



**Board of Control**

Election day again—the day the continuing classes pick the men who will serve them for the coming year. Among the class officers to be elected are six men I'd like to put in a plug for, the Board of Control members. Don't forget that these are important offices with a great deal of responsibility, and they deserve good men to fill them. With th appeal to elect good men to these jobs, let me thank you for the good Board of the past year. Their sobriety of thought and steadiness of character have advanced Caltech's Honor System through the course of another year. They deserve a vote of your thanks.

If you just exercise your judgment and elect to the Board new members equivalent to the old Board, that is all I can ask. Thank you,  
**Michael Callaghan**  
Chairman, Board of Control

**No Conger Entrants**

For the first time in its history, the Conger Peace Prize contest has no entrants this year. The lure of a \$50 first prize or a \$25 second prize seems to have attracted no contestants in this annual Caltech oratorical competition.

**Deadline Tomorrow**

The deadline for the contest is tomorrow. And still, as of last Tuesday, no one is competing for the coveted honors. This attitude of decreasing interest in extra-curricular activities is becoming more and more prevalent at Caltech. In the ASCIT elections last term, more offices were uncontested than ever before. And at the class meetings Monday morning an average of 15 or 20 students turned out for each.

**Turn Out for Activities**

The present war scare is responsible for part of the decrease in interest, but most of it due to just laziness of the students themselves. Students of Caltech arise! You have nothing but a few bull sessions to lose. You have a world of experience to gain.

**An Addition**

In last week's discussion of the aims and services of the Caltech Beavers, a serious omission was made. Under the auspices of the Beavers is operated the Institute guide service, ably led by Stan Groner, who this year assumed chairmanship from Kent Stratton. This organization sees to it that visitors to the campus are shown around and are informed of the purposes of the many projects and equipment on the grounds.

Anyone who has any questions concerning the Beavers, or suggestions for the organization's improvement, is invited to confer with the undersigned.

**Bernard Engholm**

**Egad!**

"Business ethics," the car dealer told his son, "is something you couldn't do without. Take today, for instance. A man comes in to pay me a \$100 bill to clear up his account. After the man leaves, I find two bills

stuck together. He has paid me two hundred instead of one. Here, my son, comes in the question of business ethics. Should I tell my partner or shouldn't I?"

**Who Dealt This Mess**

by Jim Denton

**NORTH**  
S K,10,7  
H K,Q,J,8,4  
D K,4  
C A,J,3

**WEST**  
S Q,6  
H 7,3,2  
D 9,7,6,5  
C 9,6,5,4

**EAST**  
S A,J,9,8,3,2  
H 6  
D 8,2  
C K,8,7,2

**SOUTH**  
S 5,4  
H A,10,9,5  
C Q,10  
D A,Q,J,10,3

Neither side vulnerable: South dealer. The bidding:

S	W	N	E
1D	P	2H	P
3H	P	4C	P
4D	P	5D	All pass

The above hand turned up in last week's IH Bridge Tournament with the bidding as indicated. West led the two of hearts which was taken in dummy with the king. Three diamonds were then led ending in the South hand; a spade was sluffed from dummy. The queen of clubs was then led and lost to the king. East returned a club which was taken in dummy; South then returned to his hand with the ace of hearts, led out the last trump, and sluffed his two losing spades on a heart and a club, thus making six.

There are several interesting and very important points about this hand. The first is to notice that with the more obvious lead of the spade queen the contract can be made only if South trumps the third spade lead with the 10 or higher. The second is that with the opening heart lead the hand was played in a very dangerous way, for South must infer from the opening lead that it is a singleton in which case the club finesse must not be taken until all of the trumps are extracted. For if the finesse is tak-

**THE SQUARES' CIRCLE**

To the Editor:

This acknowledges your editorial received in our office last Friday regarding the crosswalk from Tournament park to Caltech's main campus.

Frankly I think with the traffic signals at Wilson Avenue and Hill Avenue there is ample opportunity for crossing in this particular crosswalk, however we are referring this matter to the Police Department to see if there can be a change in the synchronization of the signals.

There certainly would be no objection to the California Institute of Technology building an underpass for use of the students at this point. This is customary in many institutions where they are making use of two sides of a thoroughfare as an afterthought to the expansion of the campus activities.

You undoubtedly have driven in Los Angeles, San Francisco and some of the other big city areas and know there are crosswalks in the middle of the block in which people cross back and forth with moving traffic. I am hopeful that the results of the investigation will indicate a solution which will at least partially eradicate the problem.

Very truly yours,

**Don C. McMillan**  
City Manager

**Rods and Cones**

**Clues on Color Presented At Friday Night Lecture**

By Bob Kurland

Vision is a matter of taste—literally so; some people look at the world through rose colored glasses—fr a good, practical reason; you can (with your own eyes) see the blood vessels on the back of your eyeball; these "stranger than fiction" facts and theories were given to the public at last Friday's demonstration lecture by John Scott Campbell, speaking on color vision and photography.

An audience composed of CIT men and of the general public heard John Scott Campbell tell of what color is, of why we see color, and of how some of our mechanical contraptions give new glimpses into the world of reproduced color.

Luckily for us, "the human eye couldn't be designed any better if you tried," according to the lecturer. Suppose the human eye were equipped to receive and differentiate sense impressions by means of ultraviolet radiation: the world would then seem to be a sea of ink, said Campbell. If, on the other hand, we could see with infrared light, very small things would escape our vision. Thus it is, as the happy optimist might note, that we see only

(Continued on Page 4)

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Prof. G. R. MacMinn

with light in the "visible" range.

The actual mechanism of color reception is rather difficult to explain without the aid of diagrams. Suffice it to say there are two types of vision—receptors at the back of the eyeball, the cones and the rods. The cones, which are concentrated at the center of the retina and thin out towards its edges, are used in strong light and for color vision; the way they work is not yet fully understood. The rods, on the other hand, are most dense near the edge of the retina and thin out towards the center.

This distribution accounts for many of the phenomena of night sight, for which the rods, rather than cones, are used. These rods are much more sensitive to light than the cones, but are insensitive to differences of color. Fewer nerves are connected to a rod, too, so the rods give a less sharp picture. Night vision might be explained by these facts, with the following conclusions: we don't see as clearly as in the daytime; we see in black and shades of gray; and we see best at the sides of the field of vision—"looking askance", as it were.

However, as Campbell explained, it's remarkable that we can see at all, considering that a fine network of nerves and blood vessels cover the front of the retina (between the incoming light and the sensitive light receptors). Fortunately, we have had these blood vessels always, and don't notice their shadows (Continued on Page 4)

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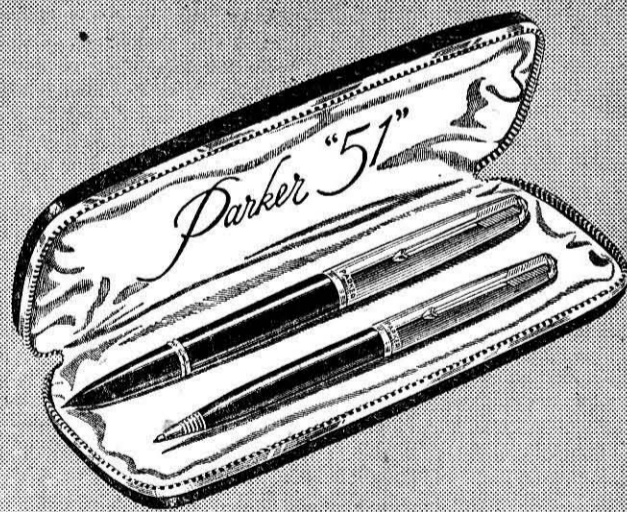
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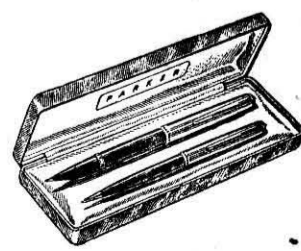


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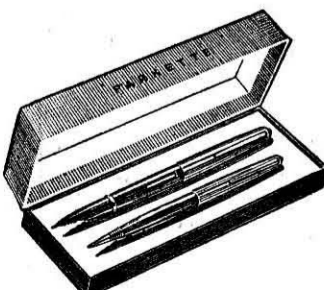
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# Oxy Swimmers Down Tech Paddlers 42-33

## Beaver Tankmen Down Poets 66-9; Pomona Here Friday

Oxy proved once and for all who had the better swim team last Tuesday, May 1, in the PCC pool, when they clobbered the Tech tankers 42-33. This gives the Beavers a sure second in conference dual competition, since they have beaten all the other teams at least once.

### Bad Start

All the times were slow, partly due to the fact that PCC is a long course pool and partly to the meet's being held early in the week. The meet opened poorly for the Engineers when they lost the medley relay and got only a third out of von Herzen's effort in the 220.

### Von Herzen, Libbey win

Then Haire came through with a surprise second in the fifty to back up Libbey's win, putting us back in the meet. Stanaway took second in the diving as he did in the last Oxy meet. The hundred was also a repeat performance with von Herzen winning the event and Libbey being touched out for second.

### Weil Second

In the backstroke, Weil led the field for the first five lengths only to be caught in the last one by conference champion Manning. However, he did take sec.

(Continued on Page 4)

# Doc Hanes to Run Decathlon

Revival of "Doc's Decathlon," run in former years by Tech's beloved trainer, Doc Hanes, seems to be in sight. The decathlon consists of 10 track and field events, points being awarded on the basis of a fixed table, so set that marks with the same number of points are roughly comparable.

### Two-Day Event

The meet will be held Friday and Saturday, May 18th and 19th, at Tournament Park. Events are: 100-meter dash, 400-meter dash, 1500-meter run, 110-meter high hurdles, shot-put, discus throw, javelin throw, pole vault, high jump, and broad jump.

All those interested in entering are urged to see Pete Mason in Blacker 5. Even most track men are like fish out of water outside of their own event, so don't let inexperience stop you.

# Buttin' In

by Butler

Saturday certainly proved to be Oxy day in the SCIC. The Bengals demonstrated their well-advertised strength in track by completely dominating the conference meet. While Jordan's spike powerhouse must bring joy to most Oxy fans, there are many who feel that the Bengals' sudden rise into national fame may have adverse effects. There have been opinions that interest in track in other conference schools has reached a new low.

### A Chance for Everyone

But what bothers me more than killing track interest in the SCIC is the effect on athletics at Oxy and possibly in other league colleges. The prime motive of small-time intercollegiate athletics is to give the inexperienced fellow a chance to compete and to receive good coaching. But the second a small school moves into the big time, then attention is given only to the more athletically inclined men.

And, furthermore, it is an easy step to draw the whole conference into a similar athletic set-up. When one school begins to dominate the sports scene, other competitors begin to concentrate more on enrolling athletes and spending more time in training those men to bring home victories.

### Let's Not Lose It

As I have so often before said, the SCIC has a wonderful set-

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# Tennismen Whip Poets; Oxy Up

Next week is a double-header for the varsity tennis team. Oxy will meet us here at 3:00 p.m. Wednesday, May 2nd, and we will meet Pomona there at 1:30 p.m. May 5th. These matches will end the conference tournament matches, and the big conference tournament play-off will be held at Whittier the following Friday and Saturday.

### Rain Again!

Caltech beat Whittier, 5-1, Saturday, with the three doubles matches washed off the court. The first set of the first doubles was won by Caltech just before the weather man got angry.

### Scott Tournament

The quarterfinals of the Scott Tournament are now ready to be played. The four matches will consist of Palmer Smith playing Curt Johnson; Jim La Fleur, Burk Welch; Rodger Baier—Bob Wood; and Jack Martin will play the winner of the preceding match. Finals will take place May 17, or earlier, if possible.

up for intercollegiate athletics. The usual big time tricks of supplying various types of inducements to attract athletes are absent. The result is that competition among the league members is quite even. So I hope that the SCIC will strive to maintain athletics to large groups of men the status quo of offering good who want to have fun.

### Congrats to Pete

Pete Mason certainly deserves a terrific hand for his fine per-

(Continued on Page 4)

# Oxy Diamondmen Win Short Game

Coming up this week are three games for Caltech's diamondmen. Pomona's Sagehens, showing increased strength since the beginning of the season, visit Tournament Park Saturday in what should be a close game. On Wednesday Whittier's Poets will try their hand at downing the Beavers. And there's a practice game against Glendale JC scheduled for Monday afternoon, here.

### Rain Stops Game

Last Saturday the Caltech baseballers lost to Oxy, 3 to 2, in a very close game which was called in the last of the seventh because of rain. The Tech team couldn't seem to hit in the clutches. There were many chances to drive in runs but they never materialized. The only two runs garnered were walked in in the second inning.

Norm Gray did a good job, but the team did not support him well when the chips were down. This loss cut Tech's chances for the conference championship, though it's still a possibility. Oxy's diamondmen have been beaten only by Redlands, while the Techmen have beaten everybody except Oxy. It's nearly as confusing as the football standings last year.

### BOX SCORES

Caltech—	Runs	020	000	0	2	5
	Hits	011	100	2	5	
Oxy—	Runs	111	000	0	3	5
	Hits	211	100	0	5	
	Pos.	AB	R	H	PO	A
Karasawa	3b	3	0	1	0	5
Wise	cf	4	0	1	0	5
Stallkamp	ss	2	0	1	1	2
Koons	1b	4	0	0	9	1
Neuverman	rf	1	0	0	0	0
Snider	lf	3	1	0	2	0
Johanson	2b	3	1	2	4	2
Pfeiffer	c	2	0	0	2	0
Gray	p	2	0	0	0	2

# Oxy Sweeps SCIC Meet; Tech Fourth

## Mason Sets New School Record In Two Mile; Season Finished

While the score didn't look much better than last year's, Caltech's track team did a lot better in marks than at any time during the past year at the All-Conference meet, held at Oxy's Patterson Field Saturday afternoon. Final score was Oxy, 90½; Redlands, 34½; Pomona, 17; Caltech, 11; Whittier, 10¾.

The entire meet was run in cold, windy weather with the threat of rain materializing just before the mile relay, the final event of the afternoon. In view of the weather a surprising number of records were set.

### Meet Records

Leading mark was in the pole vault, with Oxy's Dick Shivers breaking the school, meet, and conference records in a tremendous 14 ft. 1¾ in. leap. He might have gone even higher had not the rain started.

Bob McMillan, ace two-miler, competing instead in the 880, broke the old meet record of 1:55.3 by running 1:54.7. He was shoed home by Hal Butler, also of Oxy, who broke the old record in 1:54.9. In the discus, Doug Martin of Oxy heaved one out 142 ft. 4½ in., eclipsing the old meet record of 141 feet.

### Misses Meet Record

Tech's honor was purely with-

(Continued on Page 4)

# Frosh Sports Roundup

By Chuck Sargent

With the conference meet at Pomona last Friday afternoon the SCIC frosh started the last lap of the spring athletics season. Only one more dual meet remains for the swimmers before next Thursday's conference trials, and the tennis squad likewise has but one match left before the Conference Tournament.

### Busy Babes

This weekend is a big one for the Tech-Pomona frosh rivals. Tomorrow the Pomona swimmers will be entertained at PCC by the Beaver paddlers, and on Saturday Tournament Park will be the scene of both a tennis match and a baseball game between the Tech and Pomona frosh. It is with deep regret that last Saturday's sound trouncing of the frosh baseballers, 17-0, by Whittier, is reported.

### 15 Points

It was a miserable day for the Beaverbabes, though; they could collect but 15 points. However, one win was registered for Tech in the shot put by Gene Kaiser. His winning put of 40 ft. 3½ in. was his best mark of the season, and marks the peak of a steady improvement which began at the opening of track practice last February.

Kaiser's winning put may not

(Continued on Page 4)



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# Be Happy-

My girl friend likes my big blue eyes;  
She likes the way I croon.  
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Just watch my baby swoon.

Lois Reinke  
Wayne University

My teacher says good habits are  
The things we should be startin'.  
So now when I buy Lucky Strikes,  
I buy 'em by the carton!

Barbara Piller  
University of Houston

I am a fellow who designs;  
In fact, I study art.  
I'm smoking Lucky Strike, of course,  
That is, because I'm smart.

Arnold Friedmann  
Pratt Institute

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**CLUES ON COLOR**

(Continued from Page 2)  
at their customary places on the retina. However you can see the shadows of the blood vessels in the following experiment which John Scott advised the audience to try: look up at a very black and dark place (make sure no reflected light is present) and have someone shine (from below) a light up into the top of your eyes. The light will be reflected from the top of your eye ball and cast shadows of the blood vessels at different places from the usual on the retina, and you will observe a dark orange network.

The chemical which makes the rods light-sensitive is used up by light, thus accounting for the twenty minutes or so it takes us to get used to a dark place, e.g. a movie theater, after we've been in a strong light—e.g. a roving police spot, the foggy, smoggy southern California dewlight. Some night fliers during the war, however, couldn't afford to wait that 15 or 20 minutes. Since red light doesn't use up the chemical in the rods, the pilots wore red (yes, you guessed it, rose-colored) glasses to help them keep night vision during the preliminary session in the briefing rooms.

The mechanisms (and some of them are amazingly complicated, we found out) of reproducing color in photography and films can lead to interesting results, as Campbell illustrated with following example: one of the first methods of color movie photography involved rotating three colored filters (red, blue, and green, the three primary colors) over the aperture of the film camera.

Each of the frames of the films was colored either red, blue, or green, and this system gave satisfactory color reproduction until a column of marching soldiers clother in red coats and blue trousers was photographed. Result—movie of a column of blue trousers marching one pace ahead of a column of red coats. John Scott Campbell awaits with interest the day a similarly colorful parade is viewed by TV using the new CBS color system, which is based

**FROSH SPORTS ROUNDUP**

(Continued from Page 3)  
have been a new record, but it should encourage some of those bashful frosh who have ability but don't know it. Many frosh, complaining of a lack of experience, refused to even try out for a sport.

**Upset**  
When the final count of points was made the frosh thinclads had managed to place but fourth in the meet, and only Redlands was beaten by the Beaverbabes.

Other Tech scorers:  
100—Munn (2nd), Lloyd (4th).  
220—Munn (3rd).  
Discus—Kirkpatrick (4th).  
Javelin—Hodges (3rd).  
Relay—Caltech (4th), Lloyd, Brooks, Kirkpatrick, Munn.  
Final score: Oxy, 75; Pomona, 43½; Whittier, 17½; Caltech, 15; Redlands, 14.

on a similar system of sequential "color reproductions.

Noting the appreciation with which the audience received the evening's lecture, and the crowded attendance, we decided to ferret out a few facts about the Friday night talks. Dean Watson, who is in charge of the series, told us that the demonstrations were started soon after the Norman Bridge Laboratory of physics was built and have continued annually (except during the war) since then. According to him, the series was initiated at the request of high school teachers who wanted to keep in touch with new scientific developments.

**WHO DEALT THIS MESS?**

(Continued from Page 2)  
leads anything but the spade ace, North gets the lead, leads out trumps, and leads five diamonds, sluffing his three spades; then the only trick that is lost is a club to the king. If the opening lead is the ace of spades declarer gets in on the second lead and sluffs two clubs and a spade on the diamonds.

Though the play is reasonably straightforward, as is often the case, the bidding presents a problem. The Blackwood four-five no-trump convention cannot be used because it would not give vital information about the spade suit. The Culbertson four-five no-trump convention cannot be used because neither North or South has the necessary cards (three aces or two aces and the king of every bid suit) to bid four no-trump. Culbertson asking bids also fail because the vital information as to distribution would not be obtained. The bidding shown is a modified que-bidding method which also failed because of lack of information about the spade suit, since North's jump could not have been made without a spade honor.

However, the San Francisco convention is successful. The bidding, up to four clubs by North, would remain unchanged, but instead of responding four diamonds, South would respond four no-trump, and when North bid five no-trump South could bid six hearts immediately. In the San Francisco convention an

**OXY SWEEPS SCIC**

(Continued from Page 3)  
in the school, since the time was 7/10ths second off the meet record, but two-miler Pete Mason did manage to break the school record of 9:52.2, set by Keech in 1923. Mason's time was 9:46.7, exactly 20 seconds better than his best previous effort.

**Tautz Vaults 12 Ft.**  
Don Tautz vaulted 12 feet to pick up a tie for second with Marrin of Oxy and Conly of Redlands. Bob Waid got a good third in the broad jump, going 21 ft. 7¼ in., ½ inch behind the second place man. Only other place was picked up by Hal Woody in the shot. His 41 ft. 3½ in. put was his best of the year.

ace is counted as three points and a king as one. The responses to the four no-trump bid are: two points or less, five clubs; three points, five diamonds; four points, five hearts, and so on. The five no-trump response shows six points and since South knows that North has the king of hearts and the ace of clubs, the remaining two points can only be the king of diamonds and the king of spades.

This hand is a good illustration of the difficulties of slam bidding and of the folly of relying completely on the popular Blackwood convention. If more than one slam bidding method is used, many of the makeable slams which are otherwise passed up will be bid.

**BUTTIN' IN**

(Continued from Page 3)  
formance last Saturday by running the eight-lapper in 9:46.7 for a new Tech record. If Mason had been pushed a "little he might have set a new meet record, that being only seven-tenths under his winning time. Besides setting a new record, he ran better than 20 seconds under his previous best, which certainly brought his fine track career to a climactic end.

**Oxy on Top**  
The baseball team certainly took a heartbreaker Saturday when Oxy squeezed out a 3-2 victory in a seven-inning contest. It was even more important in that Oxy moved into first place over the Beavers. But don't lose hope men, the season is only half over and anything, I hope, can happen.

Plaudits to John Lamb's swatters who finally moved into the win column in the tennis race. For a while there were fears that the Beavers would poll a perfect record of no wins.

**Best Wishes, Miriam!**  
A really true friend to Techmen and Tech sports, Miriam, of the Athletic Office, has departed. Many hearts will sadden at her leaving, but we will always remember her. She always did so much to help smooth out the bumps that have perennially featured the Caltech sports picture. Thanks, Miriam, for doing such a swell job. And best wishes from all of us!

**OXY SWIMMERS**

(Continued from Page 3)  
ond by a wide margin. Haire, swimming breaststroke, for the first time this year, took third. Houser was good for a second in the 440, and Wyman was in the show position. The final freestyle relay was won by Caltech, but it was then too late for it to have much effect on the final outcome of the meet.

Results:  
Occidental, 42; Caltech, 33.  
Medley—Oxy (Peterson, McClusky, W. Peterson). 3:27.8.  
220—Ragan (O), McCoy (O), von Herzen (CT). 2:33.7.  
50—Libbey (CT), Haire (CT), Adams (O). 25.7.  
Diving—Sparrow (O), Stanaway (CT), Delaney (O).  
100—von Herzen (CT), Manning (O), Libbey (CT). 58.6.  
Back—Manning (O), Weil (CT), Ensign (O). 2:42.8.  
Breast—McClusky (O), Bonham (O), Haire (CT). 2:47.3.  
440—Ragan (O), Houser (CT), Wyman (CT). 5:47.1.  
Relay—Caltech (Houser, Haire, von Herzen, Libbey). 4:11.2.  
Caltech, 66; Whittier, 9.  
Medley—Caltech (Ogilvie, Reed, Stofel). 3:51.7.  
220—von Herzen (CT), Wyman (CT), Taylor (W). 2:40.7.  
50—Libbey (CT), Haire (CT), Gillies (W). 26.2.  
Diving—Stanaway (CT), Gillies (W), Merten (CT).  
100—Libbey (CT), von Herzen (CT), Gillies (W). 1:00.7.  
Back—Weil (CT), Ogilvie (CT), Hughes (W). 2:47.7.  
Breast—Connor (CT), Reed (CT), Hawley (W). 2:58.2.  
440—Houser (CT), Wyman (CT), McClellon (W). 5:47.0.  
Relay—Whittier defaulted.

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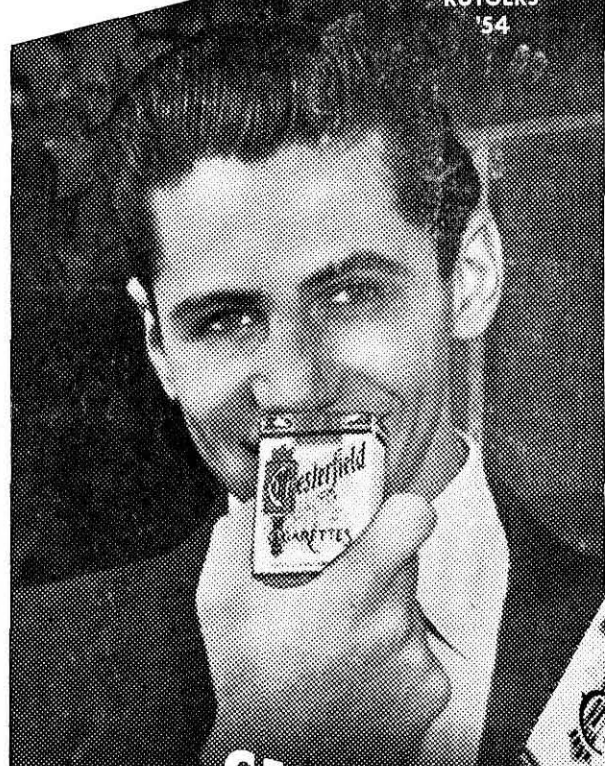
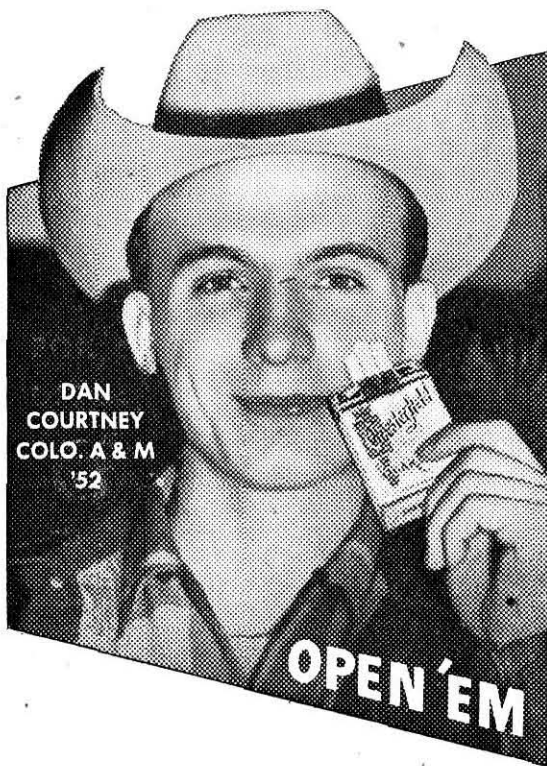
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