Butler were honored with second-team positions.

Along with the choosing of the All-SCIC teams, the school Athletic Departments submitted their respective 1950 football schedules. Agreement was also reached by which the Frosh All-Conference Track Relays will be held the afternoon of April 21 instead of the scheduled co-meet with the Varsity, the night of April 22.

The 1950 All-Conference Basketball Teams were as follows:

- First Team:**
 Gene Haas (Occidental), F.
 Robert Rosenberger (Redlands), F.
 Warren Kreutzberg (Redlands), C.
 Gordon Pedersen (Whittier), G.
 Lee Fulmer (Redlands), G.
- Second Team:**
 Pete Welsh (Pomona), F.
 Charles Reed (Whittier), F.
 Thorne Butler (Caltech), C.
 Bob Essig (Pomona), G.
 Bill Cox (Caltech), G.

Throp	Won	Lost
Dabney	2	2
Ricketts	1	3
Fleming	0	4

Beaver Sports

Track Preview

—by Pete Mason

Gentlemen: Oxy is loaded this year. As anyone who saw the Sunday papers may have observed, Oxy took eight first places against a reputedly strong SC team. John Barnes, breaking conference records in the 880 and mile, and Bill Parker winning the 220 and 440, accounted for exactly half of this total. We have one consoling thought, however. Caltech was the last team to beat USC in a dual meet—that was back in '45. To return to the present, we conclude the track preview with the mile and two-mile events.

Mile—Running this at present are Bill Pilkington, Bill Lans-

(Continued on Page 4)

FINAL STANDINGS SCIC BASKETBALL

Team	W.	L.	Pct.
Redlands	7	1	.875
Occidental	4	4	.500
Pomona	4	4	.500
Whittier	4	4	.500
Caltech	1	7	.125

Netsters Suffer Triple Set-Back

Last week, in preparation for the first conference match of the season against Whittier this Saturday, the Caltech tennis team played three practice matches. Coach Lamb's boys showed good possibilities but the team is definitely feeling the loss of their number one man Sid Stone who is temporarily ineligible.

The first match was played against East Los Angeles City College who dropped us seven to two.

7-2 Again

The next match was played against PCC the following day on the latter's courts. The team was unable to do much better than they had done the previous day and dropped the match seven to two. The only Tech winner was Roger Baier who won his third singles match and took his doubles match. His partner was Thorne Butler. Jack Martin lost his first singles match to Grigry, who has a California State ranking. However he had trouble downing Martin, the final score being 6-4; 7-5.

And Again

Saturday we were invaded by the Santa Barbara team and again lost seven to two.

The scores were as follows:
 Tully (SB) def. Martin (CT) 7-5, 6-2;
 Poindexter (CT) def. Lester (SB) 6-4, 7-5;
 Swain (SB) def. Blanchard (CT) 6-4, 6-4;
 Cory (SB) def. Baier (CT) 6-4, 6-3;
 Lee (SB) def. Ed Welch (CT) 6-1, 6-1;
 Funai (SB) def. LaFleur (CT) 3-6, 6-0, 6-3.

Poets on Deck

Although the results of these matches were far from successful, they did point out a great many faults in the various players' games. Coach Lamb plans to remedy these this week so the team will be in top shape for the conference race opener against Whittier on Saturday.

A word of congratulation is in order for Jack Poindexter who was elected captain by the members of the tennis squad.

Tech Trackmen Win From LA State, Poly

Beavers Shine In Initial Meet; Strong In Both Track and Field

Caltech's first intercollegiate track meet saw us successfully take over Cal Poly of San Dimas and Los Angeles State at Tournament Park. LA State gave us a fairly rough time but by the time all the tapes were all broken, Tech had gathered 89 points to LA State's 66½ and Cal Poly's 8½.

As a prelude to the All Conference Relays to be run at Oxy this Saturday, the meet provided an excellent test of our strength.

Frosh Sports Roundup

by Perry Vartanian

The Frosh dropped their first meet of the season last Saturday to a Citrus JC squad by a 43-87 margin.

Jim Kliegel led the squad by taking two of the five blue ribbons won by Tech, in the two hurdles events. Jim breezed over the obstacles with a 10.2 performance in the 70-yard highs and a 14.7 in the 120-yard lows. Dave Stevens, fresh from basketball, took a first in the mile event with a 5:26.0 time. John Winslow took honors in the high jump event with a 5-foot 4-inch leap. Final first place winner was Al Johnson in the 880 run. His time was 2:06.6.

Runner-ups

Jim LaTourrette, Al Teague, Ed Stofel and Pat Fazio took seconds in the 440, 880, two-mile and the broad jump respectively. Thirds were taken by Carl Rambo, Al Teague, Bill Blodgett and Bob Kubik in the mile, shotput, two-mile and discus. Pat Fazio took a third in both sprints.

Baseball

Tomorrow afternoon the Frosh diamondmen will make their debut against a Los Angeles Pacific College nine. It should be a pretty good game and as a first game of the season, let's get out and give the team a boost.

Baseballers Drop To Muir and PCC

This year's ensemble of Beaver baseballers made an unimpressive, yet nonetheless significant debut last week while losing to PCC by a score of 5-3 Wednesday, and to Muir by a 9-6 count on Saturday.

Pitching

In both encounters, good Tech pitching was offset by opportune Tech errors at most inopportune moments, and by an inordinate number of base-stranded Beavers: In the Muir game, 14

(Continued on Page 4)

For a while it almost appeared as if we had met our match, but when the individual results were tabulated, our margin was significant.

Waid High

High scorer with 15 points was Bob Waid of Caltech, who placed first in both the high and broad jumps and took second in the low hurdles and third in the highs. Dwight Schroeder of Tech and Williams of LA State each scored 13 points to be the runner-ups.

Marks Good

Other good marks turned in for the locals were Bob Parnes' first in the half mile, Pete Mason's first in the mile and two mile events, and Hal Tyson's first in the shot and second in the discus. Hal made a beautiful 133 foot throw in the discus, incidentally, but just couldn't reach Davis of LA State at 134 feet, 6¼ inches. Art Miller came through with about 132 feet on his last heave to score as a very strong third. John Nobles did a good job on the javelin.

EXCUSE, PLEASE!

We failed to mention Martin Waid in last week's track story as the one to break the inter-class pole vault record. Congratulations are in order for Waid in his 12-ft. 11¼-in. vault.

Results of the meet are as follows:

- 100 yd. dash: Williams (LAS), Schroeder (CT), Lieber (LAS), Wax (CP). Time: 10.1s.
- 220 yd. dash: Williams (LAS), Schroeder (CT), O'Rourke (LAS), Swinburn (LAS). Time: 22.3s.
- 440: O'Rourke (LAS), Swinburn (LAS), White (CP), Edwards (CT). Time: 51.5s.
- 880: Parnes (CT), Cooksey (LAS), Avert (LAS), Rieff (LAS). Time: 2:04.1.
- Mile: Mason (CT), Pilkington (CT), Hart (LAS), Smyth (CT). Time: 4:36.3.
- 2 Mile: Mason (CT), Hart (LAS), Pilkington (CT), Cobb (CT). Time: 10:10.7.
- 120 HH: Barber (LAS), Irwin (CT), Waid (CT), Stanaway (CT). Time: 16.1s.
- 220 LH: Schroeder (CT), Waid (CT), Barber (LAS), Hines (LAS). Time: 25.4s.
- Mile Relay: (LAS), (CT), (CP). Time: 3:32.5.
- Hi Jump: Waid (CT), Four way tie: Soule (CT), Masberger (CP), Ritzlin (LAS), Gregson (LAS). Height: 5' 9".
- Broad Jump: Waid (CT), Williams (LAS), Schroeder (CT), O'Rourke (LAS). Distance: 21' 1".
- Pole Vault: Waid (CT), Dragson (LAS), Riggs (CT), Tautz (CT), Richardson (LAS) tie. Height: 12' 6".
- Shot Put: Tyson (CT), Davis (LAS), Miller (CT), Woody (CT). Distance: 47' 6".
- Discus: Davis (LAS), Tyson (CT), Miller (CT), Nelson (LAS). Distance: 134' 6¼".
- Javelin: Nobles (CT), Middlebrook (CT), Riley (CP), Woody (CT). Distance: 158' 5½".

At A Glance

- BASEBALL**—
 PCC, 5; Caltech, 3.
 Muir, 9; Caltech, 6.
- TRACK**—
 Caltech, 89; L.A. State, 66½; Cal Poly, 8½; Citrus JC, 87; Caltech Frosh, 43.
- TENNIS**—
 Santa Barbara, 7; Caltech, 2.
 PCC, 7; Caltech, 2.
 LACC, 7; Caltech, 2.
- INTERHOUSE SKIING**—
 1st, Dabney; 2nd, Ricketts; 3rd, Fleming.
- INTERHOUSE TENNIS**—
 Blacker Won 4 Lost 0
 Fleming Won 3 Lost 1



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(Continued from Page 1)

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BASEBALLERS

(Continued from Page 3)

Tech runners died on base. The significance of these games lies in their establishing a tentative first string for this season's edition of Preisler's progeny. The pitching staff will consist of Juniors Daily and Stallkamp; and Sophomores Gray, Deane Smith, and Snider, from last year's Frosh. Norm Gray will probably handle the bulk of conference pitching assignments. Walt Pfeiffer will be the other half of the battery; and the infield will see either Dave Koons or Duane Neverman at first, Hambones Clark or Don Baker at second, Lou Stallkamp at short, and Babe Karasawa at third.

The official fly-shaggers will be Jack Smith, Bill Wise, and Koons, Neverman, Kam, McCourt and Deane Smith.

With a little more spirit, drive, and practice in making errors at less crucial moments, Caltech should field a hustling outfit which should be something more than just a representative gathering of Institute manhood.

FOWL SOCIAL ORDER

(Continued from Page 1)

is given some male sex hormones in a crystal placed just under the skin, it affects the entire body system of the chicken. In a few days the previously cackling hen is found crowing

"ATOMIC EXAMS"

(Continued from Page 1)

this final mission of peace is not graced with success then we shall once again be plunged into the dark'ning abyss of examinations. We shall then fight them on the streets. We shall fight them on the beachheads. Again and again and again I shall have nothing to offer you but blood, sweat, and tears. Let us not deceive ourselves. We stand at the brink of world peace or world destruction."

Komm, Suss Tod!

His Lordship's eyes rose upward above the multitude, the hand grasped, outstretched, and the morning sun's first rays burst suddenly upon his forehead. The locks prematurely greyed, glistened now in its light like an encircling band of fire. Below, the throng depreated silently, doomed, eyes downward. They realized it was THE END!

TRACK REVIEW

(Continued from Page 3)

down, Dick Smythe and Pete Mason. Mason has done 4:36.3, while Pilkington has done 4:50. Principal competition is, of course, the above-mentioned J. Barnes, who ran the mile in 4:19 in the SC meet. Sob! Caltech record time is 4:26.6, while former Conference record is 4:19.4.

Two-Mile — About the same men will be running this event, boosted by the addition of Rapid Robert Cobb. Best time for Caltech this year is Mason's 10:06.7, while Pilkington holds down 10:50. Caltech record is 9:52.8. Competition can be expected from the cross-country standouts. Stokes of Pomona, Creacy of Redlands and Straw of Oxy should make things interesting.

like a rooster, her features and posture change from that of a hen to that of a rooster, and she begins to waltz. Waltzing is a name given to the characteristic action of a rooster when he lower a wing and runs in a circle around the hen. Another problem Dr. Douglas is trying to solve is the relation between the

sex hormones and the individual behavior of the chicken.

Psychology

It can be easily realized how the outcome of these experiments being carried out by Dr. Douglas may affect and channel many lines of thought in psychology, although she is not primarily in-

terested in these effects. The work now being done is simply basic, and the results may be used by psychologists if desired. After attending Cornell University, Columbia, and the University of Chicago for her three degrees in zoology, Dr. Douglas is now here at Caltech doing the

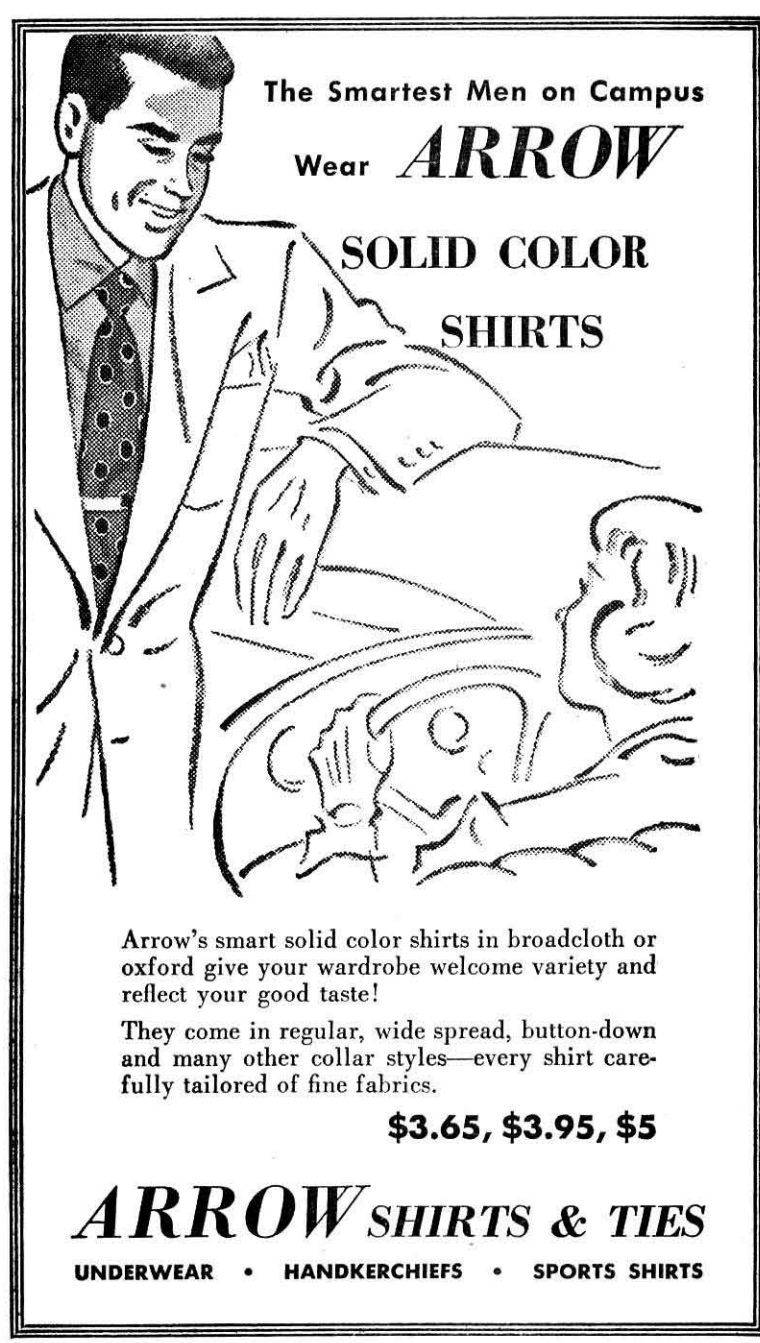
work described above. Besides being one of the most interesting problems I have heard of here at Tech, this very new field offers an entirely different approach to the problem of explaining and understanding the fundamental motives in man's behavior.



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