

SEE THE
'PINK ELEPHANT'
TOMORROW

CALIFORNIA TECH

HAVE YOU
VOTED YET
?

California Institute of Technology

Thursday, May 11, 1950

Volume LI.

No. 27

'Pink Elephant' Visits Tomorrow

Spicy Whittier Exchange Assembly Will Surprise Culbertson Audience

Culbertson Hall will be transformed into a night club tomorrow at 11:00 when Whittier College will present its Exchange Assembly, "The Pink Elephant."

The audience, after it has entered into this atmosphere, will be entertained by a variety of "floor show" acts featuring Whittier talent. The program centers around the conversation of a henpecked husband and his wife who have visited the night club.

Torch Singer!

They talk about the predicaments in which they find themselves, providing continuity between the acts which will feature a seven piece combo, a night club singer, a samba dance team, a quartet, a Harlem Chorus Line, and a Torch Singer.

Jerry Culp, who has proved his ability as a master of ceremonies in previous Whittier shows, will MC the program.

Elaborate Scenery

Jerry and his stage manager met with Frank Ludwig, Rally Commissioner, last Saturday to make final arrangements for the elaborate scenery, sound, and lighting effects which are reputed to really highlight the show.

This exchange assembly has been put on before other Conference Schools and has been highly recommended by persons who have seen these showings.

Lookee Here!



From Whittier--Pink Elephants and a torch singer.

Stanford Dean Y Dinner Guest

Stanford's Dean of Faculty, Dr. Clarence H. Faust, will be the speaker at the annual Y.M.C.A. dinner to be held in the Athenaeum at 6:30 p.m. Thursday, May 18. According to Dave Mackenzie, the toastmaster for the dinner, Dr. Faust will speak on "The Interrelationships of Religion and Higher Education."

All Caltech students invited by the Y to attend the dinner, and parents of the students and friends of the Y are also welcomed. The purpose of the dinner is to enable the members of the Y to meet the off-campus friends of the Y and to acquaint these friends of the Y with the achievements of the organization during the past year.

Officers Introduced

At the dinner there will be, moreover, some description of the activities of the Y for next year, and the incoming officers will be introduced formally to the friends of the Y.

The dinner has been planned by a committee headed by Dave Mackenzie and consisting of Bill Cox, Dan Markoff and Ralph Stone.

At last year's dinner there were over 200 people, requiring the main dining room of the Athenaeum to accommodate the group.

Mead Will Address Seminar on Organs

Next week's guest speaker at the Tuesday Sound Seminar will be Prof. Hunter Mead, distinguished American organ builder. This nationally renowned engineer will speak on "The Pipe Organ and Tonal Design."

As usual, the meeting will be in 201 Bridge, at 4 p.m. All musicians and embryo sound engineers are invited.

Campus Calendar

- THURSDAY, MAY 11**
12:00 Y Upperclass Luncheon Club
12:10 Throop Club Meeting
7:15 Board of Directors Meeting in Lower Fleming
7:30 Dancing Class in Culbertson
- FRIDAY, MAY 12**
11:00 Whittier Assembly in Culbertson
8:30 Ricketts-Dabney Barn Dance at Mountain Oaks
- SATURDAY, MAY 13**
1:30 Conference Swimming Meet at Oxy
2:30 Baseball Game with La Verne
9:00 Blacker Spring Formal
- MONDAY, MAY 15**
7:15 Channing Club, Y Lounge
- TUESDAY, MAY 16**
12:00 Y Fresh Lunch Club
- WEDNESDAY, MAY 17**
7:30 Orchestra Rehearsal in Culbertson

Pre-register Next Week

ATTENTION STUDENTS

Pre-registration for next year will be from May 15 to May 19, 1950. The following changes in procedure have been found necessary since each individual student has been assigned an advisor.

1950-1951 Sophomores

Current Freshmen who will be Sophomores in September should contact their section leaders for their first term pre-registration cards. Each student must have this card signed by his advisor and then the student return pre-registration card to room 119A-Throop immediately.

There each student will be assigned to a section. This same pre-registration card must again be picked up by the student in room 119A-Throop between the dates of May 15 and May 19. Student will then fill in his first term program and leave card with the clerk in 119A-Throop.

1950-1951 Juniors and Seniors

All Juniors and Seniors have been assigned to sections and advisors. Students are requested to pick up their pre-registration card between the dates of May 15 and May 19. After student has filled in his first term program he must have card signed by the advisor to whom he has been assigned. Student must return card to 119A-Throop before May 19.

Caltech Clues 5-College Crowd On Local Smog Subterfuges

"... And in Pasadena you can enjoy free year-round dare-devil auto racing on the Arroyo Seco Freeway..." was the concluding argument for attending Caltech, according to the Beaver skit at the five-school play last Saturday night at Pomona.

In a "15-minute skit" which had the audience rolling in the aisles for over a half-hour, the Techsters presented a parody on life at Caltech, specifically emphasizing Pasadena's famous tourist attraction, the smog, and the "vanishing San Gabriel Mountains."

Freud Again?

A guest psychologist appeared on the show to reveal the serious Freudian implications that may result from going to a school which loses all its football games, and he advised everyone to go to Notre Dame.

A quartet of Bruce Hedrick, Don Shepard, Tom Coons and Fred Wood made the show seem more realistic with their singing commercials for "Nacl—use it for anything you would normally use salt for," accompanied by "Tireless Pete" Verdier's ivory tickling.

Although references to that that bountiful vegetation known

Six Men Awarded Jet Fellowships For Graduate Work

Six graduate fellowships to the Jet Propulsion Center at Caltech for next year have been awarded, according to Dr. Du-Bridge, Caltech president, and Harry F. Guggenheim, president of the Guggenheim Foundation, which runs the Center. The fellowships will go to Thomas C. Adamson, Jr., a graduate of Purdue; Eldon L. Knuth, also from Purdue; Robert V. Meghreblian, who has previously worked at the Caltech Jet Lab; Joseph E. Padgett, Jr., from Johns Hopkins; David E. Shoner and Edward E. Zuboski, who is presently attending Harvard.

The Jet Propulsion Center at Caltech is one of two in the country established by the Guggenheim Foundation, the other one being at Princeton.

Last year only three Jet fellowships were awarded at the Caltech center.

Three Classes Will Elect Officers For '50-'51 Today

Conger Prize Goes to Stone

Because prize-winner Ralph Stone is a sparkling speaker (and because Mona Freeman is a beautiful young Hollywood starlet), the beginning of Ralph's speech was nearly ruined by the appearance of large throngs of eager students in Culbertson last Friday instead of the knot of eight or ten intellectuals that Ralph had anticipated.

Ralph Surprised

From the two previous contests that Ralph had entered he had concluded that most students aren't interested in peace, and accordingly developed the start of his speech along this line.

Nevertheless Ralph managed to recover his equilibrium long enough to carry off first prize of \$50 and "the hand that shook 'her' hand."

Novice Takes 2nd

Experience may be the best of teachers but second prize went to novice Swaroop Bhanj Deo who spoke on world peace in general. The experience was all new to Swaroop, but none in the (Continued on Page 4)

John Fee and Noel Reed Candidates For Next Year's Senior President

Elections to determine next year's officers of the senior, junior, and sophomore classes will be held today. Be sure to vote at one of the polling places listed below.

Dave Elliot Wins McKinney Essay Contest

This year's Mary A. Earl McKinney prize contest in English was won last Thursday by Dave Elliott, a Junior, majoring in Physics.

The topic for this year was "What Price Civilization?"

About his own essay Dave had little to say, other than that his conclusion was that "insecurity, danger, and an uncertain future are the price of civilization."

He added that his conclusion is "preceded by about 1200 ill-chosen words."

However, the committee of judges, Prof. Charles E. Bures, Prof. Lester C. McCrey and Mr. Charles M. Stearns, decided that those "ill-chosen words" were well worth the \$75 and copy of Webster's Biographical Dictionary which Dave won.

In coming to his conclusion Dave pointed out the growing feeling of insecurity as civilization becomes more complex. He added that there is real security only in statism, where no individual thought or expression is allowed. But "when statism succeeds in freezing a man's life into a secure and predictable pattern... civilization is destroyed," because civilization "is the increasing freedom of a man's spirit from the limitations of his body as he extends his power over nature."

Second Prize to Ibers

Of the three remaining finalists, James A. Ibers, Arthur R. Cuse and James A. Enslow, it was James Ibers who won the second prize of \$50 and a copy of Bartlett's Familiar Quotations. A copy of Bartlett's Familiar Quotations will be awarded to each of the other two finalists.

The purpose of the contest, open to Juniors and Seniors, is to cultivate proficiency in English.

Scientist Relaxes: Bonner Relates Alpine Adventure

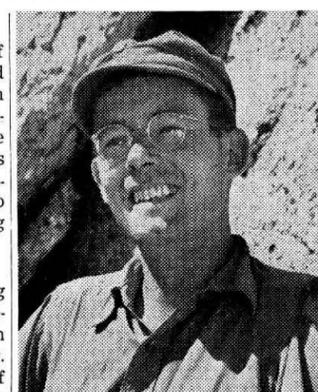
By Bob Stanaway

Most of us have heard tales of the daring adventures to be had in the alpine sport of mountain climbing, but few have ever attempted the conquest of the mountain. Here on the campus at Tech, is a man, Dr. James Bonner, plant physiologist, who holds this pastime first among the activities he enjoys.

Innate Desire to Climb

One might wonder, realizing its danger, how anyone could become truly attached to such an activity. In the words of Dr. Bonner, "In the mountains of Utah where I grew up, I did a lot of skiing and climbing, and it is a good life. I cannot rationally explain my desire to climb mountains. To try to explain to one who hasn't this inward drive to climb is impossible, but if one has it, there is a great deal of pleasure derived in looking at a seemingly inaccessible peak, then climbing and reaching the top. It's just something that grew up with me and I cannot live without it." This certainly portrays the true spirit of the mountaineer.

Dr. Bonner and his wife have done a great deal of climbing and she is also a real mountaineer. However, being the mother



"I'd climb the highest mountain"—Bonner.

of two children has somewhat curtailed her activities along this line.

Activities Worldwide

Having climbed in Switzerland, Australia, New Zealand, the Rockies, the Sierras and Mexico, Dr. Bonner says "Whenever there is a mountain handy, I climb it." Week end trips on skis to the mountains all winter provide relaxation from his work. Dr. Bonner is also a member of the Mt. Waterman ski patrol.

I asked him how one could (Continued on Page 4)

Polling Places

Polls for class elections will be open today in East Bridge, 11:00-1:00, Dabney Hall, 11:00-4:00, and the House Patios, 12:30-1:00.

Senior Nominees

Candidates for senior class officers are: for president, John Fee and Noel Reed; for vice-president, Ray Greutert and Steve Pardee; for secretary, Bob Cobb and Tony Malanoski; for treasurer, Charles Bates, Art Cuse, and Bob Munro; for athletic manager, Pete Mason and Art Wennstrom, and for Board of Control members, Leo Baggerly, Frank Bumb, Dallas Peck, and Neal Pings.

Junior Aspirants

The following are running for junior class officers: for president, Dick Jones, Frank Lang, and Bert Snider; for vice-president, Babe Karasawa; for secretary, Barclay Kamb; for treasurer, Gil Kitchings and Ed Schlinger, for athletic manager, Dick Brown, Norm Gray, and Don Lamar; and for board of control members, Dick Fuller, Alan Marshall, John McCourt, Henry Richter, and Ron Shreve.

Sophomore Candidates

Nominees for sophomore officers are: for president, Tom Janssens, Jim LaTourrette, and Leon Vickman; for vice-president, Lyle Hoag and Dave Stevens; for secretary-treasurer, Bill McCormick and Angel Ottati; for athletic manager, John Gee and Alan Teague; and for board of control members, Bill Blodgett, Jim Kliegel, R. A. Knapp, Mike Lourie, Gil Peppin, Carl Rambo, Jerry Ross, and Ed Stofel.

Interview Schedule

May 15—SANDIA CORPORATION, Albuquerque, New Mexico. Mr. Everett F. Cox, Manager Weapons Effect Department. Interviewer: The Research Organization of the corporation is interested in interviewing PhD candidates in Structural Analysis, Physics (theoretical and experimental, but not particularly nuclear) and Statisticians with considerable background in Physics. Will also talk with men who are working toward the PhD degree but will not be finished until June of 1951.

FULL TIME JOB OPENINGS FOR JUNE GRADS

- Additional 8 May 1950
33. Civil Engineering graduates interested in oil field work. Immediate work will be mostly in field and surveying property lines, making well and road locations. Ventura, California.
 34. Mechanical, Civil, Electrical, and Chemical Engineers with business administration and accounting majors and/or statistics with liking for the kind of calculation encountered in insurance companies. The company is an industrial fire insurance company and casualty insurance company of moderate size. Salary scale is average, benefits more liberal than average. New York, N. Y.
 35. (a) Mechanical or Electrical Engineers for Glass Forming Machine, Heat Treating and Finishing Equipment assignments. BS degree required.
 - (b) Engineers (preferably Chemical) for Glass Melting Operations and Chemical Engineering and Development. BS degree required.
 - (c) Engineer or Ceramist to perform refractory research, considerable petrographic work being involved. BS or advanced degree required.
 - (d) Electrical Engineers for equipment, instrumentation and miscellaneous production applications. BS degree required.
 - (e) Engineering Physicist or Physicist for Statistical Quality Control assignments. BS degree required.
 - (f) Glass Technologist to understudy and assist head of Glass Melting Operations department. Must be highly qualified man with experience in the glass or ceramic industry. BS or advanced degree required.
 - (g) One PhD Physicist and one BS Engineering Physicist for miscellaneous projects in process research. PhD and BS Physicists for research.
 - (i) PhD Physicist with 5-10 years teaching experience for product and process development.
 - (j) One BS or MS Inorganic or Physical Chemist for research.
 - (k) One BS Chemist for glass batch analysis.
 - (l) Junior Sales Engineer for Railroad and Marine Sales department. BS Electrical Engineering and training in Corning, N. Y. Preferably BS Electrical Engineer or Physicist.
 - (m) Junior Sales Engineer for sales of Bulb and Tubing, Lighting and Plant Production engineering background desirable. Engineering degree required.
 - (n) Junior Sales Engineer for sales of Plant Equipment products. Chicago location after training in Corning, N. Y. Chemical or Mechanical Engineering degree required.
 - (o) Production Control staff planning assistant. Experience or training in production planning desired. Business Administration degree required.
- Openings No. 35 a-p located in New York.

... Where Credit is Due

No Beaks here—to give credit where credit is due, might be refreshing for once. Such credit, and a very large measure of it, should go to Frank Ludwig, ASCIT Rally Commissioner, and his Assembly Chairman, Phil Orville, for providing a weekly series of unusually entertaining, educational, and interesting assemblies this term.

But habit, and I hope it's habit and not ignorance, is a strong thing, and the average, or perhaps I should say sub-average Tech man is used to not going to Friday assemblies.

Things are picking up though, and more and more people are beginning to realize that during that assembly hour in Culbertson, an hour of entertainment, laughter, songs, or non-academic education is being offered them.

As proof, not positive, but pretty indicative, we might cite such past assemblies as the **Center Staging** by P.C.C. (drama), the well-baited **Conger Peace Prize** orations, or the unexpectedly interesting **Mayan Film** assembly (culture), the **Melody Maids** (music), and tomorrow, last, and certainly not least, **The Pink Elephant** (comedy, music, dancing, and drama), to show that praise of Frank's work is well deserved.

An even better expression of appreciation for a hard job well done would be for each of us to attend tomorrow's assembly. It'll be fun, too. See you tomorrow in Culbertson!

ON THE RECORD

By Bill Whitney

"How good is an orchestra?" is a question which can, for practical purposes, be answered only by comparing one orchestra with another. Fortunate ticket-holders to the two concerts given by Arturo Toscanini and the N.B.C. Symphony Orchestra at the Pasadena Civic Auditorium last Wednesday and Thursday heard one of the few orchestras which could safely be used as a basic standard of comparison.

There is no question that the N.B.C. Symphony is good; that point must have been conceded by anyone who heard any of last week's concerts, and must certainly have been already recognized by those who have been regular listeners to the N.B.C. broadcasts, or who hound the record shops.

Nevertheless, hearing the orchestra in the flesh is an experience which cannot be completely realized through the medium of the radio or the phonograph.

Suffice it to say that it is pleasurable to hear a live string section play so much as a unit that it sounds like a single instrument, or to hear the horn section play so much as a unit that to clench his fists, grit his teeth, and hope for the best) play all the right notes at the right times, and with delicacy!

Only when the problem of intonation has been successfully overcome can anything approaching faithful interpretation be reached. It is usually only by orchestras like the N.B.C. Symphony, where a large enough aggregate of competent musicians is available that musical performance can be heard which goes beyond the norm of capable mediocrity.

If such a group of artists is then put under the control of such a forceful personality and discerning musical insight as possessed by Toscanini, a worthwhile result might almost be anticipated.

Unfortunately, many of those people who heard the concerts came away either with the feeling of having been let down, or else they were trying to convince themselves, dutifully, that they had heard something great.



"He's a great one for blowing his top when I forget the Angostura" in his Manhattans."

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Their reaction was probably due, understandably, to the effervescent, eulogistic publicity which precedes Toscanini wherever he goes, and to the deference which is paid to him, almost religiously, as a person.

A perpetuation of the reputation of excellence cannot last forever, however, unless there is actually something there to justify the reputation. Toscanini and the N.B.C. Symphony have in the past and present exhibited both consistency and integrity in their interpretations. The fame which accompanies them, although it may often manifest itself as hero worship as an end in itself, is therefore probably merited fame.

A concert by Toscanini does not imply by definition, however, that one is to be swept away by the advertised transcendent abilities of one particular conductor.

It means instead that one can expect to hear a performance which is as nearly flawless technically as could be achieved by any similar group; which recreates faithfully the intentions of the composer, and which sometimes, perhaps, reaches those intangible, indefinable heights described as greatness.

That the two performances in Pasadena were great ones is doubtful. That, however, they modeled a level of excellence seldom attained so consistently by other groups of musicians is hardly to be denied by anyone who heard them. But we doubt that real greatness is an everyday proposition, even for Toscanini.

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CAMPUS BREWINS

"I saw him even now going the way of all flesh."—Webster.

The Beak climbed slowly out of his sack Monday morning and surveyed the past weekend, wiser because of it. He had seen Friday, Saturday, and Sunday go by, but as yet had profited through his ventures beyond this great institution of higher learning. Alas, there are those who wouldn't profit; and upon thinking of them, the Beak wept quietly.

Then a marvelous thing happened. A vision came into his mind. The Beak noted a Garden of Eden—a white-walled paradise, truly a place of virtue, peace, and quiet; a haven, isolated from the storm, turmoil, and actualities of life. Oh, if there existed a place like this in Pasadena!

The Beak began drying his eyes and the picture expanded, revealing a beautiful place, a harbor in the storm of life, the anchor for a drifting spirit. Yes, this was the place. Smiling reflectively, the Beak recalled the beautiful gardens; the spacious, rambling, white buildings; the swimming pool; and the beautiful women who stood as statues of cold, white marble before the Beak. Nevertheless, the Beak sat down with a large glass of orange juice, rejecting this vision of quietness and goodness, and proceeded to reflect upon the happenings of the past week.

Swimming Pool

The Beak awarded the Peabody Medal with figleaf clusters to Fleming for their civic

interest in supplying the resident Titans (and Bulman) with the Student Houses' first swimming pool. After keeping water running all night into a misshapen canvas bag, Weissmuller Pauling inaugurated this new form of debauchery by diving off a two-inch ladder, and earnestly paddled in endless ellipses. Sparsely clad Lemmings were thereafter seen sloshing about in playful sophistication. The revelry was abruptly terminated by the gods when a leak developed and 3000 gallons roared down the courtyard drain.

More than one-half of the listless seniors spent Ditch Day in the library snaking while their more imaginative confreres betook themselves to Neptune's trysting place. The award of the daylight hours went to Alan Beek for his performance. He piloted his flimsy craft off shore of Little Corona and left its crew wildly riding the breakers twixt rocks and seaweed while he braved the icy Pacific to greet the faithful on the beach. Only on the way back did Beek notice the bottom part of the mast of his surf-board-sized sailboat did not form a linear continuation of the top part. Unfortunately he made it around the breakwater and out of sight of the senior class before the mast parted company with the rest of the boat.

Elks and Stags

Boicourt worked out a program with meticulous care. Many dates and wives showed (Continued on Page 4)

THE SQUARES' CIRCLE

On the recent Senior Ditch Day, there was a series of pranks played about the Student Houses, of which deflating the tires of automobiles and the stripping or "stacking" of rooms were typical. The extent of these extreme incidents merits an examination of the philosophy behind the actions of Senior Ditch Day.

Ditch Day, as the custom has been practiced for the past several years, has been just a day when the seniors collectively cut their classes, went off to the beach, and had an enjoyable day free from scholastic worries.

For the ditching to be effective, it is necessary to have unanimous participation. The junior class has, in the past, assumed the responsibility of harassing those recalcitrant seniors who did not leave campus on Ditch Day, and thereby has been helping out, in a disciplinary manner, the senior class. Occasionally there were small, isolated stackings of the rooms of

those persons who appeared to have invited such actions.

This year there has been a new interpretation of the spirit of this traditional day. Apparently the senior class was so successful in getting full participation in Ditch Day that some of the juniors, lacking any seniors on the campus to harass, pursued what seems to be an illogical alternative; that of harassing many of the seniors in the houses who had left campus. Thus there was in effect a complete reversal, with the juniors working against, rather than for, the seniors.

Consequences of this policy, if pursued in the future, will be that seniors will no longer relish having a Ditch Day, for no one looks forward to returning from a Barn Dance in the small hours of the morning only to find his bed missing, and perhaps his furnishings or belongs, too. It is conceivable that the tradition of Ditch Day might even be abandoned.

In addition to juniors, I have been informed that many freshmen and sophomores participated in this year's activities. These

Does This Nut Fit Your Bolt?

by the Monkey Wrench

Where the last few days have gone (since we turned in last week's copy), we have not been able to decide. By some means, though, we were able to remember a conversation we had with a Tech graduate of 20 years ago which we think bears repeating here.

All except the worst snakes know that a great deal of grumbling has been going on a Tech for the last two of three years. We can well remember the conviction of the Army that a gripping outfit is a healthy outfit—get scared when nobody says anything.

Perhaps that is the rule to follow here but, then, maybe something can come from all of this talk. We realize that there has been much in the way of constructive criticism. Several very important moves have been made in the way of choosing instructors and giving more guidance to students as a result of this criticism, most of which started as plain old griping.

Few Do Anything

But the number of men making an earnest inquiry has been small and in their wake has come even more griping. Perhaps we should also look at ourselves.

The man referred to above was a math major and has been teaching ever since he graduated. One of us knows Mr. Booth well, having attended the school at which he teaches. We told him about all the gripes more to make conversation than anything else and got a lecture which most of us can probably stand hearing.

In short, Mr. Booth did not believe that there is any reason to think that the Institute has changed in educational policy since he was here. If any mis-

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understandings have arisen between the faculty and students, it is probably the students who have caused it. The interesting thing about these statements is that they were not made after a study of Tech. Mr. Booth made them on the basis of observing the changes in his students in the last 20 years. To put it mildly, he is not happy about what seems to be happening.

Gimme!

He sees a very obvious rise of the gimme attitude. It is not a matter of accepting some crackpot's welfare state with its resulting barrage of gimmes. Rather, the situation is one in which the basic philosophy of the country is changing with the crackpots just putting forth the sentiments of that philosophy.

We put several questions to Mr. Booth. Doesn't the Institute require so much time spent working problems and hitting the books just to pass tests that there isn't any time in which to really learn something? Why is the Institute so vague about its aims and the methods used to reach them? Doesn't the In- (Continued on Page 4)

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Tech Netters Drop Pair To Sagehens, Loyola

The Tournament Park Courts saw the Tech racquetmen bow to two foes last week. Each match was lost by the score of 7 to 2. In each match we managed to capture one singles and one doubles. Friday, against a very experienced Loyola team, Jim LaFleur, playing sixth singles, defeated Pennario, 1-6, 6-1, 6-4. Captain Poindexter and Ed Welch won their second doubles match against Schoenbaum and Deihl by the score 6-4, 4-6, 6-0. The other results are as follows:

Molieri (L) def. Martin, 6-1, 6-1; Van Slooten (L) def. Blanchard, 6-3, 7-5; Schoenbaum (L) def. Poindexter, 6-2, 6-1; Deihl (L) def. Berk Welch, 6-2, 6-3; Ciarfeo (L) def. Ed Welch, 6-2, 6-0; La Fleur (CT) def. Pennario, 1-6, 6-1, 6-4; Molieri-Van Slooten (L) def. Martin-Blanchard, 6-1, 6-1; Poindexter-Ed Welch (CT) def. Schoenbaum-Deihl, 6-4, 4-6, 6-0; Ciarfeo-Pennario (L) def. Berk Welch-Hyman, 6-3, 3-6, 8-6.

Sagehens Win

The next day the Techsters fell prey to the Sagehens. Berk Welch, in a long-drawn-out match, defeated Pomona's Linthicum, 7-5, 9-11, 6-1. Our other point came from the second doubles department, Poindexter and Ed Welch, who came from behind (5-1) in the third set to win their match, 4-6, 6-3, 7-5.

Individual results of the Pomona meet are as follows:

Baker (P) def. Blanchard, 6-1, 6-1; Nava (P) def. Martin, 6-4,

Dabney, Blacker Chess Meet Tied

Last week saw Dabney and Blacker chess players come to a hard-fought tie in the first inter-house chess tournament. Each house won five games in the series, which extended over a period of a week.

In the matches won by Blacker, Harrison def. Szabo, Einwohner def. Thomas, Rubenstein def. Blanchard, Brussolo def. Allison, Clark def. Brown. Dabney evened the score when Ham def. Sauers, La Fleur def. Mishaan, Brow def. Mitchell, Brewer def. Lunan, Chamer def. Bhanj Deo.

With the enthusiasm generated by the success of this tournament, the chess enthusiasts who participated have expressed the hope that players in all houses will join next year to have complete interhouse competition on the same organized basis.

For players who may feel that their game is too weak for competition, many of the men in the recent matches have offered advice and coaching in order to stimulate interest in the game for the coming year.

6-3; Biddle (P) def. Poindexter, 6-3, 6-3; Welsh (P) def. Baier (CT), 6-4, 7-5; B. Welch (CT) def. Linthicum, 7-5, 9-11, 6-1; Marea (P) def. La Fleur, 6-3, 6-4. (Continued on Page 4)

Beaver Sports

Poets Outhit Revay Shoots Tech; Win 8-4 Par Over Oxy

Caltech's baseball team played a good game last Saturday, but they lost to the league-leading Whittier team, 8-4. The Tech horsehiders collected only four runs on 11 hits, more than in any previous game. The reason that no more than four runs were scored is that the hits did not come at the right time. The Whittier team made eight runs on 17 hits.

Touch and Go

Caltech started out in the first inning with one run. From then on the game was one in which all of the breaks went the bad way. Tech was showing power at the plate but they could not come through when the big scoring opportunities came around. They were not able to score more than one run per inning. Every man on the team but one got at least one hit. The biggest stick was Babe Karasawa, who got two hits, one of which was a home run.

Victors Over Chapman

Last Tuesday the Varsity beat Chapman in a practice game, 3-2. Tech lead all of the way and most of the players played.

Last week saw the Caltech golf team in its busiest week since the beginning of the term. Friday afternoon the Engineers traveled to the Wilshire Country Club to take on the powerful Loyola Lions. On Saturday as the sun was just coming up the Beavers renewed their drive for top conference honors by taking on the Tigers from Occidental at Annandale Country Club.

The best the team could do was a split in the two meets. The Beavers dropped the first one to the Lions, 12½-5½, while smothering Oxy by the handy score of 14½-3¼. Loyola turned out to be too tough a nut to crack and the divot diggers had to be satisfied with their 5½ points.

Saturday morning was another day and another score. There was nothing stopping the G men as they rolled to their win. The outstanding achievement of the day was an even-par round for Ed (don't these shirts look terrible) Revay. Ed toured the Annandale course in an even 71, which is no small feat.

Bulldogs Defeated By Local Swimmers Occidental Tankmen Again Down Tech As Von Herzen Nears SCIC Record

By Jesse Weil

Mixed fortunes were again in order for the Engineer tank team as they topped the Bulldogs in their own pool last Friday, 32-23 but lost to Oxy 59-16 two days before.

The Redlands meet was another one of those close contests which was won in the final relay. Caltech switched its lineup somewhat in an attempt to work out a better combination of swimmers in the different events in preparation for the conference meet this Saturday.

Close to Record

Frosh Sports Roundup by Perry Vartanian

This week the Frosh won in baseball against Whittier, and lost in swimming and tennis to Oxy and Pomona.

The game against Whittier was a well-played and hard-fought one, ending in a 5-3 victory for the little Beavers. John Winslow was the winning pitcher, giving up 8 hits and 3 walks against 9 strikeouts. Six errors were chalked for the nine.

Terry Sanders and John Winslow each were credited with two hits. Doug Inglis and Carl Sauer got the remaining two. Caltech led all the way; but in the last inning the Poets scored two runs and had the bases loaded with two away when (Continued on Page 4)

Von Herzen, for the second time in a week, came within three seconds of the 200 yard breaststroke conference record with a time of 2:40.4. He also won the 50 yd. sprint in 25.7, although swimming the event for only the second time this year. That pride of Hawaii, Dick Libbey, tried his hand at the 220 free for a change, winning handily; while Houser barely nosed out the first Redlands man for a second place. Libbey's best performance, however, was in the 100 yd. free. 56.4 seconds was the time, breaking the school record of 56.7 set by him last year. But since there was only one watch on him, the new record must remain unofficial.

McCluskey Tried

The only notable thing in our ignominious loss to the Tigers was Von Herzen's win in the breaststroke. Jerry McCluskey of Oxy, who had already placed second to Dick once this year, tried to beat him at his own game; that is, swimming the major part of the race orthodox and finishing with a fast lap of butterfly. Everything looked fine for Jerry until the end, when he found himself too tired to go into the butterfly, so Von splashed merrily to a well-earned victory.

This afternoon the preliminaries for the conference meet are being held at Oxy, while the meet itself will be run off Saturday afternoon at the same place.

- Results:
- 300 yd. Medley Relay — Redlands (Blecker, Livingston, Holmes), 3:31.6.
 - 220 yd. Free—Libbey (C), Houser (C), Scott (R), 2:36.0.
 - 50 yd. Free—Von Herzen (C), Perry (R), Barmore (C), 25.7.
 - Diving—Yonkers (R), Pisto (R), Worrell (C).
 - 100 yd. Free—Libbey (C), Johannson (C), Holmes (R), 56.4.
 - 150 yd. Back—Blecker (R), Weil (C), Hall (C), 1:55.6.
 - 200 yd. Breast—Von Herzen (C), Livingston (R), Cox (R), 2:40.2.
 - 440 yd. Free—Scott (R), Houser (C), Luley (R), 5:55.5.
 - 400 yd. Relay—Caltech (Barmore, Johannson, Von Herzen, Libbey), 4:04.2.

Blacker Leads IH Volleyball Race

As the volleyball season got under way, Blacker took the lead, while Ricketts and Fleming tied for second, and Dabney and Throop brought up the rear.

A week ago Monday, the Rowdies took two straight from the Throopers; next Blacker tripped Dabney in two out of three games. Wednesday's game between Ricketts and the Big Red was called off because of Senior Ditch Day, and on Thursday Blacker took its second win by downing Throop in two straight. The Fleming spikers took a close 15-13 game from the Darbs to win last Monday's match.

Due to the fact that the Fleming-Ricketts game is yet to be played, it is impossible to say which one will be competing with Blacker for the volleyball title.

At A Glance

- SWIMMING—Caltech, 42; Redlands, 23. Occidental, 59; Caltech, 16. Oxy Frosh, 27; Caltech Frosh, 14.
- BASEBALL—Caltech, 5; Chapman, 3. Whittier, 8; Caltech, 4. Caltech Frosh, 5; Whittier Frosh, 3. Pepperdine, 2; Caltech Frosh, 0.
- GOLF—Caltech, 14½; Occidental, 3½. Loyola, 12½; Caltech, 5½.
- TENNIS—Pomona, 7; Caltech, 2. Loyola, 7; Caltech, 2.

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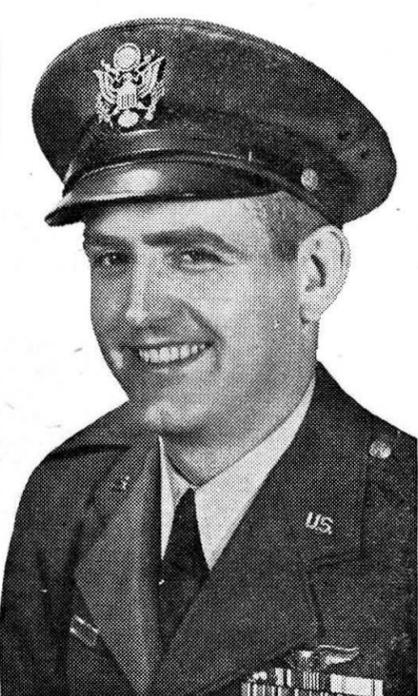
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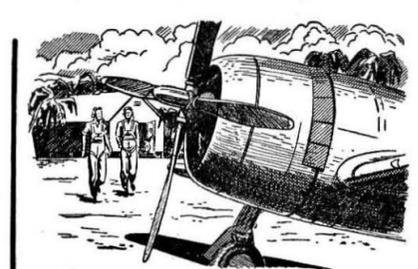
Major Nathan Adams, Auburn '40 Personnel Manager, U.S. Air Force



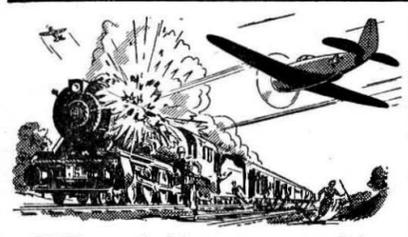
A top scholar and ROTC Honor Graduate, Cadet Lt. Col. Nathan Adams enjoyed his final military ball in 1940, soon left for Fort Sill's Field Artillery School.



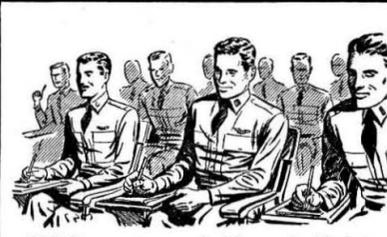
Following a three month course, Lt. Adams decided the Air Force was the place for him. He applied for pilot training, was accepted, proceeded to Maxwell Field.



He won his wings and reported to the 36th Fighter Group in Puerto Rico. The group soon returned to the States, giving Adams a chance to marry his college sweetheart.



Within months Adams was overseas, flying "rhubarbs" (missions against enemy transport). He flew 63 P-47 missions within seven months, returned to the States late in 1944 for rest and recuperation.



V-J Day came, and Adams decided to make the service a career. He chose personnel work as his career field, was assigned for training to the Adjutant General's School at Fort Oglethorpe, Georgia.



Now a regular Air Force Major, he heads a 32-man section at Bolling Air Force Base. He advises his Commanding Officer on selection, assignment and promotion of all officers and airmen in the command.



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HOUSE SOCIAL NEWS

Puddleless Pool Puzzles
Phlegming's Pete Pauling

Once again Fleming has proved its superity over the other houses. Fleming now has the only real, intended-for-swimming, swimming pool on campus. Or at least it did for one day.

Last week Peter Pauling led an expedition to his home to procure this bit of war surplus equipment. After setting it up, hoses were run all night in order to fill the 13-foot canvas cylinder to its maximum depth of four feet. The next day many Fleming mermen were seen cavorting in circles in the pool's blue waters on the student house Riviera (Fleming Court.)

Plug Needed

But alas, the Reds woke up next morning to find their pool without the fluid so necessary for its proper use. And so it has lain since, with a gaping gash in its finely-sewn seams, awaiting the longed-for CE crew with their marlin-spikes and waterproof goo to repair the fallen giant.

Fleming is hoping that they will enjoy some more use of their pool before the Building and Grounds Department finally manages to think up an excuse to condemn their lovely crystal plunge.

"Deity of Christ"
Fellowship Topic

A large part of our Western culture is based upon Christ's teachings. Next Tuesday and Thursday the Caltech Christian Fellowship will discuss biblical claims of His deity. The meetings are in 210 Dabney at 12:30 p.m.

DOES THIS NUT FIT

(Continued from Page 2)

stitute make it unduly difficult to get through an option by loading one down with subjects from other options? How can a student who has had no experience with the type of work and the atmosphere at Tech get properly oriented and get most out of the place if the Institute doesn't make an extended effort to help the student when he first comes here?

Student Committee

Some of these questions have been gone over by a student committee whose recommendations have been acted on by the faculty. Some results have come from the griping already. However, none of these questions drew any assent from Mr. Booth except the last one. That is a valid question in any situation where one finds himself in a new environment. The other questions were only answered with a question. Are all of the students here really after something or are some of us only willing to take what the Institute will give us?

Most of the students here can probably be excused from all this but there may be some who should answer these questions. Frankly, our red ears aren't entirely due to sunburn. We remember one of the deans saying we would not get an education at Tech but only the tools with which to get one later on, something to build on. Are some of us saying that we are simply too lazy to go and build something—just give us the real stuff, whatever it is, gimme?

Weak Points Exist

In an organization the size of Tech there are bound to be weak points which need to be improved. We are sure everyone realizes this, including the faculty. On the Institute seal is the slogan, "The Truth Shall Make You Free." Any of us is justified in asking if we are getting the truth. If the fact that the faculty has taken action on recommendations made by groups of students is any criterion, we may assume that errors have been acknowledged in the Institute system. But if something seems to be wrong and we feel that we are not getting the straight clue, who has jumped the track, the Institute or the students? And if the Institute has been mistaken on some points, does that excuse us? It takes two to make an argument and in this case we are the other party.

Blacker, Fleming, Throop
Join in Barn Dance Fun

Last Friday night saw Blacker, Fleming and Throop men and dates tripping around the stags at their combined barn dance. The affair was held at the Sunland Swim Park, and it was expected that at least one person could not resist the urge to take a dip in the vat-shaped pool.

At mid-evening the respective groups lined up for the customary beer-spilling contest; the results were uncontrollably indeterminate. Ricketts was declared unofficial winner.

This coming Saturday Blacker will hold its Spring Formal (praying for good weather) which, if like past years, should be "the" third term social event.

SCIENTIST RELAXES

(Continued from Page 1)

maintain such a vigorous interest in this sport when reading so frequently of deaths which occur as its result. To my surprise, I learned that there are not nearly so many people killed mountain climbing as ski jumping. This being of little consolation, Dr. Bonner proceeded to explain that when carried out in a sensible manner, following the established rules of safety, rock climbing is as safe as any other of life's activities. "The accidents occur," he explained, "when people try climbing who know nothing about it and consequently have no business trying."

The rock climbing associations of America investigate all the accidents which happen each year and last year only one death occurred from climbing under mountaineering conditions. This was the fault of a lightning storm which struck unexpectedly.

Modern Safety Techniques

I asked Dr. Bonner, "just what were the modern techniques which made mountain climbing safe or safer than it had been in the past?" There are certain practices which must be observed along lines of safety, and along with the help of nylon rope, the ice ax, and a small wedge used to drive into cracks in the rocks, one need never be injured.

The nylon rope is probably the biggest improvement in modern rock climbing techniques, due to its great strength and elastic properties. Where, in the past, a steel cable would tighten instantly at the end of a fall and tend to unseat the belayer, the nylon stretches about one-third its own length, bringing the falling person to a gradual stop. A belayer is the person who feeds out rope to the climber, being firmly fastened to both the other end of the rope and the perch on which he is sitting.

Close Call

Dr. Bonner tells of one experience he encountered while climbing near Angeles Crest on an 80 degree slip face more than 600 ft. high. He and his climbing associates were more than half way to the top and Dr. Bonner was climbing ahead in a chimney (narrow debris filled chasm) when suddenly the ground completely gave way under him and he fell freely for about 35 feet. His colleague, sitting on a ledge about ten inches wide, was fastened to the other end of the rope which was in turn fastened to the afore mentioned wedge in the rock.

At the end of the fall, the rope tightened and with the aid of the wedge (which bent under the shock) the belayer was able to hold his fall. If the belayer had fallen off the ledge they both would have probably fallen to the bottom, some three hundred feet below.

"I didn't even realize what happened," said Dr. Bonner, "it all happened so fast. We figure the whole incident lasted about 1 1/4 sec." One can see that his heart is truly in this sport for still he gets away every chance he has and goes climbing.

Alpine Pack Trips

In the winter Dr. Bonner takes pack trips on skis up in the mountains. When the climbing gets too rough for skis, they are left behind. Sleeping in the snow overnight, they trek on to the top of the most rugged peaks in the world. Yes, it is a good life. If one is so inspired, there are certainly many of the happiest hours of life to be had in the sport of the alpine.

Darbs and Rowdies to
Have '5-Kegger' Dance

Dabney and Ricketts are eyeing each other diagonally as they prepare for tomorrow night's Barn Dance. The program is headlighted by the Crew Race, dancing (of course), and all sorts of extra attractions. In addition to the Flamers there will be a not-fully-explained-yet Ratio Determination Contest that should spice up the evening a bit. The many peoples from both houses will no doubt make the party a cinch Five-Kegger.

THE SQUARES' CIRCLE

(Continued from Page 2)

men had no reason to be involved in the incidents, unless it was to take malicious advantage of the seniors' absence, as if in envy of a day of relaxation.

Room stackings, although inconvenient to the victims, have a place, and are not the point in issue; but there seems to be no reason that Senior Ditch Day and room stackings should occur together. I recommend a reversion to the traditional spirit of Senior Ditch Day.

FERNANDO J. CORBATO,
(Senior)

Tech Netters Drop Pair

(Continued from Page 3)

Kenyon-Welsh (P) def. Martin-Blanchard 4-6, 10-8, 6-1; Poindexter-E. Welch (CT) def. Biddle-Hatch, 4-6, 6-3, 7-5; Nava-Maree (P) def. Hyman-Butler, 6-1, 6-3.

Wednesday, the final match of the year will be held with Occidental. The next week-end, several Tech players will journey to Pomona for the Conference tournament.

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CAMPUS BREWINS

(Continued from Page 3)

up, somewhat dispelling the Elks stag atmosphere, albeit evincing hydrophobia. To offset this, the Senior Biologists showed up en masse, outdoing any other option. Following the day's miscarriage, a barn dance of gigantic proportions came to pass. The consequent bacchanales proved too much for Mike Hall, who ended the evening otherwise than he had planned. The Beak observed Quandt panting after Hall's diminutive date, obviously awed by her vivacity.

The Beak arrived at the Sunland Swim Park on Friday night together with representatives of Blacker, Fleming, Throop, Dabney and Ricketts. It was a steaming, four-keg success if quantity means anything at a Barn Dance. The majority of the Blacker crew team acted as bartenders for the affair, but they sampled too much of their wares, and went down to choking, foaming, possible defeat in the most confusing crew race in history. The six judges, whom Cuse thought he had bought off with six dates, came to a conclusion that everyone was disqualified; but to satisfy the howling masses, they voted Throop temporary victors over Blacker and Fleming.

Scott, outstanding Throop frosh, spent most of the evening telling everyone to stand still so that he could walk across the dance floor. The last two persons he told this to were Miller and "Judge" Bowen, who picked him up carefully and then heaved said Frosh into a pool the management had thoughtfully provided.

Costa Rica's contribution to Caltech, Bill Averre, combined quality and quantity in his post-dance comment on the F-B-T Barn, to which he came dateless. The reader is referred to bunkmate Ed Welch for further details.

Saturday the Beak ventured to the Five School Play. He walked into Big Bridges, sank into the

nth row, and watched the show go on. Scripps' total contribution to this great production was one girl; and the Beak felt sad, for he could not detect her from the Pomonans. But he felt that even with the Scripps girl and an Oxy M.C. the show was worth 50 cents.

The Beak then went into the small hamlet of Claremont, where he was loath to associate with the peasants of a men's college nearby, which, with Scripps, threw a carnival featuring a tired generator and a rat race with live rats. The Beak felt that truly Claremont was and is the site for a rat race. He smiled benevolently at children's indulgence in the adult sport of that fair town.

The Garden Party on Sunday saw little of excitement as it was broad daylight, and the faculty was present. However, the Beak, tasting the punch, noted Royce I, now almost sure of graduation, paying no heed to a staid society, but practicing holds on his dancing date worthy of a chiropractic college graduate.

The casual spirit also permeated Berner's suave, sophisticated manner. After spilling punch all over his date's new dress, a short time later he crashed through the dance floor and into the ground following a dexterous dance step.

And with this the Beak drank his orange juice and went back to the sack to sleep for another week.

CONGR PRIZE

(Continued from Page 1)

audience realized it, as he expressed his idea of a three year plan whereby Americans could go overseas and develop an understanding of other nations' youths by working hand in hand fighting nature.

Stan Groner expressed the need of world peace in his speech "Is There No Balm in Gilead?"; Tom Coons compared the U.S. with opportunist Russia—an opportunist being one who "finding himself in hot water—takes a bath"; and Stan Boicourt described the plight of the Western Nations if we allow ourselves to be drawn into another depression.

FROSH SPORTS ROUNDUP

(Continued from Page 3)

Steve Patten nabbed a long fly to retire the side and win the game.

Thurstone Injured

In the course of the game, Catcher Fritz Thurstone was injured and will have to remain on the sidelines for the rest of the season.

Against Pepperdine, our Frosh lost, 2-0, but were credited with three double plays. However, they managed to beat the Geologists, 8-2.

The tennis match was taken by Pomona by the close score of 4-5. The Mermen lost to Oxy, 27-14, with Al Haire, Morg Oglvie, Frank Connor and Ed Stofel placing.

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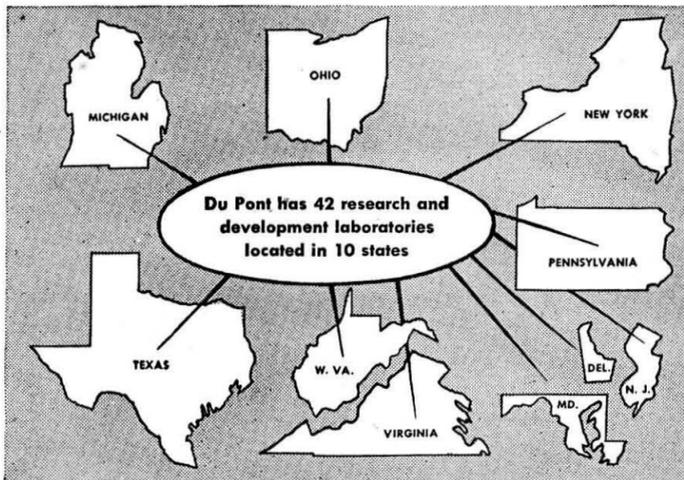
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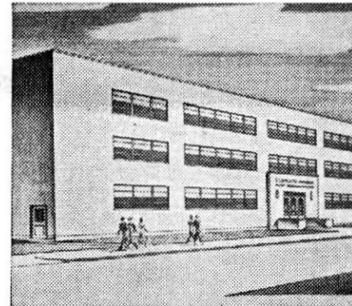
Each manufacturing department* has its own research director and maintains facilities for studies in its specialized fields. Thus, research having to do with dyes, neoprene and fine chemicals is centered at Deepwater, N. J.; research on cellophane and other transparent wrapping films at Buffalo, N. Y.; research on viscose rayon at Richmond, Va.; and research on coated and impregnated fabrics at Newburgh, N. Y. These

are only a few of the places where Du Pont scientists are now at work. Each manufacturing department does fundamental research as well as applied research on new processes and products.

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Artist's drawing of the Marshall Laboratory, new Du Pont laboratory for research on finishes. Under construction at Philadelphia, it should be ready for occupancy by late 1950.

are engaged in technical activities at Du Pont hold doctor's degrees.

Interchange of thinking

All manufacturing departments may draw on the services of the chemical, engineering and toxicological laboratories of the company in Wilmington. In addition, the Chemical Department's library at the Wilmington Experimental Station circulates reference material, conducts literature and patent searches and issues a weekly abstract of pertinent articles found in the important chemical journals of the world. This supplements normal work of this kind done by the various manufacturing departments.

No matter where a Du Pont research man may work, he has every opportunity to use his best talents, to advance as his abilities develop, and to profit by interchange of thinking with scientists whose minds complement his own.

*There are ten Du Pont manufacturing departments—each conducting research: Electrochemicals; Explosives; Fabrics & Finishes; Film; Grasselli Chemicals; Organic Chemicals; Photo Products; Pigments; Polychemicals; Rayon.

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