

Five School Play Tomorrow Night

ICC Presents Series of "TV" Shows
Cuse Concocting Corny Confection

The second I.C.C. show in as many years will sparkle behind the footlights tomorrow night.

Featuring individual shows by Caltech, Chapman, C.M.C., Scripps, Pomona, Occidental, Redlands, and Whittier, followed by a two hour dance, the affair will be a full evening's entertainment.

75c Cents Per Head

Tickets for the affair, which starts at 8:00 p.m. are 75 cents apiece, and will also get you into the dance. All the proceeds above expenses are going to the World Student Service fund. The affair is either stag or drag, but don't forget the dance.

Music will be by Keith Williams and his band, the group that played for our last ASCIT dance at the Riviera. Tickets can be purchased in any of the five houses, in the bookstore, or at the door.

Musical Comedies

The shows are practically all of a musical comedy nature, the two exceptions being those of Tech and Redlands. Redlands is again featuring Dan Boone, this time in a heartfelt stomach deodorant commercial program.

Caltech's show, emanating from the pens of Cuse and Max Shulman, has been hailed by Cuse as the greatest drama yet to hit the T. V. borscht circuit. Entitled "The Happy Home Life of Bleachy and Dogwood," the skit is a parody on the comic strip Blondie by Chic Young.

Tech Actors

Featuring such great names in Tech show business as Chuck Bates, Dave Hanna, Dick Tracy, Bill Blodgett, Jess Weil, and Pete Verdier, the show will make anyone feel at home.

Involving such things as a dead dog, a payoff in a mumbly-peg championship tourney, and a frustrated housewife, the play is said to carry a message for everyone.

Broadcasting Club

A group of students would like to form a broadcasting club to present weekly programs over a local Pasadena station in cooperation with the ASCIT and the YMCA. Only those sincerely interested in radio program writing and presentation should apply. See Barney Engholm or Mike Mecherikoff (Ricketts) immediately.

Jr.-Sr. Garden Party Set For May 6

Juniors and seniors are getting their dates in anticipation of the Junior-Senior garden party to be held on May 6. The time has been set at 2:30 p.m. and the place is Dabney lounge and garden. La Verne Boyer and his orchestra, who have played for many previous Caltech dances, will supply the melody for this affair.

Annual Affair

The dance, an annual affair, is held by and for the upperclassmen and faculty. Here in a social rather than academic atmosphere, the upperclassmen meet the men who have been their instructors. Present will be department heads and the writers of the text books that the juniors and seniors have been using or at least have bought in the past few years.

Dress will be sport or informal for both the men and their dates. Refreshments consisting of punch and French pastries will be served.

Campus Calendar

FRIDAY, APRIL 20
11:00 Assembly, Culbertson hall.
3:30 Golf, Whittier Varsity at Whittier
3:30 Tech, Pomona Varsity and Frosh at Tech
4:00 Swimming, Oxy Varsity and Frosh at Oxy
8:00 I.C.C. Show, Whittier
ATURDAY, APRIL 21
9:00 Art Class, O4 Mudd
1:30 Tennis, Chapman Varsity at Tech
2:15 Baseball, Whittier Varsity at Whittier
2:30 Baseball, Oxy Frosh at Tech
TUESDAY, APRIL 24
4:00 Beginning Music Theory Class
5:00 Advanced Music Theory Class
7:30 Band Practice
WEDNESDAY, APRIL 25
7:30 Orchestra Practice

Newshawks Wanted

Do you want to see your name in print (honorably)? Would you like to be one of the molders of public opinion? The Tech needs men interested in all phases of journalism including news and sports writing, copy reading, writing, and layout. The staff meets every Monday night to correct the articles written over the weekend and to lay out the pages. If you are at all interested, see Chuck Benjamin in Ricketts 56 or come down to the Tech office in lower Fleming Monday night.

College Qualification Test May Help Defer Techmen

PCC To Give Hillbilly Play At Assembly

"Sparkin'" is the name of the one-act play to be presented to Tech students at Friday's assembly when a group of performers from PCC again hits the CIT campus. The cast is under the able direction of Nira Monsour, who succeeded in putting over the show to the accompaniment of much hilarious laughter at the PCC auditorium two weeks ago.

Hillbilly Love

The scene is set in a hillbilly farmhouse. Susan Hanna, a pretty but shy farmer's daughter, is the object of the rough-hewn affections of Orrie Sparks, a neighboring farm hand; and the theme takes off from there.

Staging Difficulties

Staging difficulties, due to the size of the Culbertson stage, were overcome when Jim Turner, the stage director, decided that a slight alteration in scenery would not change the play's effectiveness.

Caltech Selected as Test Center; Forms Available at Draft Boards

All registered undergraduate students, including seniors who are contemplating going on to graduate schools, are strongly urged by the Deans to take the Selective Service College Qualification Test. Cards requesting assignment to a time and place for taking the test became available on April 12 at all draft boards.

22 Chosen As New Beavers

The election of officers set the busy beavers off for another constructive year. New members were also voted on at the meeting April 3.

Barney Engholm was elected president and Dick Jones is the new vice-president. Norm Gray became treasurer on the promise of guarding the chips with his teeth. Don Tautz was elected secretary.

New Beavers

Voted into the lodge upon successfully felling a blade of ice plant were Dave Hanna, Babe Karasawa, Mike Callaghan, Alex Dessler, John Gee, Lee Henderson, Ed Schlinger, John Kidder, John Boppert, John McCourt, Sam Middlebrook, Phil Orville, Bob Parnes, Morgan Ogilvie, Leon Michaelson, Frank Ludwig, Ron Shreve, John Billings, Gil Kitching, Chuck Miller, Chuck Benjamin and Bruce Watkins. The new faculty members were Professors Varney and Beadle.

Next week's Tech editorial will be written by Barney Engholm on the subject of the functions of the Beaver organization, especially those least known and understood by most Techmen.

Musicale Plans Noon Concerts

The Musicale has announced the program for the noon concerts for the remainder of the month to be given in Dabney lounge.

The program is as follows:
Friday, April 20th—Haydn, Trio for two flutes and cello in C major; Reigger, Trio for flute, harp, and cello; Beethoven, Quartet, op. 59 No. 1.
Monday, April 23rd—Mahler, Symphony No. 4; Hindemith, Sonata for solo cello.

Tuesday, April 24th—D'Indy, Symphony No. 2; Debussy, Suite Bergamasque.
Wednesday, April 25th—Verdi, Forza del Destino (excerpts).

Thursday, April 26th—Scriabin, Sonata No. 4 in F sharp major; Bach, Goldberg Variations.
Friday, April 27th—Handel, Sonata No. 4, D major, VI, Pa.; Beethoven, Quartet, op. 59 No. 2.

Monday, April 30th—Mahler, Mahler, Das Leid Von der Erde.

Public Speaking Subject of Films

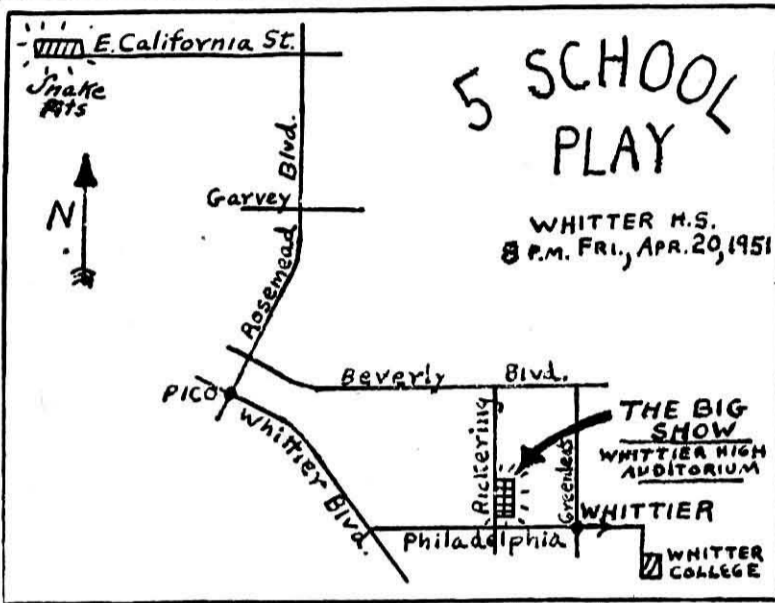
Do you have butterflies in your stomach when you are called on to say a few words before an audience?

What to do about this and other basic problems in public speaking will be graphically demonstrated in a series of new educational training films to be previewed in Culbertson hall at 4 p.m. today. Faculty, students, and the public are invited to attend. There will be no admission charge.

Prepared at NU

According to Dr. McCrery, who received these films for preview from the National Safety Council, the series was recently prepared by the School of Speech at Northwestern U. The series was designed to give efficient, basic training in effective speaking to industrial and technical personnel who have occasion to

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Blood Donations

A Red Cross mobile blood collection unit will be in Dabney Lounge on Tuesday, April 24, from 2 to 7 P.M. to receive blood donations from Tech personnel. The unit is equipped to handle 160 pints and only about 80 persons

have signed up, so more contributions are needed. If anyone is interested in giving blood, including students, faculty, and personnel, please see Dick Libbey, Fred Stratton, Earl Hefner, Kent Wood, or the Institute Personnel Office.

Athletic Awards Presented at Last Assembly

Presentation of athletic awards was the business carried on at last Friday's assembly. The awards were presented by Coach Carl Shy, who presented the Vesper Trophy, the All-Conference Award, and the Varsity letters; Coach Ed Preisler, who presented the Frosh numerals; and Coach Don Garman, who gave the all-league water polo awards.

Vesper Trophy, for improvement, moral influence, sportsmanship, and scholarship to Norman E. Gray.
All-Conference Award to Thorne J. Butler.
Varsity lettermen: Thorne J. Butler, co-captain; Alfred W. Sereno, co-captain; John D. Gee, Norman E. Gray, Leon C. Michaelson, Harry Patapoff, Edward A. Stern, David F. Stevens, Donald K. Tautz.

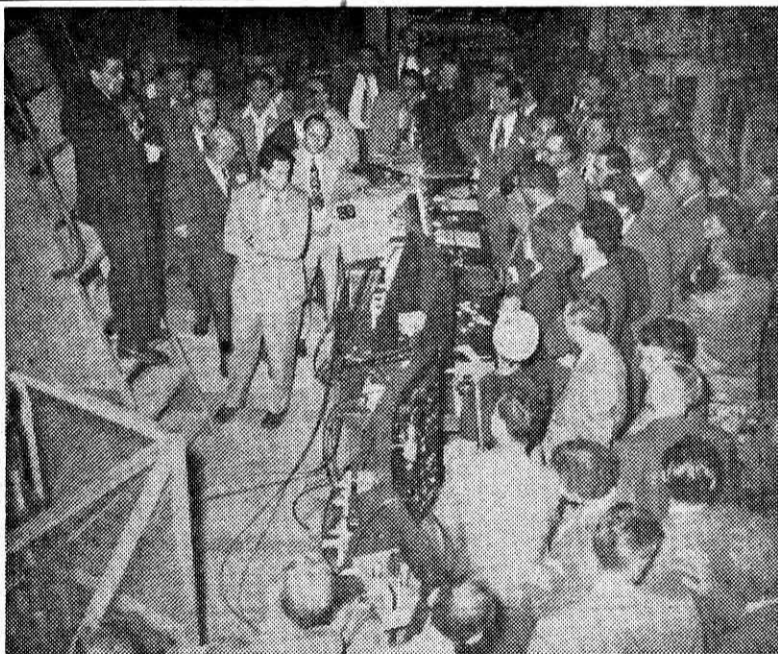
Senior Service Award, Dean C. Daily.
Manager, Mell D. Cassidy.
Frosh Numeralmen: Fred C. Anson, captain; Lee A. Henderson, Curtis C. Johnson, Robert D. Lynam, Charles R. Plambeck, Richard S. Smith, Hugh P. Taylor, Bruce J. Watkins.
Manager, Cornelius V. Sundt.

All-League Water Polo Awards: first team, Wilbur J. Barmore; second team, Richard M. Libbey, J. Morgan Ogilvie, Richard P. Von Herzen.

Student Shop Officers Chosen

The Caltech student shop held its annual election meeting last Monday. Elected to the shop committee, the governing body of the shop, were Henry Richter, Jerry Ross, Dud Wagner, Herb Henrikson, Ed Gauss, Teddy Einwohner and Bill Gardner.

After the general meeting the committee convened, and from its membership chose Richter shop foreman, Ross as assistant foreman, Gauss as secretary-treasurer, Gardner as purchasing agent, Wagner as maintenance head, Henrikson as training head, and Einwohner as publicity man.



Pictured above is a group of alumni at the on-location lecture about the synchrotron given as part of the alumni seminar last Saturday. The old grads spent the day on campus looking at new developments and listening to lectures, with a traditional student house lunch to top off the day.

Big Foxhole!

Synchrotron Needs Power

by Duane Marshall

The typical answer to the question, "What are they building over there?" seems to be "grmmmlgh . . . synchrotron."

The construction in the past has more or less been kept down to an inconspicuous rumble but has picked up to a large degree in the near past. The cause of this increase in activity seems to be the excavation of a hole under the floor of the building for a power supply able to give what the synchrotron needs for giving an electron half billion volt speed.

200 Incher Gound Here

The building now being used for the construction of the synchrotron was originally built for the purpose of grinding the 200-inch mirror in use at Palomar. After the mirror was finished and carted off, the Institute offered the use of the building to the government for atomic and nuclear research.

The Atomic Energy commission is backing the research program with 1 1/4 million dollars over a three-year period.

Hole in Floor

Some of the construction features are worth noting. To dig the hole for the power supply room to be located, they had to go through the existing concrete floor. A neat bit of cutting was done with a diamond wheel to accomplish this.

At present there is a small caterpillar tractor running around in this hole pushing dirt and diggings up to one side of

the hole, where it is loaded onto a vertical bucket conveyor which loads it onto another conveyor which carries the stuff out to a truck. The question is raised . . . How does the Cat get out of the hole it has dug itself into?

Sound Traps on Intake

Sound traps will be used on the ventilation intakes and exhaust to make life pleasant and quiet in Fleming and Dabney.

Cooling towers may have to be erected on top of the building to furnish a cooling system for the magnet . . . it is expected that about 3000 amps will be running through the magnet coils.

Magnet From Berkeley

The magnet was originally in Berkeley and is a 1/4-scale model of a magnet which will be used to accelerate protons.

By next fall it is expected that the synchrotron will be in full swing and able to accelerate electrons to 1/2-billion volts.

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Officers Named By Tau Bates

Elections highlighted the week for the Tau Beta Pi's. Barclay Kamb was elected president for the coming year and Howard Preston vice-president. Other officers are Teddy Einwohner, corresponding secretary; Pete Verdier, recording secretary; Boyd Israelsen, treasurer; James Gay Helmuth, cataloger.

Poll to Repeat

It has been reported that Tau Beta Pi will continue with the Alumni Interview program which they carried out last year so successfully, and also with the Instructor Rating Poll.

This very active organization is also considering a program for gathering material on graduate schools throughout the country. This would enable the graduating senior to find more easily the graduate school most fitted to his needs.

Thinclads Top Poets 69-62 In Close Meet

Beavers Win In Distances, Field; Pomona Meet Here This Friday

It had to happen sometime, and at last the Tech track team won a meet, aceing out Whittier 69-62 Saturday. The weather was ideal, the track in good shape, and Bert's boys bounced back from the trouncing by Oxy in fine shape.

The meet was a corker down to the final wire. Tech took a 6-3 lead with Mason's win in the mile, but couldn't stem the tide of the 440, 100, and 880.

Field Events Score

When the field events started to roll in, however, Tech crept up, finally in the discus, Mason's win in the two mile, and Waid's win in the broad jump.

Two Point Lead

At this point Tech was ahead by two points and needed three to cinch the meet. Inspired by the thought, Kliegel, Irwin, and Waid swept the lows to put the meet on ice. Fortunately, we didn't need the relay.

Outstanding Marks

Other outstanding marks were Middlebrook's 160' 4 1/2" in the javelin, closely followed by Stefanides, and Tautz 12' vault, followed by Riggs. Bill Irwin also turned in a creditable 16.8 in the high hurdles.

Pomona

Tomorrow afternoon, rather than Saturday, Tech will meet Pomona. The teams are almost

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Buttin' In

by Butler

On Monday afternoon Tech had the distinction of appropriately mixing science with athletics. The incident revolved around the now-perennial discussion of whether a pitcher really throws a curve or is the batter a victim of an optical illusion?

Any Doubters

If anyone still doubts that a man can toss a curve ball, there are some 200 guys on campus who witnessed Norm Gray pitch several curves while cameras recorded, the throws for posterity.

How Started

It seems that this sudden interest in curves resulted from an argument between Grad Student Ed Kurtz and Dr. Eugene Cowan. As a good physicist, Dr. Cowan was sure that curves are

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Netmen Lose To Oxy, Beat Poly

The fourth week of the term brings L.A. State and Chapman here for tennis matches. L.A. State met Tech at 3:30 yesterday and Chapman will play the second round of the conference with us Saturday at 1:30 p.m.

Practice

Caltech's Beavers defeated Cal Poly 5-4 in last week's practice match. Since this match was played in the middle of the week when labs conflicted, it proved to be good practice for those holding lower positions on the Varsity ladder.

Singles—
Frank Belmont (CP) def. Jim La Fleur (CT) 6-3, 6-1.
Henry Goerke (CP) def. Marv Hyman (CT) 6-3, 6-1.
Tom Emery (CT) def. Wally Henke (CP) 8-6, 6-0.
Dick Ireland (CT) def. John Wilson (CP) 6-3, 7-5.
Fred Howarth (CP) def. Bob Wood (CT) 6-4, 6-1.
Clare Markey (CP) def. Alex Dessler (CT) 2-6, 6-4, 10-8.

Doubles—
La Fleur-Baier (CT) def. Bellmont-Henke (CP) 6-4, 6-2.
Emery-Ireland (CT) def. Goerke-Wilson (CP) 6-4, 6-4.
Wood-Hyman (CT) def. Howarth-Markey (CP) 4-6, 6-1, 6-1.

Close Match

Caltech gave Oxy a good fight

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Baseballers Win Over Chapman

The Varsity baseball team coasted to a 15-9 victory over Chapman last Saturday. Winslow started on the mound for Tech. He pitched good ball for three innings, when Hedrick took over. Winslow gave up four hits, but only one run. Hedrick gave up five hits and two runs in the three innings he pitched. Gray pitched the last three innings of the game, allowing only three hits, but the team did not give him any support and Chapman got six runs.

Fast First Inning

The Beavers started right off in the first inning by scoring nine runs. In that inning the Tech team got seven hits, while Chapman made two errors. The first eight men were up before there were any outs.

The game went along very smoothly as far as our defensive play was concerned until the sixth inning when two substitutions were made and the rest of the team was shifted a little. Up till this time they had made only three errors, none of which let in any runs.

Poor Eighth Inning

From the sixth on the team made eight errors. Five of these were in the eighth inning when Chapman got six runs.

Whittier Saturday

Next Saturday the Varsity will take on Whittier there. We hope to see them get another league victory that day.

Golfers Still Seeking Win

Pomona, with what is reported to be its strongest golf team in many a year, ignominiously whipped the Beaver golfers in a match held Saturday at the Redhill Country Club. Outscores the Techmen 16 1/2-1 1/2, the Sagehens ran into little trouble.

This week's match finds the clubswingers meeting Whittier at the Hacienda Country Club Friday at 1:30.

Swimmers Versus Oxy On Friday

Tankmen Outswim Redlands, Try For Conference Championship

By Jesse Weil

Tomorrow afternoon in Oxy's pool the two most powerful swim teams in the SCIC will meet to decide the conference championship, or at least a share of the top place. Final results in the championship race will depend on the second Oxy meet, to be held a week and a half later.

Both teams have defeated all other conference competition by similar scores. A comparison of times shows the Beavers to have

Frosh Sports Roundup

By Chuck Sargent

The future of the frosh track team appears very bright. Last Saturday they defeated the Whittier team, 81-38, to bring their season record to two wins and one loss, with but one league opponent left, Pomona.

If the Beaverbabes can overcome the Sagehens, they will finish the season second only to a strong Oxy team.

Fast Two-Mile

With due respect to the victorious Beavers, the best event of the afternoon was the two-mile, won by Bonham of Whittier in the remarkable time of 9:48.9, 18 seconds better than the conference frosh record. However, since only those times made at the conference meet are recognized, his time is not an official record.

Winners

High-point man for the Tech frosh was Campbell with 15 points. He collected them with wins in the low hurdles and

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Rowdies Show Football Power

Ricketts and Throop, sweeping in victory after victory (two apiece), are ahead in Interhouse football. The race for football points stands as of Monday:

	Won	Lost
Ricketts	2	0
Throop	2	0
Blacker	1	1
Dabney	0	2
Fleming	0	2

Scores of the games have come out as follows:
Throop, 8; Dabney, 6.
Ricketts, 12; Blacker, 0.
Throop, 7; Fleming, 0.
Ricketts, 18; Dabney, 0.
Blacker, 12; Fleming, 8.

Redlands Again

Everyone had a field day at Redlands last Saturday, with almost every member of the squad turning in his best time of the season. Again the Beavers won, this time 55-20.

Improve

Houser was astonished that he had cut eight seconds off his 440 time when he wasn't pushed and "felt lousy" besides. Connor was gratified at finally breaking three minutes in the breast-stroke. All in all, it looked like a good premonition for the big one with Oxy tomorrow. See you there. Results:

Caltech, 60; Whittier, 15
Medley: Caltech (Ogilvie, Reed, Cagle) 3:53.5.
220: Houser (CT) 2:37.2.
50: Libbey (CT) 26.2.
Diving: Gillies (W).
100: Libbey (CT) 1:02.4.
200 Back: Weil (CT) 2:52.9.
200 Breast: Reed (CT) 3:06.9.
440: Houser (CT) 5:57.0.
400 Relay: Caltech (Haire, Cagle, von Herzen, Libbey) 4:24.1.
Caltech, 55; Redlands, 20.
MEDLEY: Won by Caltech. 3m. 29.3s.
220 FREE STYLE: 1—Von Herzen (CT); 2—Houser (CT); 3—Luley (R). 2m. 34.4s.
50 FREE STYLE: 1—Libbey (CT); 2—Perry (R); 3—Haire (CT). 25.7s.
DIVING: 1—Oosterhouse (R); 2—Stanaway (CT); 3—Merton (CT).
100 FREE STYLE: 1—Von Herzen (CT); 2—Libbey (CT); 3—Perry (R). 58.2s.
BACKSTROKE: 1—Bleeker (R); 2—Weil (CT); 3—Jones (R). 2m. 40.5s.
BREASTSTROKE: 1—Connor (CT); 2—Reed (CT); 3—Schmidt (R). 2m. 59.3s.
440 FREE STYLE: 1—Houser (CT); 2—Scott (R); 3—Wymmer (CT). 5m. 49.7s.
RELAY: Won by Caltech. 4m. 4.8s.

Campus Interviews on Cigarette Tests

Number 17... THE OWL

"So I'm a wise guy
—so what?"



"Speotyto cunicularia"—*Speo*, for short, majors

in the classics. But in this case, he's dropped his Latin leanings and slings American slang with the best of them. He comes right out

"cum loudly" whenever he voices his opinion on these quick-trick,

one-puff cigarette tests. They're a snub to his high I.Q.

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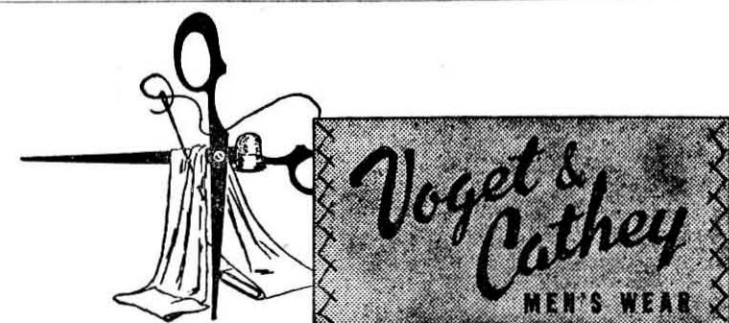
Ricketts—Rich Smyth
Fleming—John Marion
Al Pitton
Dabney—Gutierrez
Blacker—Ken Lunan

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