Racial prejudice to be subject of McKelvey essay contest

"The Problem of Racial Prejudice*" is the subject of the 1955 McKelvey prize contest in English. First prize, $75 first prize, $50 second prize, $35 third prize and $15 fourth prize. The contest, established in 1935, is open to all juniors and seniors at Caltech.


Each candidate must write an essay of 1000 words or less on the given subject, drawing ideas for his paper from the assigned reading. All essays must be submitted to Dr. Kent Clark, 301 Athenaeum, by Monday, April 18, 1955. Judging will be done by a five-man panel of judges, who are two men from the Humanities Division, two men from the Division of Engineering and Applied Science, and two women from the Women's Auxiliary. Essays will be awarded on the essays' originality, the quality of the argument and the presentation of the paper. The quality of the thought and the originality of the presentation will be the basis for judgment.

The results of the contest will be announced early in May. For further information, the student should contact Dr. Clark.

Tech grad student second in contest

Forrest Mozer, Caltech graduate student, won the $300 sec-

ond prize in a recent essay contest sponsored by the Grav-

ity Research Foundation. The contest, the subject of which was the nature of gravity, was sponsored by the Foundation in order to promote the theoretical development of this branch of physics.

The first prize of $1000 was given to co-authors: Dr. Stanley Friedmann and James O. Beanourn of The IBM Advanced Development Labora-

ory.

Field will talk on electronics

"Electrons, Electromagnetics and Microwave Technology" will be the subject of the Friday evening exhibition lecture this week. Professor Lester M. Field will discuss the study of very high frequency electricity and its applications in his talk, to be given at 7:30 p.m. Friday, Oct. 21.

Dr. Field is professor of electrical engineering at Caltech. Since coming to Caltech in 1933 he has set up an electron tube and microwave laboratory and is engaged in research on microwaves and inter-

vention of the papers. The program is headed by students who are aiders by YWCA and YMCAs.

Seminar leaders

Alexander Miller, lecturer in history at Stanford University, is the speaker slated for the morning platforms. The after-

noon program will consist of eight seminars, led by qualified leaders such as Dr. Floyd Ross, recent visitor to Caltech. Most of these leaders are teachers in the schools participating.

Pendulum solicits new contributions

The editors of Pendulum urge undergraduates with literary ability to write for the magazine over the Christmas holidays. Contributions can be given on the basis of a combination of these. Contributions should be submitted to edit-

ors of Pendulum, Caltech, 1400 California Ave, Pasadena.

Recreation

Pig punt football, swimming in a newly heated pool, squash, track, and trips to old campus spots nearby are a few of the activities—all coed—that will be enjoyed by the partic-

pants during the vacation like meeting. The top social event will be as usual the New Year's Eve party.

Anyone who desires further information or would like to make reservations—the fee for the full week will be $45—should contact the Caltech Y of-

The total in Caltech student body this year is $80,000, which is down from a total of $85,000 last year. Ricketts men contributed $800.00 and Blacker contrib-
uted $150.00. Total in Caltech student body is $425.25.

Off campus undergraduates have contributed $210.72 so far, which is a considerable increase over the $80.00 contributed last year.

The faculty members were satisfied with the drive this year, stating that they contributed through AID earlier this term.
Dear Editor,

Sperited on by comments of "frustrated" in the November 4 issue of your scandal sheet, we felt the call to pen a few words of wisdom to you.

Before venturing out with members of the Caltech contingent, we were violently warned. We were told that these engineering entities were something akin to Martians—that they sported sliderules instead of arms and smiled like automatons on the dancefloor.

But disillusion came. We found not the fascinat ing Cro-Magnon specimens we had anticipated, but honest to goodness, red blooded American BOYS.

We found that these Caltech creatures were human, with capacity for enjoying themselves and for giving female companions a really good time. So we tried to discover just what these males lacked (besides females). After careful analysis via the scientific method, we have arrived at a conclusion. We wish you luck in your search.

Are They Always Late?

On November 3, we found that these Caltech specimens were definitely "off-color." We have concluded that there is a lack of potentiality developed. We might enjoy the results yourselves. Why does it have to be limited to weather, beer bunts and additions to the wind tunnel? We just want people to be natural with us and not treat us as biological specimens. (This also pertains to males.)

We're all for you, boys! All we want is to see some of your potentiality developed. You might enjoy the results yourselves. Why does it have to be limited to weather, beer bunts and additions to the wind tunnel? We just want people to be natural with us and not treat us as biological specimens. (This also pertains to males.)

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If you're "off-color"... don't come to us!

...because we have Arrow sport shirts for the man who wants color galore. Stop in and let us lay out a sample to show you a Pleasure. Get color. Get comfort. Get style. Get Arrow. And, get on down here right now! Smart Arrow plaid sport shirts are priced at $1.50 up.

HOTALING'S
921 East Colorado St. Open Friday Night

Don't be a somber hombre...
The COOL Corner

By Frank Kofsky

As proof that contemporary jazz has really come of age, a few weeks ago "Time" magazine featured one Dave Brubeck, jazz pianist extraordinaire, on their cover. As many of you already know, Brubeck is held in high esteem by all devotees of cool music, and some, your reporter among them, go so far as to say that he is the foremost cool musician in America today. Brubeck was born in Texas but came to the College of Pacific in California to study animal husbandry, preparatory to taking over his father's cattle ranch. After one year with the cows, he switched to music, and since then, as they say on the sports pages, he has "never been headed."

Following graduation and marriage, he worked with the Octet from the Jazz Workshop in San Francisco, later setting out with the Dave Brubeck Trio, featuring Cal Tjader on vibes and bongos. At the same time, Darius Milhaud, French modern classical composer, was lecturing at Mills College, and Brubeck enrolled in his class. Under Milhaud's tutelage, Brubeck evolved a definite musical philosophy, rich in contrapuntal tendencies of today's cool jazz are a direct result of the Frenchman's teachings.

Brubeck's attendance at Mills was fortuitous in another respect, for here he met his best friend and musical partner, Paul Desmond. Desmond, an alto saxophonist, joined forces with Brubeck, Joe Dodge, drummer, and Bob Bates, bassist, to form the Dave Brubeck Quartet. There is no doubt that both Brubeck and Desmond are competent musicians in their own right, but as a team, they are unbeatable.

Prior to June of this year, Brubeck had recorded for his own Fantasy label, but at that time, he recorded his epic work, "Jazz Goes to College," on Columbia. Columbia has recently put out his second twelve-inch disk, "Jazz at Storyville," which I recommend without reservations. Five or six years ago, Dave gave a concert here. I feel that it certainly would be well worth our while to try and make arrangements for another. This idea is not unfeasible; his most vociferous supporters come from college campuses all over the nation. I'd like to hear some expressions of opinion from you on this subject.

Jazz notes from all over: Los Angeles Dept: Progressive fans will be overjoyed to learn that Shorty Rogers' Giants are now appearing at Zardi's (where else?), on Hollywood Boulevard. Shorty is noted for his excellent arrangements for both Kenney's and his own aggregations, and his fine trumpet; moreover, Shelton Manne, leading modern percussionist, is featured with the Giants. Elsewhere, Charlie (Bird) Barnett is at the Celebrity Room on La Brea, and Conte Candoli has taken over for Bob Williamson on trumpet for the Lighthouse All-Stars.

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New filter cigarette brings flavor back to filter smoking!

WINSTON tastes good—like a cigarette should!

Now there's a filter smoke college men and women can really enjoy! It's Winston, the new, king-size, filter cigarette with real flavor—full, rich, tobacco flavor. You're bound to enjoy Winston's finer flavor. And you're sure to appreciate Winston's finer filter. This exclusive filter is unique, different, truly superior! It works so effectively—yet doesn't "thin" the taste. Winstons are king-size for extra filtering action. Easy-drawing, too—there's no effort to puff!

Try a pack of Winstons—the filter cigarette that brings flavor back to filter smoking!

WINSTON...the easy-drawing filter cigarette!

WINSTON...the easy-drawing filter cigarette!
What changed this picture?

If you ever drove up to that old-fashioned pump and said "Fill her up!" you'll remember that you got the gasoline. But that's all you got! Because the primitive fuel pump was a long way down the road from the service station of modern times. We know, because we pioneered a surprising number of the customer services the petroleum industry has since adopted.

Like windshield washing service. We introduced the individual clean towel and special fluid—and first washed your car's windows all the way around.

Like the cash box on the pump island—the quicker to make change and save you time.

Like famous Union "Minute Man Service" that, at its best, even empties the ash trays, brushes out and dusts off your car.

Like the full-time cleaning and painting crews that keep Union's 4500 stations in the West the glinting white that invites you in.

When we introduced them these were "bonus services." Today you take them for granted when you buy gasoline. You do because the oil companies—in constant competition for your business—are continually improving their products and expanding their services.

For in America's free competitive economy, making things increasingly better for the customer is the only way to make any progress for yourself.
Redlands next for Tech cagers

The Caltech varsity basketball team opens its league season tomorrow afternoon against the Redlands Bulldogs. The game will be played at 4:15 in the Pasadena Armory and not at P.C.C. as previously announced. Leading the Bulldogs are Bob Pitman and Bob Edmondson, both all-conference selections last season, as they try to regain the crown which last year escaped them on the final weekend of the season. Both teams are fresh from last weekend's Redlands tournament where the hosts eliminated Edwards finished fourth, winning one and dropping both of its games.

Pasadena Nazarane, winner of the "R" tourney for the past three years, relinquished the title this year to Whittier, as the Poets grabbed a 69-66 win. The Santa Barbara team took third place by defeating Redlands 78-63.

Caltech and Santa Barbara opened the tournament Thursday afternoon and the Gauchos racked up a convincing 50-41 win. The Santa Barbara team had too much height for Tech as they controlled both backboards and made all their shots from close in. Center Phil Conley led Tech with twenty points and Bill Chambers threw in eleven.

In other first round games, Whittier edged Montmorency 49-47, Nazarene and Pomona 56-55, and Redlands squeezed by Oxy 53-52 on a basket by Edmundson in the last three seconds.

On Friday afternoon Tech tackled Westminster and again came out on the short end of the score, 75-47. Pitman Conley rolled his twenty point effort to lead Tech's scorers and Chambers was back at it. Westminster center Tine Hardemans was the difference as he counted 31 big points.

In the semi-finals, Whittier took care of Santa Barbara 67-57 and Nazarene ousted Redlands 53-40. Oxy best Pomona 88-78 in a high-scoring consolation game.

The finals will be played at 4:15 in the Pasadena Armory and not at P.C.C. as previously reported.Leading the Bulldogs are Bob Pitman and Bob Edmondson, both all-conference selections last season, as they try to regain the crown which last year escaped them on the final weekend of the season.

Boomers bow to USC, 3-1

Southern California dealt Caltech another defeat in soccer last Friday on the wet, slippery turf of T.F. Few people saw this contest, as it was the most avid soccer fans were scared away by the rainy weather.

The Trojans jumped to a quick lead by breaking through the Caltech defense to score three times early in the first half. Receiving no contact from Coach Hubenbach that the game had started, the defense woke up and began booting the ball down to the lonely forwards. Dick Osbald, taking advantage of the situation, brought the avid fan to his feet when he bounced a curving shot off the goalpost. Oslaf was right there and he booted it into the goal.

The final halftime scoreboard was 5-1. Both teams played tight ball in the second half, neither scoring, although Caltech missed enough close shots to win or tie the game.

This weekend the Beavers meet powerful USF on their own field in the final game of the season.

Tech harriers take second place in all-SCIAC meet

Led by Dave Crowther and Don Lewis, Caltech's varsity harriers edged out Pomona-Claremont for second place in the All-Conference cross country meet last Saturday. Occidental ran away with the meet, but there were real fights for second and fourth places as Tech beat Po­mona by one point for second and Redlands edged Whittier by two points to slip into fourth.

Oxy swept the first three places as Larry Wray won, Burt Stokesbary took second and Dan Nistlerman third. Byron Kough of Redlands was fourth and Ace Emmerting of Oxy fifth. Crowther finished sixth, just a few strides back of Emmerting, and Lewis was right behind Crowther to take seventh. Fred Wiltstorn had a tough break when he slipped and fell during the race, but he got up and finished seventeenth. Bob Tamba­lling, Bob Hamson, and Van Walkley were Tech's next men, all playing vital parts in beating Pomona.

The race was run on Whit­tier's rugged, hilly, 3.8 mile course, which, as a result of the previous day's heavy rain, had in many places the consistency of a layer of slime over plate glass. Several runners besides Wiltstorn slipped and everyone was slowed down by the mud, but the race was still run at a very fast pace, evidenced by the winning time of 61:57.

Beaud Saunders grabbed fourth place in the frosty meet to bring home Tech's only medal of the day. Gene Cording, running his first race of the season, came in tenth, and Tom Moore finished twelfth as the Beaverbabes took third. The score was Redlands 27, Oxy 41, and Tech 52 Steve Emanuel got fourteenth for Tech and Mike Ruch was sixteenth. Beaud had the worst break of the day when he slipped on the mud and twisted his ankle, but he still managed to finish.

After the most successful cross country season at Tech in sev­eral years, the varsity voted Van Walkley captain, and the freshman Beaud Saunders. The var­sity wound up in second place in conference standings, while the Beaverbabes were third in freshman standings.

A CAMPUS-TO-CAREER CASE HISTORY

"My job is to help solve problems of noise and other interference on telephone lines due to power interference. Inductive co-coordination is the technical term for the work.

"First thing the Chief Engineer explained to me was that all the answers aren't in the book." He was right. Most of the problems have required a combina­tion of electrical engineering, a knowledge of costs and generous amount of ingenuity. I like that way. It's given me an immediate opportunity to put into practice the theory I learned at school.

"In addition to this on-the-job experience, I have attended several special training courses conducted by the company. Now I'm breaking in a new man, just like when I started."

Don Garland's work is typical of many engineering assignments in the Bell Telephone Companies. There are simi­lar opportunities for college graduates with Bell Telephone Laboratories, Western Electric and Sandia Corporation. If you'd like to get more details, contact your Placement Officer. He will be glad to help you.

ENGINEERING NOTICE

The Glenn L. Martin Company representative will visit the campus on January 12th to discuss opportunities for graduating seniors of the school in engineering.

Contact your placement office for appointment and further details.

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AIRCRAFT — MISSILES — ELECTRONIC SYSTEMS
DESIGNERS AND MANUFACTURERS
Survey shows factors influencing job hiring

By Gordon Better

Personality, faculty recommendations and interest in the company are the factors which most interest job interviewers at Caltech, according to a survey made by the industrial relations section. Grades rank fifth and student activities eighth.

Survey

The survey was handled by MB grad Alfred Johnson, who sent questionnaires to 149 companies who interview at Caltech. Companies were asked which of 11 rating factors were of most importance in hiring new employees from college.

In order of relative importance, the factors are:
1. Previous work experience
2. Faculty recommendations
3. Interest in the company
4. Specific option
5. Grades
6. General appearance
7. Previous work experience
8. Student activities
9. Personality
10. Previous work experience
11. Student's pre-interview preparation

In respect to personality, the survey shows a combination of the impression the interviewer and general ability to get along with people. This ability is usually judged by faculty recommendations, student activities and personal references.

Specific option

Specific option means that the student's option in contrast to his general field of engineering or technical training. In hiring new students for college, this factor is not very important, since technical training is the most important factors. Oil companies also rate these factors highest.

Mechanical and electrical industries

Companies in the electrical industries like faculty recommendations, personality and interest in the company as the most important factors. Oil companies also rate these factors highest.

Atomic energy

Four companies who are engaged in atomic energy work reported they list option, grades and faculty recommendations as being most important. Activities and worked self through college were low.

Chemical and oil

The 23 chemical industry companies who reported list faculty recommendations, personality and interest in the company as the most important factors. Oil companies also rate these factors highest.

Mechanical and electrical industries

Companies in the electrical industries like faculty recommendations, personality and grades in their applicants. Mechanical industries think personality, interest in the company and general appearance are most important.

FACULTY PRODUCES

(Continued from Page 1)

"... this skit was hung together with comedy by Kent Clark and ditties by Jack Deutitz, Ted Harford, Norm Davidson and Kent Clark again. One of the more sparkling songs in the show, sung to "Tavern in the Town," went:

CHORUS:
Pauling's course can't be beat, can't be beat.
Pauling's course are a treat, a treat.
They will teach you the facts you need to know.
And maybe some that are not so.
SOLO:
If psi functions give you panics
Try blinding in wave mechanics.
Once you've tried it, resonance theory
Can't be beat!
CHORUS: We repeat.
Dr. Pauling's never wrong, never wrong.
And his double bonds are strong, they are strong,
They're the strongest, longest, double bonds around,
The strongest we have ever known.

In reply to the Dr. Pauling of the musical had this to sing: (to the tune of "The Battle Hymn of the Republic").

Experimental drugery is now quite obsolete,
I can sit here at my desk and pretend I'm below my feet,
And solve all nature's problems
by an introspection neat.

With my slick stochastic method
And make the academical smile.
Experimental drugery is now quite obsolete,
I can sit here at my desk and pretend I'm below my feet,
And solve all nature's problems
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The plot is that a young man with short hair is a success in the company, but his wife and a short lecture on a public problem; because his double bonds around.
The strongest we have ever known.

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