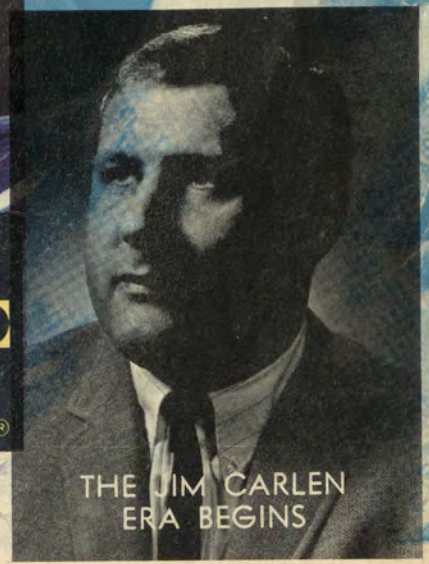


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Texas Tech Football '70

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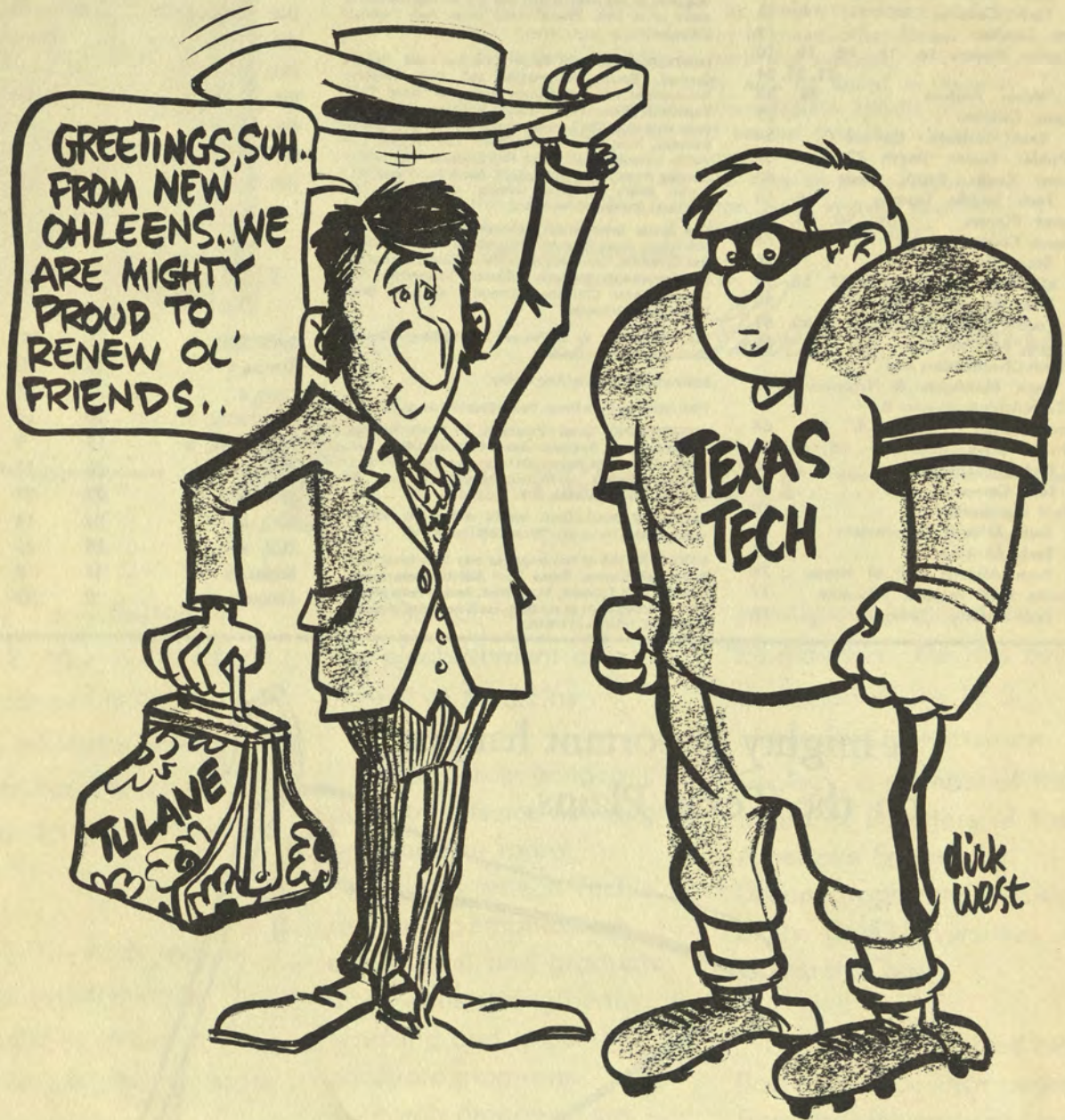
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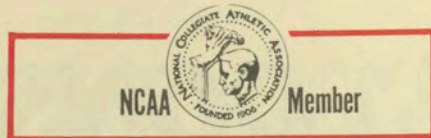


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EXTRA COPIES of this magazine may be ordered from Sports Information, Texas Tech Athletic Department, P.O. Box 4199, Lubbock, Texas 79409. Send 50 cents plus 25 cents to cover costs of mailing. You'll be giving pleasure to yourself, relative or friend!

Raider '70 Schedule

Sept. 12 Tulane	Lubbock, 7:30 p.m.
Sept. 19 Kansas	Lawrence, 1:30 p.m.
Sept. 26 Texas	Lubbock, 7:30 p.m.
Oct. 3 UC S. Barbara	Lubbock, 7:30 p.m.
Oct. 10 Texas A&M	College Sta., 7:30 p.m.
Oct. 17 Miss. State	Jackson, 7:30 p.m.
Oct. 24 SMU*	Lubbock, 2 p.m.
Oct. 31 Rice	Houston, 7:30 p.m.
Nov. 7 TCU**	Lubbock, 2 p.m.
Nov. 14 Baylor	Waco, 2 p.m.
Nov. 21 Arkansas	Lubbock, 2 p.m.

Raider '69 Results

	(5-5)		
OPPONENT	TT	OPP	ATTN
Kansas, h	38	22	42,250
Texas, v	7	49	65,200
Okla. State, v	10	17	28,500
Texas A&M, h	13	9	49,000
Miss. State, h	26	30	34,000
SMU, v	27	24	27,465
Rice, h	24	14	38,500
TCU, v	26	35	25,278
Baylor, h	41	7	32,000
Arkansas, v	0	33	45,000

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We of the Texas Tech University faculty, staff and student body cordially welcome you to our campus and to this sports event.

We are proud of our intercollegiate athletic program and feel that it is a vital part of our overall educational process. It would be virtually impossible to continue without the strong support received from thousands of sports fans by their attendance and by their generous contributions in many other forms. We will continue to strive to merit that support.

Texas Tech University and its Board of Regents believe that a vigorous intercollegiate athletic program should be maintained, and we feel that this is a policy sports enthusiasts will endorse.

We hope you will take time on this occasion and others to visit this institution, make yourself acquainted with its facilities and offerings, and call upon us for additional information.

Please come back often.

Grover E. Murray



THE PRESIDENT

Texas Tech President Grover E. Murray has been described as "a forward-looking educator who prepares for the future by building dynamically in the present."

Now in his fifth year as chief administrator, he has sought to improve the quality and widen the scope of educational opportunities available to Tech's 20,000 students through such bold and innovative programs as the International Center for Arid and Semi-Arid Land Studies, the implementation

of a School of Law and the establishment of a School of Medicine.

Expansion in academic departments and new degree programs in many disciplines reflect Tech's increasing emphasis on upper level and graduate work while strengthening its teaching and undergraduate programs. Research programs are enhancing the university's reputation, both in the United States and abroad.

A geologist of international stature, Dr. Murray serves on the Board of Directors of the

prestigious National Science Foundation. He has been chairman of the U. S. National Committee on Geology, a member of the Board of Directors of the American Society for Oceanography and president of the Gulf Universities Research Corp.

Dr. Murray received his Bachelor of Science degree from the University of North Carolina in 1937, his Master of Science from Louisiana State University in 1939 and his doctorate from the same institution in 1942. Before joining Tech he was vice-president for academic affairs at LSU.

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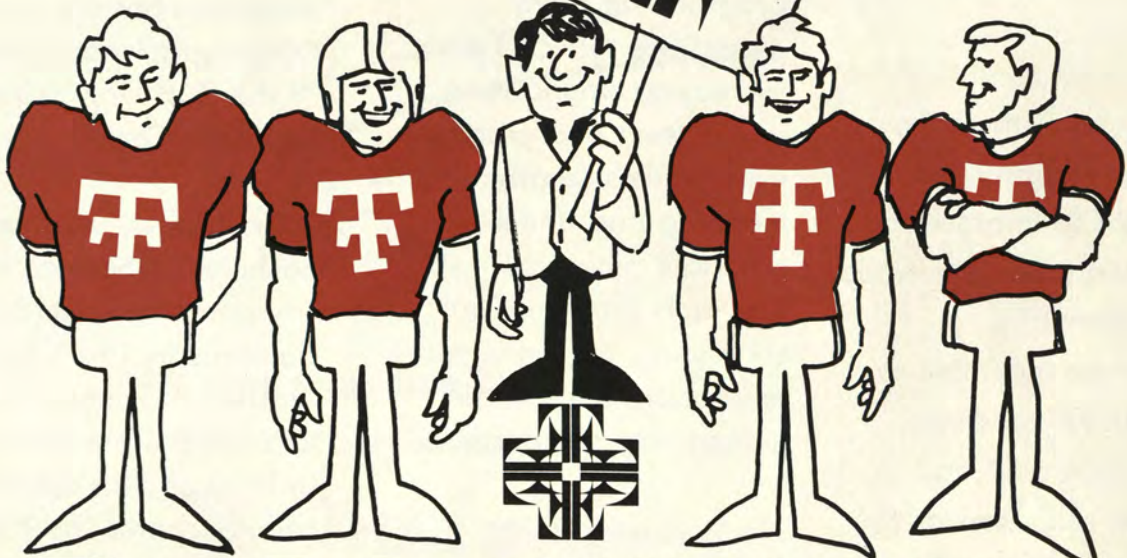
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1970 NCAA TV Schedule



- Sept. 12 Stanford at Arkansas (night).
- Sept. 19 REGIONAL: Minnesota at Missouri; Florida State at Georgia Tech; North Carolina St. at North Carolina; Boston College at Villanova.
- Sept. 26 Penn State at Colorado.
- Oct. 3 Alabama at Mississippi (night).
- Oct. 10 Texas vs. Oklahoma at Dallas.
- Oct. 17 Notre Dame at Missouri.
- Oct. 24 REGIONAL: Penn State at Army; Minnesota at Michigan; Florida at Tennessee; Dartmouth at Harvard.
- Oct. 31 REGIONAL: California at USC; Nebraska at Colorado; South Carolina at Georgia; Holy Cross at Buffalo.
- Nov. 7 REGIONAL: Texas A&M at SMU; Purdue at Michigan State; LSU at Alabama; Washington at Stanford.
- Nov. 14 Four selected Regional Games.
- Nov. 21 Michigan at Ohio State; UCLA vs. USC (night).
- Nov. 26 Houston at Florida State.
- Nov. 28 Army vs. Navy; National Wild Card.
- Dec. 5 Arkansas at Texas (National). REGIONAL night games: Mississippi at LSU; Houston at Miami; Arizona at Arizona State; North Texas at Tulsa.
- Dec. 12 College Division Bowl Games.

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wife Ima and I both graduated here, and we're very
proud of the atmosphere of "newness" at Tech this
year. We hope you will enjoy yourself during the game
and that you will feel right at home.

Sincerely yours

A handwritten signature in black ink that reads "Preston Smith". The signature is written in a cursive style with a large initial "P".

Preston Smith
Governor of Texas



The Honorable Preston Smith
GOVERNOR OF TEXAS



OUT FRONT:

Majorettes Patsy Kempson (Dumas),
 Jeanine Hartnett (Dallas),
 Sheila Watkins (Waxahachie),
 Pam Grissom (Bovina),
 Barbara Specht (Fredericksburg),
 Debbie Wright (Tahoka),
 Janis Jones (Raton, N. M.),
 head majorette Diane Mayes (Farwell).

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DEAN KILLION

Mr. Dean Killion is Professor of Music and Director of Bands at Texas Tech University. His outstanding work has brought national recognition to the Tech Bands. He is the recipient of Lubbock's "Outstanding Salesman Award" as an ambassador of good will for the city and University. Current president of the Texas Bandmasters Association, Mr. Killion was honored this year with selection as a member of the elite American Bandmasters Association.

Being a member of the Tech Band is more than just being enrolled in class. It is an opportunity to be a part of college life, a chance to be one of the finest. A driving, aggressive marching band, it is one of Tech's prime boosters of Red Raider athletic teams.



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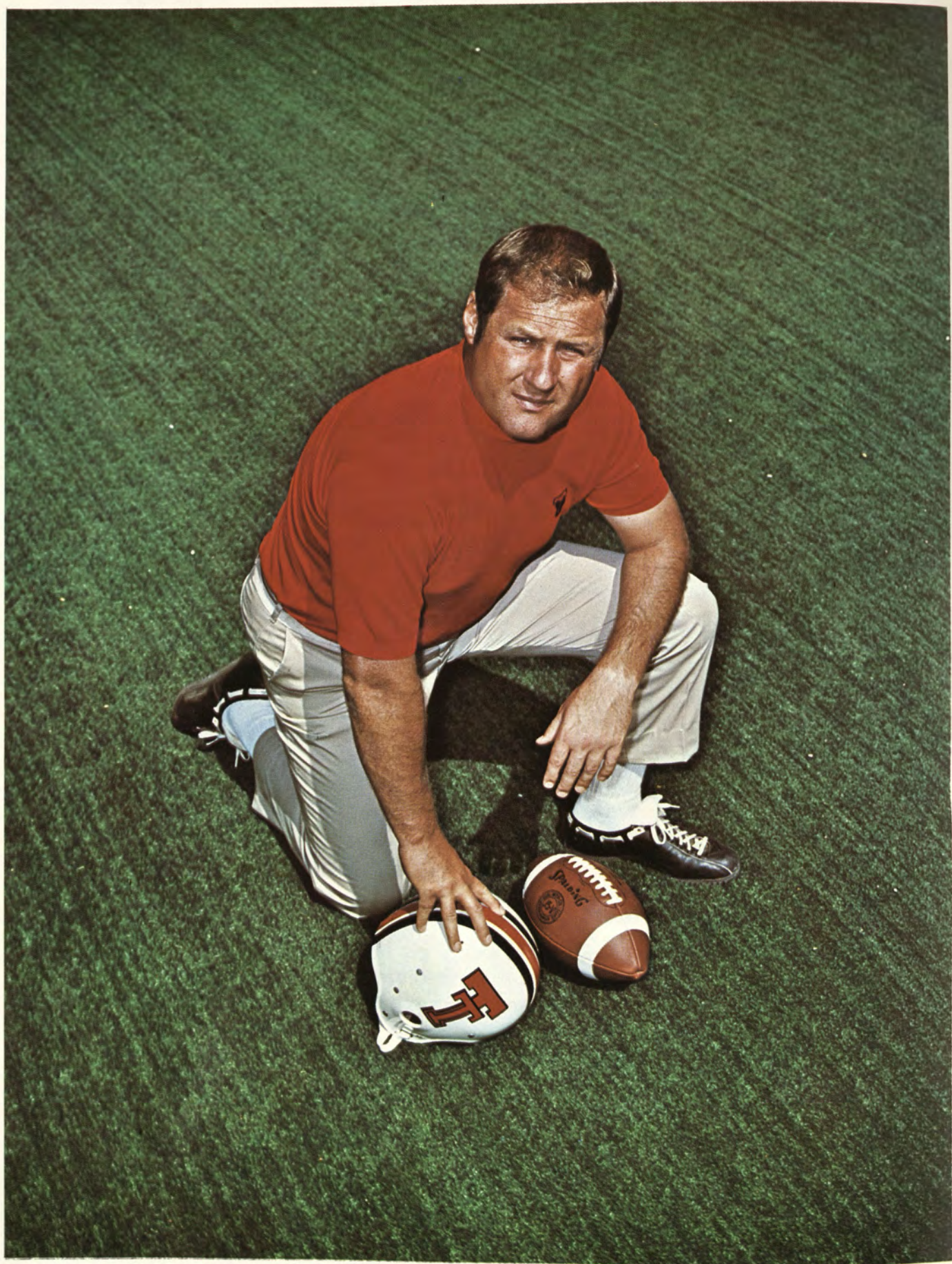


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Carlen Accepts Challenge For Raiders' Grid Future



Texas Tech University has turned its football fortunes over to the skillful guidance of one of the nation's youngest coaches — and one of the country's master organizers — 36-year-old Jim Carlen.

The young disciplinarian, who piloted West Virginia to a 10-1 record, including a 14-3 Peach Bowl win over South Carolina, has a career coaching record of 47-15-3, including a 25-13-3 mark in the past four seasons at West Virginia. The Mountaineers lost only one of the last 14 games, that to second ranked Penn State.

The secret behind the improvement during the past four seasons at West Virginia, according to the modest Carlen, was his assistants. He likes to say his "coaches do most of the coaching."

In truth, he's a master organizer.

Carlen hit West Virginia in 1966 and took the state by storm, causing one sportswriter to write, "Jim Carlen seems to be everywhere."

The secret behind Carlen's popularity is his boundless energy to "get with the people." He believes in seeking everyone's "help" as he draws. He invites fans to practice, puts on clinics for coaches and uses his television show to show films and explain things.

Despite his age, James Anthony Carlen has a lengthy background. He began playing organized football at the age of seven, played on every level through college, and coached at the high school, military service and collegiate levels. He played and coached under Bobby Dodd at Georgia Tech.

Carlen graduated from Georgia Tech in 1955 with a B.S. in industrial management and was assistant coach one year in his hometown of Cookeville, Tenn., where he produced a 9-1-0 record. He spent two years coaching an Air Force team at Weisbaden, Germany (22-2-1).

After military service, in which he eventually reached Captain in the Air Force, he returned to Georgia Tech in a part-time capacity as assistant freshman coach. Six years later, at the age of 30, he was head of the defense.

Carlen's decision to come to Texas Tech was based on several factors. He has stated that "all coaches are attracted to challenge and competition, two inseparable catalysts." He doubts "that any section of the country can match the Southwest Conference in availability of both." Carlen further stated "Texas Tech is a large and progressive university in an economically sound and athletically enthusiastic

region. Its football program has been solidly founded and well nourished through its Southwest Conference infancy. Not only was the opportunity it presented appealing to me, personally, but generally is recognized by football people everywhere."

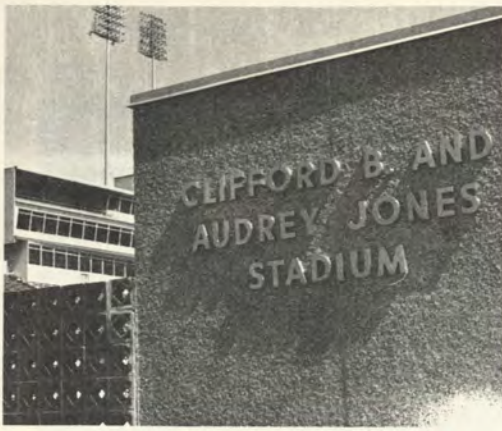
Carlen says recruiting in Texas may be the greatest challenge he has faced in his career as a head coach. "A Texas youngster, upon completing high school, can have his choice of at least a dozen outstanding football programs, all within his general proximity." However, he is not discouraged.

Carlen doesn't come to the Southwest Conference as a total stranger. Most of the other head coaches he has known for a number of years. When he was a freshman at Georgia Tech, Bo Hagan was his backfield coach. While he was on the varsity there Frank Broyles was the backfield coach.

Gene Stallings was an assistant coach at Alabama while Carlen was an assistant at Georgia Tech. He became acquainted with Fred Taylor while coaching a service team in Germany. Taylor and Abe Martin visited Germany at the time. He has been in several clinics with Hayden Fry and he and Bill Beall are close friends.

The football philosophy of Carlen is simple. To him, "a good football team is one that is sound and disciplined in fundamentals and one whose mode of attack, offensively and defensively, is adapted as closely as possible to the abilities of the personnel at hand." He doesn't think "any coach can arbitrarily decide he'll have a passing team or a running team. He must gear it according to the people who will be executing, and — whatever his attack — the team must block well and tackle well."





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EMERGENCY CALLS: The Public Address System will be used for emergency calls only. These may be placed by calling 742-4141.

Incoming calls for doctors are accepted at 762-9759. Doctors' "numbers" will be called on the PA system, and may be answered at telephone at elevator entrance west stand.

PUBLIC TELEPHONES: Several booths are located on the ground level concourse in both east and west stands.

REST ROOMS: These are located on the ground level concourse at north and south ends of each of the stands.

LOST AND FOUND ARTICLES: These are taken to the Athletic Department offices immediately following the game. Persons should check here at that time and no later than Monday following a game. Offices are in building at south end of stadium on 6th Street.

CONCESSIONS: Refreshment service is provided on ground level concourse in both stands and throughout the stadium by professional concessionaires under contract with Texas Tech University. Only products of outstanding quality are offered. Official prices of these products are posted in the concession stands.

FIRST AID

Emergency First Aid station is maintained by American Red Cross at north end of stadium near the American Flag pole.

SAFETY PRECAUTIONS: A sizeable contingent of Lubbock and Campus police officers, assisted by parking lot attendants and stadium ushers, are on duty to assist in parking cars and seating fans. Your cooperation in following their directions will be beneficial to all. Aisles and concourses in the stadium are to be kept clear at all times. A carefully studied parking and traffic flow plan allows easy entry and exit from parking areas.

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LEON HARRIS has boosted Raider football fortunes musically since he suited out as a Tech bandsman in '37. Twenty-four years the "Voice of the Goin' Band".

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<p>MINNESOTA AT HOUSTON SAT. AUG. 22 - 8:30 p.m.</p> <p>GREEN BAY AT OAKLAND SUN. AUG. 30 - 5:00 p.m.</p> <p>N. Y. JETS AT DALLAS SUN. SEPT. 13 - 8:00 p.m.</p> <p>DALLAS AT PHILADELPHIA SUN. SEPT. 20 - 12:00 N</p> <p>N. Y. GIANTS AT DALLAS SUN. SEPT. 27 - 1:00 p.m.</p> <p>*DALLAS AT ST. LOUIS 1:00 p.m.</p> <p>*MINNESOTA AT GREEN BAY SUN. OCT. 4 - 3:00 p.m.</p> <p>*ATLANTA AT DALLAS 1:00 p.m.</p> <p>*SAN FRANCISCO AT LOS ANGELES SUN. OCT. 11 - 3:00 p.m.</p> <p>*DETROIT AT CLEVELAND 12:00 N</p> <p>*DALLAS AT MINNESOTA SUN. OCT. 18 - 3:00 p.m.</p> <p>*ST. LOUIS AT N. Y. GIANTS 12:00 N</p> <p>*DALLAS AT KANSAS CITY SUN. OCT. 25 - 3:00 p.m.</p> <p>PHILADELPHIA AT DALLAS SUN. NOV. 1 - 1:00 p.m.</p>	<p>DALLAS AT N. Y. GIANTS SUN. NOV. 8 - 12:00 N</p> <p>SAN FRANCISCO AT HOUSTON SUN. NOV. 15 - 1:00 p.m.</p> <p>*DALLAS AT WASHINGTON 12:00 N</p> <p>*ST. LOUIS AT KANSAS CITY SUN. NOV. 22 - 3:00 p.m.</p> <p>GREEN BAY AT DALLAS THURS. NOV. 26 - 2:30 p.m.</p> <p>*MINNESOTA AT N. Y. JETS 12:00 N</p> <p>*LOS ANGELES AT SAN FRANCISCO SUN. NOV. 29 - 3:00 p.m.</p> <p>CHICAGO AT MINNESOTA SAT. DEC. 5 - 12:15 p.m.</p> <p>*ST. LOUIS AT DETROIT 12:00 N</p> <p>*WASHINGTON AT DALLAS SUN. DEC. 6 - 3:00 p.m.</p> <p>DALLAS AT CLEVELAND SAT. DEC. 12 - 12:15 p.m.</p> <p>PHILADELPHIA AT WASHINGTON SUN. DEC. 13 - 12:00 N</p> <p>*LOS ANGELES AT N. Y. GIANTS 12:00 N</p> <p>*SAN FRANCISCO AT OAKLAND SUN. DEC. 20 - 3:00 p.m.</p>
---	--

*DOUBLEHEADERS

TECH ENTERS CARLEN ERA

Carlen makes no hard and fast promises about the 1970 season. "Right now," he says, "what we intend to do is beat the teams we are supposed to beat and play well enough against the others to come up with an upset or two."

"Our kids are average to good. I don't think we have many superlative types. Carlen, commenting how the situation at Tech differs from the one he took over at West Virginia four years ago states it rather simply: "We have more athletes here. At West Virginia, we had four football players when we started out. We have more than that here, but it all about balances out. This is a much tougher league."

CARLEN'S RECORD

	W	L	T	Pct.
Air Force (Weisbaden, Germany)	22	2	1	90.0
West Virginia University				
1966	3	5	2	40.0
1967	5	4	1	55.0
1968	7	3	0	70.0
1969	10	1	0	91.0
College Totals	25	13	3	66.3
Overall Total	47	15	4	74.2

(1969 total includes 14-3
Peach Bowl win over South
Carolina)

It must be said that Carlen is an optimist. As he says, "It stands to reason that, had I not expected to do well here at Texas Tech, I never would have accepted the offer. I know I didn't make the wrong decision. I'm looking forward to the challenges and competition of Southwest Conference football."

Carlen is married to Sharon Garner of Alcoa, Tennessee. Their family includes Mollianne, 7; Jamie (James Anthony Carlen IV), age 5; and Melanie, 2.



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RICHARD BELL, former University of Arkansas star, is the head defensive coach. Bell graduated in 1958 and starred for three years at offensive and defensive end. He was a Razorback co-captain. Bell coached from 1964-67 at Georgia Tech. He and his wife Marilyn have two children: Michelle, 5; and Meredith 2.

BOB BROWN, Tech's defensive line coach, is a graduate of William and Mary College. He has 10 years of coaching experience in the junior high, service, and college levels. He joined Carlen at WVU after a stint at Davidson. He and his wife Kay have two children: Sherry, 8; and Scott, 5.

ART BAKER, offensive backfield coach, comes to Texas Tech from Clemson where he was an assistant for five years. He graduated from Presbyterian College in 1953. He played quarterback and halfback and earned two letters. Baker and his wife, Edie, have four children: Artie, 15; Kim, 14; Ryan, 7; and Curtis 5.

ROBERT BISSELL is Texas Tech's football trainer. He joined Jim Carlen at West Virginia after serving as assistant trainer for the New Orleans Saints. He was head trainer at Eastern Illinois from 1966-68. Bissell played freshman and sophomore football at Illinois.

JOHN CONLEY, who works with the offensive line, has been an assistant at Tech since 1961. He joined J T King's staff that year after compiling a 81-33-4 record at the high school level. Conley and his wife Ruth have one son, John, now serving in the Navy.

CARLEN'S STAFF



ART BAKER
Assistant Coach



RICHARD BELL
Assistant Coach



ROBERT BISSELL
Trainer



BOB BROWN
Assistant Coach



JOHN CONLEY
Assistant Coach

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DALE EVANS, Carlen's defensive secondary coach, is a graduate of West Virginia, where he made the WVU team as a volunteer from the student body. After a successful high school coaching stint he was Dean of Men at Salem College before joining Carlen at WVU. He and his wife, Joann have two sons: Kelly, 10; and Tracy, 6.

JACK FLIGG is Tech's offensive line coach. He played center and linebacker at Auburn. He compiled a 39-14-8 high school record and then joined the Georgia Tech staff as freshman coach. From there he joined Carlen's staff at WVU. Fligg and his wife, Jonell, have two daughters: Terry, 14; and Joanna, 2.

JIMMY RAGLAND is Tech's quarterback coach. He was an All-American quarterback under Carlen at Cookeville, Tenn., Central HS. Ragland played football at Tennessee Tech, where he set nine school records at quarterback. He joined Carlen's staff at WVU and served as chief scout. He and his wife, Linda, have one son, Robert, 18 months.

JESS STILES, who compiled a record of 56-38-3 during his high school coaching career, works with Tech's defensive interior line. Stiles coached at Borger and Wichita Falls Hirschi before coming to Tech as freshman coach in 1969. Stiles and his wife, Treva, have three children: Susan, Stephen, and Sara.

MARSHALL TAYLOR is the offensive end coach for Texas Tech. He was an all-Ohio Valley Conference end at Tennessee Tech and returned to Tech as an end coach in 1962. A native of Rockwood, Tenn., Taylor is married to the former Bobbie Copeland of Cookeville.

TOM WILSON, who works with Tech's offensive backfield, holds most of Tech's passing records. Wilson teamed with All-America Donnie Anderson to pace Tech to an 8-2 record and a Gator Bowl berth in 1965. After graduation he joined J T King's staff as quarterback coach. He and his wife Daun, have two children: Randall Mark, 6; and Julie Diann, 2.



DALE EVANS
Assistant Coach



JACK FLIGG
Assistant Coach



JIMMY RAGLAND
Assistant Coach



JESS STILES
Assistant Coach



MARSHALL TAYLOR
Assistant Coach



TOM WILSON
Assistant Coach

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RAIDER SENIOR SKETCHES

81 BRUCE DOWDY, DE, 213, 6-4, 21, Sr/2L, Pasadena—A two-year starter at defensive end and one of the top defensive players in the SWC . . . as a soph was named to some all-conference teams . . . named by AP as the defensive player of the week in 1968 for his play in the Texas game . . . was the outstanding lineman in spring drills in 1969 . . . intercepted one pass last season and returned in 20 yards . . . as a frosh caught one pass for 62 yards . . . in high school was all-district offense and defense . . . nickname is "Bob" and "Wolfmar" . . . has 17½ neck and 11-D shoe . . . runs 40 in 4.8 . . . hobby is surfing . . . has two brothers . . . favorite food is steak and French fries . . . b. 5-9-49, Pasadena . . . Bob Barfield HS coach . . . Physical Education.

44 DAVID MAY, SE, 188, 6-0, 22, Sr/2L, Amarillo Palo Duro—Has the fifth best carrier receiving mark in Tech history with 646 ards on 37 catches . . . will battle Ronnie Ross for starting split end honors . . . May has established his receiving mark without the benefit of starting most of the games . . . last year gained most yards receiving and was third in receptions . . . was second leading receiver as a sophomore . . . after redshirting as a true soph was selected by coaches as most improved player in 1968 spring drills . . . also broad jumps for Tech track team . . . in high school lettered three times in football, basketball, and track . . . all-district . . . is married to the former Maureen Kay, no children . . . has size 16 neck and 10-D shoe . . . runs 40 in 5.0 . . . hobbies are swimming, tennis, and skiing . . . has one brother and two sisters . . . b. 9-18-47, Memphis, Texas . . . John Reddell HS coach . . . Physical Education major, History minor.

6 MARK HAZELWOOD, C, 226 6-4, 21, Sr/2L, Amarillo Tascosa—One of the top centers in the Southwest Conference . . . shared starting duties as a sophomore and was a starter as a junior . . . was selected by coaches as most outstanding lineman in spring drills in junior year . . . president of the Double T Association . . . was co-captain of freshman football team . . . in high school earned three football letters . . . was all-district, all-regional, and second team all-state in 1967 . . . played for Texas against Pennsylvania in the Bag 33 Game . . . Tascosa's record while he played was 33-3-1 . . . nicknamed "Granny" and "Pale" . . . has a tendency to sleepwalk . . . has size 17 neck and 11½-E shoe . . . runs 40 in 5.3 . . . hobbies are reading and hunting . . . has one sister . . . is engaged to be married Thanksgiving . . . favorite foods are spaghetti and lemon pie . . . b. 8-8-49, Liberal, Kan. . . Pat Patterson HS coach . . . Accounting.

33 LARRY HARGRAVE, RB, 200, 6-1, 21, Sr/2L, Cisco—Missed most of last season due to knee injury . . . first injured knee during spring before junior season and underwent operation . . . one of the top breakaway threats on ball club . . . if knee heals will challenge for starting halfback position . . . one of the fastest men on club with 4.7 speed in 40 . . . has run 4.6 . . . as frosh was second leading rusher with 110 yards on 24 carries . . . in high school earned four letters in track and basketball and three in football . . . all-district football three years . . . all-regional basketball . . . past vice president of Tech chapter of Fellowship of Christian Athletes . . . as size 17 neck and 11-D shoe . . . three brothers and one sister . . . favorite foods are steak and strawberry shortcake . . . b. 5-15-49, Ranger . . . Manning Davis HS coach . . . Industrial Management.

58 MARK FINCANNON, LB, 211, 6-0, 23, Sr/1L, Beaumont—Was set to start at linebacker last season before knee injury and subsequent operation forced him out for the year . . . played as a soph . . . as a freshman played end on offense and defense . . . nicknamed "Raisin" . . . in high school earned two football letters . . . all-city and honorable mention all-district . . . has size 17 neck, 10½-D shoes . . . runs 40 in 5.1 . . . hobbies are golf and surfing . . . has one brother . . . favorite foods are shrimp and crab gumbo and strawberry shortcake . . . b. 5-25-49, Beaumont . . . Darrell Shaver HS coach . . . Finance.



At the English building:
from left,
Charles Stewart, Bobbie
Best, Johnny Odom,
David May, and Ronnie
Ross.



At the Business Administration Building: from the left, Larry Molinare, Bruce Dowdy, Tom Newton, Seaton, Marc Fincannon, Mike Watkins, Reagan Young.



In front of new Athletic Dining Hall: from left, Larry Hargrave, Miles Langehennig, Danny Hardaway, John Kleinert, and Charles Napper.



The Amon G. Carter Plaza Fountain: from left, Ken Perkins, Marc Dove, Andy Hoyle, Lane Wade, Jerry Watson, Dale Rebold, Bruce Bushong.

70 **BOB MOONEY**, 222, 6-2, 21, Sr/2L, San Marcos—Played offensive guard as a sophomore and defensive guard as a junior and now is slated to start at defensive tackle . . . made the all-SWC freshman team at tackle . . . in high school earned four letters in football and track and two in basketball . . . in football was twice all-district, twice all-Central Texas, twice all-state, and once honorable mention all-America . . . football team went to state finals in 1964, semi-finals in 1965 and 1966 . . . basketball team won state title in 1964 . . . played on the Texas all-star team that beat the Oklahoma all-stars that featured Tech teammates Danny Hardaway and Ernie Sheppard . . . national honor society and top 10 per cent of his graduating class . . . nicknamed "Rollo" . . . size 17½ neck and 11-D shoe . . . hobbies are skiing, fishing, and hunting . . . has one sister . . . b. 3-7-49, San Antonio . . . Owen Goodnight HS coach . . . Business major.

71 **WAYNE McDERMAND**, DT, 222, 6-4, 22, Sr/2L, Beaumont—Shared starting duties as a sophomore with Leon Loveless, started last year as a junior, and is slated to start this season at defensive left tackle . . . consistent performer . . . in high school earned two football letters . . . was all-district in 1966 . . . size 17 neck and 12-D shoe . . . runs 40 in 5.2 . . . hobbies are hunting and fishing . . . has one brother and two sisters . . . favorite foods are Mexican food and banana pudding . . . b. 10-16-47, Beaumont . . . Darrel Shaver HS coach . . . Finance major

RAIDER SENIOR SKETCHES

50 **JIM DYER**, DG, 216, 6-2, 21, Sr/2L, Dallas Highland Park—Is slated to start at middle guard this fall after a good spring . . . ranked number one after spring drills . . . played defensive end as a sophomore, defensive tackle as a junior . . . is the cousin of former Tech quarterback John Scovell . . . coaches rate him a top prospect . . . runs 40 in 5.0 . . . in high school earned three letters in football . . . in 1966 was all-district, all-regional, and second team all-state . . . football captain . . . drove cab in Honolulu this summer . . . b. 6-6-49, Dallas . . . Tugboat Jones HS coach . . . Business.

27 **LANE WADE**, DB, 172, 5-11, 22, Sr/2L, Abernathy—Played quarterback as a freshman and sophomore, flanker as a junior, and as slated to play defensive back as a senior . . . one of the fastest men on the team, running a 4.6 40 . . . last season caught 8 passes for 72 yards . . . returned two kickoffs for 32 yards . . . as a sophomore completed three of six passes for 25 yards and one TD . . . rushed 14 times for 97 yards and was one of the leading kickoff return men in the SWC with 19 returns for 392 yards . . . in high school earned four letters in track and three in football, basketball, and baseball . . . was all-district twice and all-regional in football . . . and all-district basketball . . . went to state in track . . . size 15½ neck and 10-B shoe . . . has one brother and one sister . . . favorite foods are enchiladas and chocolate pie . . . b. 4-22-58, Hale Center . . . Don Walliams HS coach . . . Physical Educational major, English minor.

23 **JERRY WATSON**, DB, 197, 6-4, 21, Sr/1L, Ranger—Saw spot starting duty as a sophomore and was a regular last season in the defensive backfield . . . will start this season at right cornerback . . . last season intercepted two passes and returned them 37 yards . . . one of the fastest men on the team with 4.6 speed . . . should bid for conference and national honors . . . as a freshman played quarterback and was leading rusher and scorer, and second leading passer . . . in high school earned four basketball and track letters and three in football . . . in football was twice all-district, twice all-regional, and all-state . . . in basketball was twice all-district, twice all-regional, and all-state . . . in track was all-district twice, all-regional twice, and all-state . . . size 16 neck and 11-D shoe . . . hobbies are rodeos, horse riding, golf, and skiing . . . has one brother and three sisters . . . favorite foods are steak and potatoes and strawberry shortcake . . . b. 8-22-49, Ranger . . . Gerold Cumpton HS coach . . . Physical Education major, Speech minor.

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At the Tech Union: standing, Jerry Ryan, David Browning; seated, Jesse Richardson, Mark Hazelwood, and Phil Barney.

75 JESSE RICHARDSON, OT, 187, 6-2, 21, Sr/2L, Alice William Adams—This season is expected to battle for starting offensive tackle position . . . last year played both center and offensive guard, alternating with Mark Hazelwood . . . usually snapped on punts and extra points . . . one of the toughest competitors on team . . . in high school earned three football and one track letter . . . all-district center and linebacker . . . size 17 neck and 10½ shoe . . . has one brother . . . favorite foods are shrimp and custard pie . . . high school team won three district championships . . . b. 12-25-48, Hondo . . . John Linville HS coach . . . Management major.

46 CHARLES STEWART, F, 181, 6-1, 21, Sr/1L, Kennedy—Played halfback as a sophomore and was switched to flanker last season . . . as a sophomore caught one pass for seven yards and a TD . . . also rushed four times for 20 yards . . . in high school earned four letters in basketball and track and three in football and baseball . . . in football was all-district twice, and all-regional . . . in basketball was all-district three years, and all-state twice, and all-Southern . . . size 16½ neck and 10½-C shoe . . . hobbies are weight lifting and horses . . . has two sisters . . . favorite foods are steak and French fries and cherry pie . . . b. 10-11-48, Poteet . . . Larry Kiesling HS coach . . . Physical Educational major, History minor.



83 TOM NEWTON, DE, 215, 6-2, 27, Sr/1L, Athens—Played offensive guard last season but was switched to defensive end in the spring . . . one of the strongest players on the team . . . also the oldest at 27 having served in the Navy . . . played junior college ball at Henderson County Junior College where he was all-conference . . . at Cypress-Fairbanks High School lettered in football, basketball, and baseball . . . b. 12-8-42, Palestine . . . Physical Education.

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RUSSELL INGRAM



CEDRIC JONES



GARY KENNEDY



ANDY LOWE



HAROLD LYONS



DOUG McCUTCHEN



JERRY MILLER

84. GAINES BATY, DE, 197, 6-0, 20, So/Fn—Garland South Garland—Second leading rusher on last year's frosh team with 30 carries for 134 yards and a 4.5 average per carry . . . third leading receiver with seven catches for 131 yards, an 18.8 yard average . . . was freshman co-captain . . . in high school was all-district, all-regional, and honorable mention all-state . . . has run 4.8 40 . . . his hobbies are hunting, eating and sleeping . . . O'Day Williams, HS coach.

41 HARRY CASE, TE, 194, 6-1, 30, So/Sq—Tulsa, Okla.—Redshirted last season . . . was running number two tight end at end of spring drills behind Johnny Odom . . . in high school three football letters, one basketball letter . . . all-district, all-regional, and runs 40 in 5:1 . . . hobbies are horse raising and racing . . . Bill Eubanks HS coach . . . Finance major, management minor.

80 DAVIS CORLEY, DE, 6-3, 201, 20, So/Sk—Bronte. Redshirted last season but is slated to start at defensive end this fall . . . in high school four letters in football, three in track . . . in football was all-district three

years, all-area two years, and all-state in 1968 . . . in basketball was all-district twice and all-area twice . . . football captain three years . . . all-regional track in 1968 . . . Cecil Toliver HS coach . . . Physical Education.

35 DON CROCKER, RB, 192, 6-0, 20, So/Sq—Tulsa—Redshirted last season but was impressive in spring drills and will battle for starting halfback spot . . . good speed . . . in high school earned three letters in football, basketball and track . . . all-district football 1966 and 1967 . . . was state finalist in choir and regional all-star cast in drama . . . Richard Souter HS coach . . . Pre-Law major, Physical Education minor.

63 MILTON HIBLER, OG, 216, 6-1, 23, So/Sq, Wichita Falls Hirschi—Is slated to start at the quick guard spot after impressive spring . . . graduated from high school in 1964 . . . played freshman football at Tech and enlisted in the Army where he served three years . . . came back to Tech last season and redshirted . . . served in Vietnam . . . in high school was all-district in 1963 and 1964 . . . high school coach was Jess Stiles, now a Raider assistant . . . record while in high school was 25-9 . . . married and has no children . . . runs 40 in 4.9 . . . Business Management.

62 JON HILL, C, 206 6-1, 20, So/Sq, Grand Prairie—Hurt his knee at the first of spring drills and underwent operation . . . is expected to be the backup center behind Hazelwood . . . in high school earned two football letters . . . was all-district three years . . . is married to the former Martha Gilbert and has no children . . . runs 40 in 5.2 . . . Travis Rhodes HS coach . . . Business major.

82 HAROLD HURST, DE, 207, 6-3, 20, So/Sq, Lawton, Oklahoma—Is slated to back up senior Bruce Dowdy at the defensive end spot . . . had good freshman year in 1968 and was redshirted last year . . . in high school earned two football and one basketball letters . . . was all-conference, all-area, and all-state alternate in football . . . named all-area lineman of the year . . . in basketball was all-conference . . . Orval Bowman HS coach . . . Finance.

10 DICKY INGRAM, Kicker, 195, 6-0, 20, So/Fn, Amarillo Tascosa—Will handle field goals, extra points, and kickoffs . . . as a freshman last season kicked 5 of 7 extra points and 2 of 4 field goals for 11 points . . . punted 27 times for a 40.2 average, a Tech freshman record . . . longest punt, 61 yards and longest field goal was 40 yards . . . barely missed a 53 yarder when the gun sounded that would have given Tech's freshmen a win over Arkansas in the Khiva Shrine Game . . . in high school earned three letters in football and baseball . . . was all-district in football . . . all-district twice in baseball and all-state American Legion . . . runs 40 in 5.1 . . . John McGuire HS coach . . . Pre-Law major, finance minor.

65 RUSSELL INGRAM, OG, 217, 6-4, 18, So/Fn, Garland South Garland—Is running number two quick guard but could battle for starting spot . . . was impressive in spring drills and is a top prospect . . . in high school earned two football and three track letters . . . all-district football . . . all-district and all-regional track . . . has size 17½ neck and 13-E shoe . . . runs 40 in 5.0 . . . has one sister . . . favorite foods are peanut butter and jelly sandwiches and strawberry shortcake . . . b. 10-12-51, Dallas . . . O'Day Williams HS coach . . . Business.



JERRY REYNOLDS



QUINTIN ROBINSON



DONALD RIVES



PAT ROGERS



TIM SCHAFFNER



GARY SHULER



GREG WATERS

74 CEDRIC JONES, DT, 201, 6-5, 19, So/Fn, San Antonio Brackenridge—playing number two left tackle but is expected to be outstanding prospect . . . will see considerable playing time . . . played both ways as a freshman and had good year . . . in high school earned two football letters . . . was all-district in 1967 and 1968 . . . high school record was 29-3 . . . football captain . . . runs 40 in 4.9 . . . Weldon Forren HS coach . . . Physical Education.

28 GARY KENNEDY, DB, 185, 5-10, So/Sq, Fort Worth Polytechnic—at the end of spring drills was running behind Jerry Watson at right cornerback . . . was redshirted last season . . . as a freshman was second leading receiver with five catches for 103 yards and one touchdown . . . in high school earned two letters in football, basketball, and baseball . . . was all-district football 1967 and all-district baseball in 1968 . . . runs 40 in 4.9 . . . James Brewer HS coach . . . Accounting.

75 ANDY LOWE, DE, 193, 6-2, 19, So/Fn, Wellington—Played halfback last season as a freshman and rushed for 63 yards on 19 carrier . . . set record in kickoff returns with seven for 126 yards . . . scored two touchdowns . . . good speed . . . in high school earned three letters in football and basketball, and two in track . . . was all-district in football and won the district 100-yard dash . . . football captain two years . . . runs 40 in 4.9 . . . Thaymen Amoneti HS coach . . . Physical Education major, History minor.

78 HAROLD LYONS, OT, 224, 5-11, 19, So/Fn, Lufkin Dunbar—Was a freshman starter last season and after spring drills was number two strong tackle behind Phil Barney . . . should see a lot of action in 1970 . . . is on the dean's honor list at Tech . . . in high school earned three football and track letters . . . in football was all-district offense and defense, two years, all-regional offense and defense two years, and all-state offense and defense in 1968 . . . Lufkin Dunbar won two state championships in AAA Prairie View Interscholastic League and was state runnerup in AA Texas Interscholastic League in 1968 . . . record while competing was 33-1 . . . football captain and class president . . . national merit semi-finalist . . . Elmer Redd HS coach . . . Architecture major.

55 JERRY MILLER, DG, 203, 6-0, 19, So/Fn, Fort Worth Arlington Heights—Had a good freshman year and will provide depth at defensive guard as a sophomore . . . in high school lettered twice in football and was all-district two years, all-regional one year, and honorable mention all-state . . . was captain two years, becoming the first junior in the history of the school to be elected captain . . . married to former Dolores Watson and the couple has one girl . . . Merlin Priddy HS coach . . . Administrative Management major, Physical Education minor.

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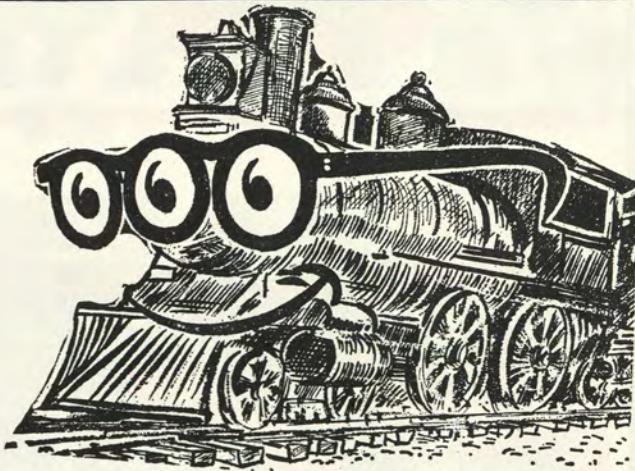


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RED RAIDERS

14 JERRY REYNOLDS, QB, 195, 6-3, 19, So/Fn, Spur—Will provide backup depth at quarterback . . . as a freshman completed two of 13 passes for 21 yards . . . also played some freshman basketball for Tech . . . in high school earned three letters in football, basketball, and track . . . all-district football and basketball . . . all-regional football and basketball, and all-state third team basketball . . . Dempsey Alexander HS coach . . . Physical Education major.

54 QUINTIN ROBINSON, LB, 213, 6-2, 19, So/Fn, Fort Worth Terrell—Will battle for starting linebacker spot . . . is expected to develop into one of the top linebackers in Tech history . . . leading tackler on freshman team last season . . . has good speed and quickness and nose for the ball . . . in high school earned one football letter, making all-district, all-regional, all-state, and honorable mention all-America . . . Clyde Tilman HS coach . . . Pre-Law major.

51 DONALD RIVES, DG, 202, 6-2, 19, So/Fn, Wheeler—At the end of spring drills was number two at middle guard but is expected to battle Jim Dyer for starting spot . . . in final spring game intercepted pass and ran for touchdown . . . has twin brother who also plays for Tech . . . played fullback in high school and earned four letters in football, basketball, and track . . . was all-district three years in both football and basketball and was all-state in football . . . scored 106 points and gained 1475 yards his senior year, and on defense was credited with 125 tackles . . . Jake Cottrell HS coach . . . History and Government major.

34 PAT ROGERS, RB, 187, 6-1, 20, So/Sq, Corpus Christi Ray—Has never gained a yard while at Tech due to an injury before the start of his freshman season, which also kept him out of action last year . . . is regarded as a good prospect with good speed . . . in high school earned three football and two track letters . . . brother Rick played golf for Tech from 1963 to 1965 and brother Ham is playing for the Red Raider golf team now . . . Dan Purcell HS coach . . . Business major.

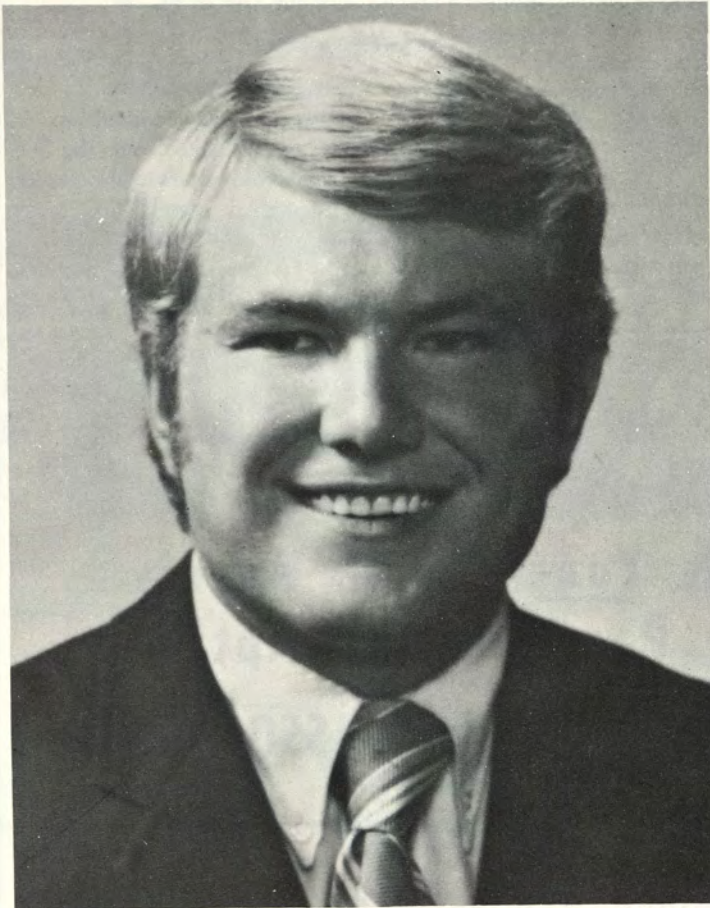
72 TIM SCHAFFNER, DT, 220, 6-2, 19, So/Fn, San Antonio Sam Houston—After spring drills was rated number two right defensive tackle behind Bob Mooney . . . had a good freshman year and is a top varsity prospect . . . in high school earned three letters in football and track . . . was all-district in football . . . Glen Crocker HS coach . . . Business major, Computer Science minor.

61 GGARY SHULER, OG, 204, 6-2, 20, So/Sq, San Antonio Sam Houston—Slated to back up Jerry Ryan at strong guard . . . in high school earned three basketball and two football letters . . . was all-district football 1968 . . . older brother Allen lettered in football at Tech from 1960 to 1962 . . . Mecon Smith HS coach . . . Physical Education major, Math minor.

32 DOUG McCUTCHEN, RB, 202, 5-11, 20, So/Sq, Bronte—Will battle for starting position . . . at end of spring drills was running number two at right halfback position . . . had good spring after redshirting in 1969 . . . may be the hardest runner on Tech team . . . as a freshman was second leading rusher with 149 yards on 37 carries . . . in high school earned four letters in football, basketball, and track . . . was all-district three years, and all-state twice . . . paced Bronte to a class B regional championship . . . Bronte's record while he competed was 305 . . . runs 40 in 5.0 . . . Cecil Toliver HS coach . . . Physical Education major, history minor.



**a salute
to a
leader...**



Here is Gary Harrod, Senior Banking major at Tech. He is the son of Mr. and Mrs. W. A. Harró, 2114 56th. Gary is the President of the Interfraternity Council, campus coordinating agency for social fraternities. He is a member of Phi Gamma Delta and was Corresponding Secretary for that fraternity in 1969. He belongs to Phi Eta Sigma, Men's Honorary. He was on the Student Senate last year and is now on the Tech Supreme Court. He has been on the Dean's list every semester.

Gary's favorite hobbies are golfing and snow skiing.

After graduation, he plans to go to Law School.

Best wishes and good luck to this talented and accomplished student, Gary Harrod.



Piggly Wiggly

On Record

Tennessee Tech had a broad jumper named Dimitrius Fragopolous from Thessalonica, Greece. Asked how he happened to be in this country, Tech publicist Grady Batten said, "He jumped."

—Jimmy Davy,
Nashville Tennessean

Joe Dienhart, assistant athletic director at Purdue University, says, "We had such a lousy team here several years

ago; we fumbled so much that once when the referee's half-dollar hit the ground our guy fell on it."

—Max Stultz,
Indianapolis Star

Carl DePasqua, head football coach, said when he first took over the Pitt job, "Someone told me to dial-a-prayer. When I identified myself they hung up on me!"

—Al Abrams,
Pittsburgh Post-Gazette



Freshman Schedules

SMU: Oct. 1—Arkansas at Texarkana, 8 p.m. Oct. 9—Rice at Houston, 7:30 p.m. Oct. 30—Texas at Dallas, 2 p.m. Nov. 6—Baylor at Dallas, 2 p.m. Nov. 20—TCU at Fort Worth, 2 p.m.

A&M: Oct. 7—TCU at Fort Worth, 7:30 p.m. Oct. 15—Baylor at Waco, 7:30 p.m. Oct. 29—Rice at College Station, 7:30 p.m. Nov. 5—Texas Tech at Lubbock, 7:30 p.m. Nov. 20—Texas at College Station, 7:30 p.m.

RICE: Sept. 25—Wharton JC at Houston, 7:30 p.m. Oct. 9—SMU at Houston, 7:30 p.m. Oct. 23—Texas at Austin, 2 p.m. Oct. 29—Texas A&M at College Station, 7:30 p.m. Nov. 13—Baylor at Houston, 2 p.m.

TEXAS: Oct. 8—Baylor at Austin, 2 p.m. Oct. 23—Rice at Austin, 2 p.m. Oct. 30—SMU at Dallas, 2 p.m. Nov. 13—TCU at Austin, 2 p.m. Nov. 20—A&M at College Station, 7:30 p.m. (starting times tentative)

TCU: Oct. 7—Texas A&M at Fort Worth, 7:30 p.m. Oct. 14—NTSU Eagles at Fort Worth, 7:30 p.m. Oct. 22—Baylor at Waco, 7:30 p.m. Nov. 13—Texas at Austin, 2 p.m. Nov. 20—SMU at Fort Worth, 2 p.m.

BAYLOR: Oct. 8—Texas at Austin, 2 p.m. Oct. 15—A&M at Waco, 7:30 p.m. Oct. 22—TCU at Waco, 7:30 p.m. Nov. 6—SMU at Dallas, 2 p.m. Nov. 13—Rice at Houston, 2 p.m.

TEXAS TECH: Sept. 19—New Mexico Military Inst. at Lubbock. Oct. 8—Arkansas at Little Rock. Oct. 26—Oklahoma at Lubbock. Nov. 5—Texas A&M at Lubbock. Nov. 12—UT-Arlington at Arlington. (All times to be announced later.)

ARKANSAS: Oct. 1—SMU at Texarkana, 8 p.m. Oct. 8—Texas Tech at Little Rock, 7:30 p.m. Oct. 15—Oklahoma State at Stillwater, 2:30 p.m. Nov. 5—North Texas at Denton, 7:30 p.m. Nov. 12—Tulsa at Fayetteville, 1:30 p.m.

Says Missouri Coach Dan Devine: "After a season has ended, I've longed to put a football under my arm and head toward Mexico. Across the border, I would keep going until someone came up to me and asked: 'What's that thing under your arm?' When that happened, there's where I would settle down to get a little rest."

—Fred Russell,
Nashville Banner

Latest crack from Michigan State University football coach Duffy Daugherty: "Some people are told 'you shoulda' been a doctor' or 'you shoulda' been a lawyer.' At Michigan State they say to me, 'you shoulda' been a coach.'"

—Fred Russell,
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This is Joe Bullard's 92-yard TD run of a punt return against Vanderbilt last season. It's mentioned in story.

Billed as 'Year of the Green' 1970 Could Be That for Tulane

By George Sweeney
(New Orleans States-Item)

Mike Walker, Greg Gleason, Rusty Lachaussee ...

Where the spinning wheel would stop nobody knew—not even Coach Jim Pittman.

Of the 22 positions on Pittman's peg board, quarterback was the only spot the Tulane football coach had to play the shell game before fall practice kicked off.

"I would have liked to have been more set on my starting quarterback in August," he said. "That was our main concern when practice started.

"We just didn't have anyone who was consistent enough to keep the No. 1 job."

That doesn't mean the Greenies are suffering at the signal calling post. To the contrary.

"We're in much better shape at quarterback than we were last year. ... we gave Walker, Gleason and Lachaussee an equal chance and it was Mike who won out.

"But Gleason and Lachaussee will see their share of duty."

Walker, who was knocked out of the spring game because of a slight shoulder separation, came on fast this spring. He showed no side effects from the injury and his running and passing have been superb.

With 20 of 22 starters returning, Pittman doesn't need a crystal ball to predict the Wave will reduce miscues.

"We made a lot of sophomore errors last season," he explained. "They say for every sophomore you use, you can count on one mistake ... we had more than our share."

Pittman enters his fifth season with more depth and talent seen on Willow Street since the Henry Frnka era. Tulane has 45 lettermen back of which 22 are seniors.

"It will probably feel a little strange to go to a third running back or a No. 3 lineman if we sustain any injuries, says Pittman. "We used four units last season and we will do the same this fall ... plus I feel we have more quality in our depth."



Winner of numerous writing awards in the Louisiana Sports Writers Association, George Sweeney has been covering Tulane football since he began his newspaper career with the New Orleans States-Item 13 years ago. In the most recent LSWA contest he captured four first places. Two winning stories just happen to be about Tulane football.

More on 53



Jim Pittman starts his fifth season as boss of the Green Wave this fall.

Architect of a thorough rebuilding program, Pittman will have his first "full" squad in 1970. He was hired two days before Christmas in 1965, after most of the recruiting for the 1966 Freshman teams had been completed.

Thus his first full year of recruiting was for the 1967 squad, and those players will be seniors this fall.

Pittman's first varsity squad posted a surprising 5-4-1 record in 1966, and the popular "Pitt" was named Louisiana College Coach of the Year and received several votes for the national Coach of the Year honors.

Loyal Tulane followers began dreaming that Pittman could rebuild the Green Wave overnight. But the record slid to 3-7 in 1967, 2-8 in 1968, and 3-7 in 1969 as the lack of depth began to tell.

Last year's record was accomplished with a sophomore-junior team against a backbreaking schedule. With nearly everybody back and a good bunch of sophomores coming up, Pittman should be ready to start reaping the rewards of his reconstruction program.

Recruiting has become the backbone of Pittman's football program. He and his staff started turning heads the first year when they personally contacted every high school coach in the state. Much of the ground work has been laid, and this energetic coach and his ambitious staff are hard at work the year 'round searching out the best possible talent to represent Tulane on the gridiron.

A native of Boyle, Miss., Pittman was an outstanding high school football and baseball player there. Following his graduation from high school, Pittman joined the U. S. Marines in December, 1943.

Pittman was stationed on the USS New Jersey, Flagship for the Seventh Fleet, for two years. He participated in five major operations, including Iwo Jima and Okinawa. Pittman was discharged in December, 1945, with the rank of Buck Sergeant.

He immediately enrolled at Mississippi State, and was a fullback and linebacker on the Maroons' grid teams from 1946 to 1949. Graduating in 1950, he coached at Carthage (Miss.) High that fall.



Full Name: James Noel Pittman
Joined Tulane Staff: December, 1965
Born: Aug. 28, 1925, Boyle, Miss.
College: BA Mississippi State, 1950

Pittman returned to Mississippi State in 1951 as assistant freshman coach under Slick Morton and Murray Warmath. Warmath elevated him to offensive line coach in 1953.

Pittman remained at Mississippi State

in 1954, when Darrell Royal became the head coach, beginning a long friendship and coaching association. Royal made Pittman defensive line coach.

Royal moved to Washington in 1956 and took Pittman along as offensive line coach and chief aide. A year later the two shifted to Texas in the same capacity. Pittman remained Royal's top assistant for nine years before coming to Tulane. In that span, Texas notched



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SMALL FISH specimens are collected in a six-foot deep bag seine 100 feet long by ANTHONY L. LASKA, Tulane University graduate student, and his fishing crew before being dumped into buckets for hauling back from the Chandeleur Islands to Tulane's Riverside Research Laboratories at Belle Chasse, La. From left are LASKA; JOHN H. CARUSO, Tulane graduate student; and DR. ROYAL D. SUTTKUS, professor of biology at Tulane.

"FISHING FOR SCIENCE"

The Chandeleur Islands in the Gulf of Mexico are the laboratories for a Tulane University graduate student who is fishing around for some new scientific facts.

Anthony L. Laska makes monthly trips to this string of islands located south of Gulfport and east of New Orleans. He goes there to collect various species of fishes that live in seagrass beds on the western side of the islands and entirely different populations on the sandy beach eastern side.

Purpose of his research as a candidate for a doctoral degree in biology at Tulane is to determine seasonal patterns of fishes in these areas that have



THE CHANDELEUR ISLANDS near New Orleans are the site of laboratory research for Anthony L. Laska, a Tulane University graduate student who is studying populations of small fishes. Shown here are large seines used by his research crew to net small fishes on the sandy beach eastern side of the islands.

not been carefully studied to date because of difficulty in reaching the islands.

Laska's study is a year-round project to determine which fishes inhabit the waters at what season, which remain throughout the year and an insight into their spawning habits. It also involves the relationship of ecological environment — temperature, salinity, bottom conditions, plant life and other water creatures — to population of smaller fishes.

The Tulane graduate student is primarily interested in smaller fishes and their methods of survival until they can grow large enough to go into deeper waters. These fishes, necessary for food for larger fishes, must be protected, however, if fish populations are to survive.

He is concerned with relationships of kinds of fishes that live in seagrass beds and those that live in sandy beach water because the marine community is not duplicated on either side due to differing conditions. Through study of day and night habits of many species, their migratory patterns at different times, growth rates, and other specifics, Laska is trying to determine the number and the importance of fishes in the region to give better understanding of fish preservation and necessity for unpolluted living conditions.

Laska and his crew set out on the monthly excursions in a large boat which must travel 30 miles southward from Gulfport, Miss., or 50 miles eastward from Empire, La., to reach the islands. There he transfers equipment and crew to a small boat which can navigate better in the shallow waters around the islands.

Then collecting of specimens begins. A six-foot deep bag seine, 100 feet long, is pulled along the beach and hauled to shore repeatedly. In the seagrass beds the small boat tows Laska's custom built six-foot wide beam trawl, a 20-foot long mesh bag trailing behind it to trap specimens.

His crew usually includes two of his professors, Drs. Royal D. Suttkus or Eugene Copeland, professors of biology at Tulane; A. T. Fitzjarrel, research associate in biology at Tulane; and C. O. DiNapoli, New Orleans sportsman.

On his recent trip to his island laboratories, Laska was successful in getting some 30 species, primarily the smaller ones in which he is most interested.

"The adults of one species were so small," Laska says, "that 1,600 could be put in a gallon jar."

Once the fishes are caught they are put into a "formalin" mixture to be stored until they can be brought back to the biology laboratory at Tulane's Riverside Research Laboratories, Belle Chasse, La. Here, Laska measures them each month with dial calipers to watch their growth and identifies each species.

He has already found that in the muddy seagrass beds are living pinfish, pipefish, small seahorses, flounder, stingrays and redfish. On the sandy beach side are various species of trout, silver perch, small sharks and channel mullet.

Initially, Laska is concerned with the volume of fishes in this area — those which serve as food for larger fish, and

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those which must be maintained if they are to survive. He is also interested in population distribution; the clean water which serves as the nursing ground for juvenile fishes; kinds of grasses in which the young can hide until maturity; the need to leave such areas undamaged industrially; and the association of plants and algae to the fish population.

The Chandeleur Islands make a perfect laboratory, Laska points out, because there are no coral reefs or other hiding places for young fishes except seagrass beds and sand. But in this part of the South, trying to keep up populations of fishes is vital not only to the fishing industry but to sportsmen as well, who angle year-round in this climate.

Certain species can survive almost anywhere, Laska says, but others must be protected.

Hopefully, results of Laska's study of fishes on these islands, a part of the Breton National Wildlife Refuge, will give clues to population preservation of the species which man needs and wants. And Laska is angling for these clues.

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These divisions are: the School of Architecture, College of Arts and Sciences, Graduate School of Business Administration, School of Engineering, Graduate School, School of Law, School of Medicine, School of Public Health and Tropical Medicine, School of Social Work, Newcomb College for Women, and University College, the evening and adult education division of the university.

Tulane's history dates from 1834 when seven doctors organized the Medical College of Louisiana, largely to fight the tropical diseases that ravaged the area. Thirteen years later this College became the medical department of the newly chartered, state-operated University of Louisiana and a law department was created. Four years later, a collegiate department, forerunner of the present College of Arts and Sciences, was added.

War closed the university in the early 1860's and the war's aftermath brought grave financial problems. In 1882 Paul Tulane, a wealthy New Orleans merchant, set up the Tulane Educational Fund to be administered by a 17-man self-perpetuating board. In 1884, the state legislature turned over the property and control of the University of Louisiana to this Board.

The university, now a private institution, was named The Tulane University of Louisiana in honor of its benefactor.

From these beginnings Tulane has grown steadily in the number of students and divisions. To its original offerings of medicine, law, and the liberal arts, graduate study was added in 1883, and engineering and architectural courses in 1884. These three programs have since expanded into separate degree-granting schools. Mrs. Josephine Louise Newcomb founded Newcomb College in 1886 as a memorial to her daughter, Harriott Sophie, who died at 15.

Newcomb was the first women's college in the country to be coordinated as part of a university. Tulane started its School of Business Administration in 1914; its School of Social Work in 1921; University College, the adult evening education division, in 1942; and its School of Public Health and Tropical Medicine in 1967.

In 1962, the university established the Center for Teacher Education.

Students at Tulane now number about 6,000 full-time and 2,000 part-time. They come from all 50 states and from more than 60 foreign countries.



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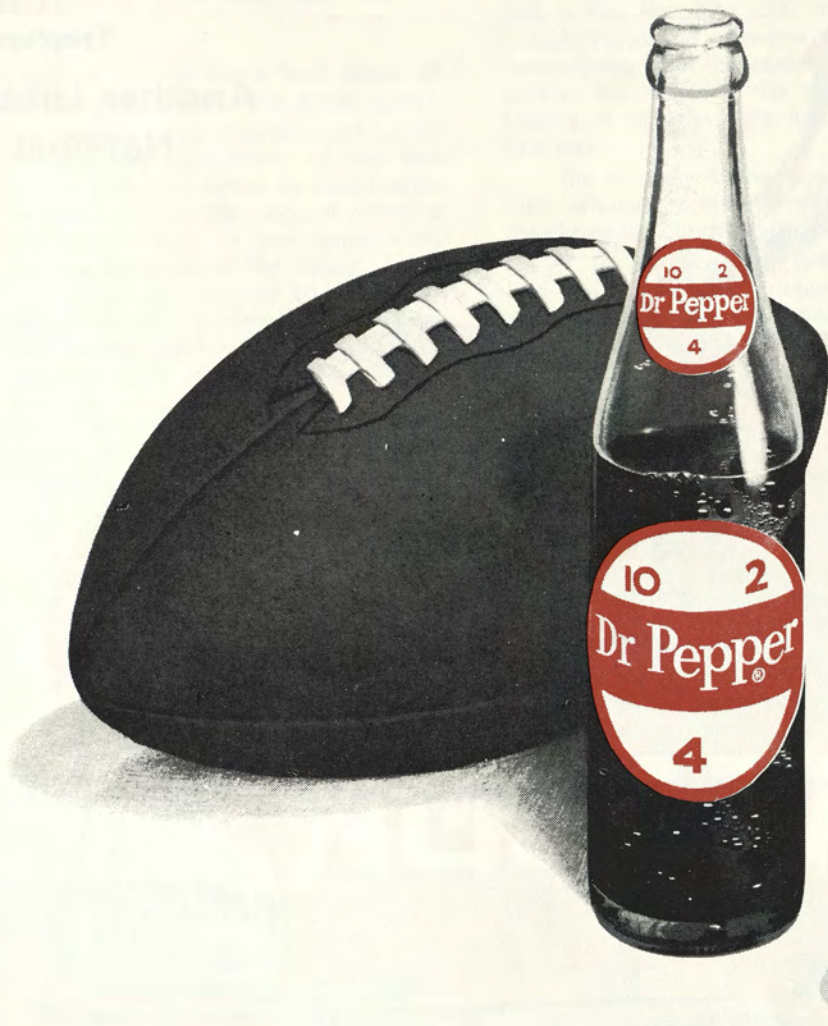
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The chairman of the Athletic Council at Texas Tech is T. L. Leach, who is the head of the agricultural education department. The faculty representatives, and the man who represents Texas Tech in Southwest Conference matters, is Dr. J. William Davis, a government professor at Tech. Davis is the reigning president of the Southwest Conference and Vice-President of the National Collegiate Athletic Association.

More on 48



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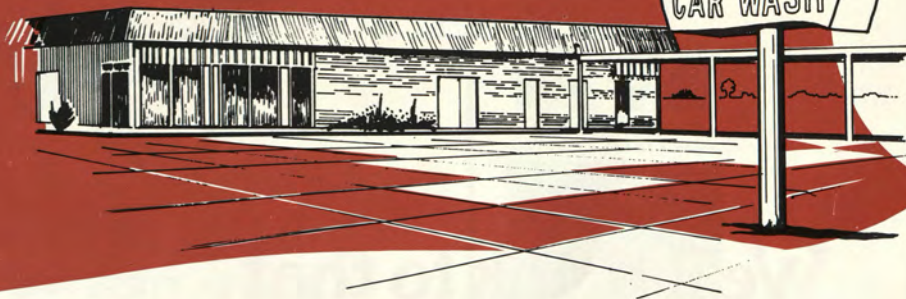
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North-South Attack Is the Tech Option

Burle Pettit, executive sports editor of the *Avalanche-Journal* and a member of the Board of Directors of the Football Writers of America, contributed the following concerning the new formation.

Jim Carlen showed up for his Texas Tech debut all decked out in football's latest fashion—the triple option.



PETTIT

Barely had Carlen announced formally his acceptance of the Red Raider grid helm when he bared plans to install at once the mode of offensive attack that has, in two years time, become the rage of the nation.

"What we run will be the 'Texas Tech Offense,'" Carlen said. "It will be our own adaptation of what Bill Yeoman has used at Houston and Homer Rice was using as Cincinnati. I feel it is the best offense going, simply because it is what I call a 'North-South' attack. You don't give up many great losses, simply because you are moving the ball ahead all the time."

Triple option. That tandem of wordage has, during recent times, become as familiar as single wing and tailback and quick kick once were. But what exactly does it mean?

Simply stated, it means just that. A quarterback leaves the center with the ball and has three alternatives, all of which are predicated not by his own action but by

the reaction of certain members of the defending team. For example:

The first thing that happens upon the snap of the ball is that the right half, in Tech's case, heads for the outside leg of the offensive right guard. The quarterback comes away from the center, opens slightly and "meshes" (places the ball into the right half's bosom without releasing it) with the right half and focuses his eye on the first key.

The first key is the first man to appear outside the right offensive tackle. What that defender does dictates the choice the quarterback will make.

If, for instance, that defender crosses or sits in position, the quarterback releases the ball to the right half, who heads immediately upfield. However, if that defender closes down into a tackling position, the quarterback withdraws the ball and looks for his second key.

The second key is the next man outside the first key, frequently a defensive end. If this defender comes down on the quarterback, he pitches back to the trailing left half. But, in the event that defender floats outside or does not commit at all, the quarterback keeps the ball and cuts upfield.

Simple? Really, it is. The key to a successful triple option attack is a quarterback with the ability to correctly read those two keys and to always give the ball to the right man at the right time.

That does not mean, however, that the triple option can not be snuffed out at the line of scrimmage. It can.

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10	Dickie Ingram, KS	So-fn	185	6-0	40	Johnny Odom, TE	Jr-1L	192	6-2	64	Jerry Ryan, OG	Jr-1L	250	6-5
11	Greg Waters, QB	So-fn	184	6-0	41	Harry Case, OE	So-sq	194	6-1	65	Tim Schaffner, OG	So-fn	220	6-2
14	Jerry Reynolds, QB	So-fn	195	6-3	42	Ronnie Ross, OE	Jr-1L	183	6-1	67	Marty Criswell, OG	Jr-sq	201	6-0
15	Charles Napper, QB	Jr-1L	185	6-0	43	Robbie Best, F	Jr-1L	189	5-11	69	Ike Thomas, C	So-fn	210	6-2
20	Andy Hoyle, DB	Jr-1L	181	6-1	44	David May, SE	Sr-2L	188	6-0	70	Bob Mooney, DT	Sr-2L	222	6-2
22	Bruce Bushong, DB	Jr-1L	170	5-11	46	Charles Stewart, OE	Sr-1L	181	6-1	71	Wayne McDermard, DT	Sr-2L	222	6-4
23	Jerry Watson, DB	Sr-1L	197	6-4	50	Jim Dyer, DG	Sr-2L	216	6-2	73	Tom Newton, DT	Sr-1L	215	6-2
24	Marc Dove, DB	Jr-1L	178	5-8	51	Donald Rives, DG	So-fn	202	6-2	74	Cedric Jones, DT	So-fn	201	6-5
25	Dale Rebold, DB	Jr-1L	180	6-2	52	Mike Watkins, LB	Jr-1L	200	5-10	75	Jesse Richardson, OT	Sr-2L	187	6-2
26	Ken Perkins, DB	Jr-1L	186	6-1	53	Larry Molinare, LB	Jr-1L	213	6-2	76	Phil Barney, OT	Jr-1L	225	6-4
27	Lane Wade, DB	Sr-2L	172	5-11	54	Quintin Robinson, LB	So-fn	213	6-2	77	David Browning, OT	Jr-1L	219	6-0
28	Gary Kennedy, DB	So-sq	185	5-10	56	Reagan Young, LB	Jr-1L	209	5-10	78	Gary Shuler, OT	So-sq	204	6-2
30	Miles Langehennig, RB	Jr-1L	196	5-11	57	Jerry Miller, DG	So-fn	203	5-11	79	Russell Ingram, OT	So-fn	217	6-4
31	Danny Hardaway, RB	Jr-1L	206	6-2	58	Mark Fincannon, LB	Sr-1L	211	6-0	80	Davis Corley, DE	So-sq	201	6-3
32	Doug McCutchen, RB	So-sq	202	5-11	59	Scott Brady, LB	Jr-sq	203	6-0	81	Bruce Dowdy, DE	Sr-2L	213	6-4
33	Larry Hargrave, RB	Sr-2L	200	6-1	60	Mark Hazelwood, C	Sr-2L	226	6-4	82	Harold Hurst, DE	So-sq	207	6-3
34	Pat Rogers, RB	So-sq	187	6-1	61	Jon Hill, C	So-sq	206	6-1	84	Gaines Baty, DE	So-fn	197	6-0
35	Don Crocker, RB	So-sq	192	6-0	62	Harold Lyons, OG	So-fn	224	5-11	85	Andy Lowe, DE	So-fn	193	6-2
36	John Kleinert, RB	Jr-1L	170	5-7	63	Milton Hibler, OG	So-sq	216	6-1					



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OFFENSE

- 85 MIKE PAULSON SE
- 66 ALLEN WILKENFELD WSG
- 70 BART GRAVES WST
- 50 JIM THOMPSON C
- 61 MIKE VALLS SSG
- 75 O'DELL MARSHALL SST
- 88 ART LEDET TE
- 10 GREG GLEASON QB
- 11 DAVID ABERCROMBIE TB
- 35 BOB MARSHALL FB
- 29 STEVE BARRIOS WB

TULANE

DEFENSE

- 82 STEVE STARK LE
- 77 MIKE WALKER LT
- 79 BOB WALDRON RT
- 87 JOE YOUNG RE
- 32 RICK KINGREA LB
- 56 RAY HESTER LB
- 55 GLENN HARDER LB
- 30 JOEL HENDERSON LB
- 23 JOE BULLARD LHB
- 33 DAVID HEBERT RHB
- 13 PAUL ELLIS S

THE GREEN WAVE SQUAD

- 11 Abercrombie, TB
- 29 Barrios, WB
- 38 Batey, TB
- 63 Bertrand, QG
- 23 Bullard, DHB
- 48 Chappuis, DT
- 76 Commander, DT
- 44 Corn, FB
- 54 DeWitt, C
- 81 Duck, DE
- 43 Edwards, FB
- 13 Ellis, SAF
- 41 Ewing, DHB
- 22 Farnell, WB
- 52 Frey, C
- 89 Gendron, DE
- 34 Gill, FB
- 10 Gleason, QB
- 70 Graves, OT
- 39 Grimes, LB
- 59 Guzman, LB
- 55 Harder, LB
- 28 Hargrave, TB
- 33 Hebert, DHB
- 30 Henderson, LB
- 56 Hester, LB
- 78 Hollingsworth, OT
- 73 Johnson, DT
- 32 Kingrea, (C), LB
- 72 Koesling, DT
- 42 Laborde, OE
- 17 Lachaussee, QB
- 14 LeBlanc, TB
- 88 Ledet, OE
- 35 B. Marshall, FB
- 75 O. Marshall, OT
- 40 Moss, DHB
- 85 Paulson, OE
- 20 Richard, LB
- 83 Richardson, OE
- 15 Sanders, SAF
- 53 Sanford, LB
- 67 Scelfo, OT
- 84 Smith, DE
- 26 Spencer, DHB
- 82 Stark, DE
- 60 Thomas, OG
- 50 Thompson, C
- 61 Valls, OG
- 79 Waldron, DT
- 77 Walker (C), DT
- 16 Walker, QB
- 66 Wilkenfeld, OG
- 87 Young, DE

— OFFICIALS —

- Referee McDuff Simpson
- Umpire Oscar H. Edmonds
- Head Linesman W. C. Coleman
- Field Judge Jack Bradford
- Back Judge Matt Gorges

DEFENSE

- 81 BRUCE DOWDY LE
- 71 WAYNE McDERMAND LT
- 53 LARRY MOLINARE LLB
- 51 DONALD RIVES MG
- 52 MIKE WATKINS RLB
- 70 BOB MOONEY RT
- 80 DAVIS CORLEY RE
- 26 KEN PERKINS LCB
- 22 BRUCE BUSHONG FS
- 25 DALE REBOLD SS
- 23 JERRY WATSON RC

TEXAS TECH

OFFENSE

- 40 JOHNNY ODOM SE
- 77 DAVID BROWNING QT
- 62 HAROLD LYONS QG
- 75 JESSE RICHARDSON C
- 64 JERRY RYAN SG
- 79 RUSSELL INGRAM ST
- 43 ROBBIE BEST TE
- 15 CHARLES NAPPER QB
- 33 LARRY HARGRAVE LHB
- 30 MILES LANGEHENNIG RHB
- 42 RONNIE ROSS FB

THE RED RAIDER SQUAD

- 76 Barney, OT
- 84 Baty, DE
- 43 Best, F
- 69 Brady, LB
- 77 Browning, OT
- 22 Bushong, DB
- 41 Case, OG
- 80 Corley, DE
- 67 Criswell, OG
- 35 Crocker, RB
- 24 Dove, DB
- 81 Dowdy, DE
- 50 Dyer, DG
- 58 Fincannon, LB
- 31 Hardaway, RB
- 33 Hargrave, RB
- 60 Hazelwood, C
- 63 Hibler, OG
- 61 Hill, C
- 20 Hoyle, DB
- 82 Hurst, DE
- 10 D. Ingram, KS
- 79 R. Ingram, OT
- 74 Jones, DT
- 28 Kennedy, DB
- 45 Kleinert, RB
- 30 Langehennig, RB
- 62 Lowe, OG
- 78 Lyons, OT
- 44 May, SE
- 32 McCutchen, RB
- 71 McDermand, DT
- 57 Miller, DG
- 53 Molinare, LB
- 70 Mooney, DT
- 15 Napper, QB
- 73 Newton, DT
- 40 Odom, TE
- 26 Perkins, DB
- 25 Rebold, DB
- 14 Reynolds, QB
- 75 Richardson, OT
- 54 Robinson, LB
- 51 Rives, DG
- 34 Rogers, RB
- 42 Ross, OE
- 64 Ryan, OG
- 65 Schaffner, OG
- 78 Shuler, OT
- 46 Stewart, OE
- 69 Thomas, C
- 27 Wade, DB
- 11 Waters, QB
- 52 Watkins, LB
- 23 Watson, DB
- 56 Young, LB



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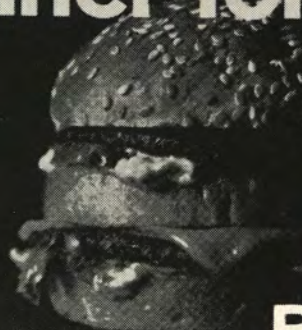
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42 Jack Laborde	67 Sam Scelfo	60 Steve Thomas	54 Chip DeWitt	63 Earl Bertrand	78 J. Hollingsworth
TE	QB	TB	FB	WB	Punters
88 Art Ledet	10 Greg Gleason	11 D. Abercrombie	35 Bob Marshall	29 Steve Barrios	15 Ken Sanders
86 James Godwin	16 Mike Walker	14 Maxie LeBlanc	43 Tommy Edwards	22 Mike Farnell	80 Randy Lee

LE	LT	RT	RE	LB	LB
82 Steve Stark	77 J. Walker	79 Bob Waldron	87 Joe Young	32 Rick Kingrea	56 Ray Hester
57 Joel Hale	57 Joel Hale	72 Mike Koesling	80 Randy Lee	37 Bill Roux	59 Ronnie Guzman
LB	LB	LHB	RHB	Safety	Place Kickers
55 Glenn Harder	30 Joel Henderson	23 Joe Bullard	33 David Herbert	13 Paul Ellis	47 Lee Gibson
24 Ray Marshall	39 Bruce Grimes	41 George Ewing	40 Charles Moss	19 John Buchanan	73 Frank Johnson

OFFENSE

DEFENSE

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10	Greg Gleason, QB	Jr.	5-11	178	38	Jim Batey, TB	Jr.	5-11	195	67	Sam Scelfo, OT	Sr.	5-11	207
11	David Abercrombie (C), TB	Sr.	6-0	190	39	Bruce Grimes, LB	Jr.	6-0	195	70	Bart Graves, OT	Sr.	6-4	240
13	Paul Ellis, SAF	Jr.	5-10	182	40	Charles Moss, DHB	So.	6-0	184	72	Mike Koesling, DT	So.	6-0	222
14	Maxie LeBlanc, TB	Jr.	6-1	180	41	George Ewing, DHB	So.	5-11	183	73	Frank Johnson, DT	So.	6-2	235
15	Kenny Sanders, SAF	Sr.	6-0	188	42	Jack Laborde, OE	Sr.	6-0	205	75	O'Dell Marshall, OT	Jr.	6-2	230
16	Mike W. Walker, QB	So.	6-1	183	43	Tommy Edwards, FB	Jr.	5-11	215	76	Ray Commander, DT	Jr.	6-2	225
17	Rusty Lachaussee, QB	Jr.	6-1	192	44	Ronnie Corn, FB	Jr.	6-0	195	77	J. Mike Walker (C), DT	Sr.	6-5	230
20	David Richard, LB	Sr.	5-10	185	48	Duke Chappuis, DHB	Sr.	5-10	185	78	Jeff Hollingsworth, OT	So.	6-2	220
22	Mike Farnell, WB	Sr.	5-11	185	50	Jim Thompson, C	Jr.	6-2	215	79	Bob Waldron, DT	Jr.	6-5	235
23	Joe Bullard, DHB	Jr.	6-0	185	52	Bob Frey, C	So.	6-2	225	81	Bryan Duck, DE	Sr.	6-1	200
26	Butch Spencer, DHB	Sr.	6-2	209	53	Mike Sanford, LB	Sr.	6-0	210	82	Steve Stark, DE	Sr.	6-0	190
28	Cal Hargrave, TB	Jr.	6-2	195	54	Chip DeWitt, C	Sr.	6-1	220	83	Carl Richardson, OE	Jr.	6-3	215
29	Steve Barrios, WB	Jr.	6-0	187	55	Glen Harder, LB	So.	6-2	215	84	Ed Smith, DE	Jr.	5-11	190
30	Joel Henderson, LB	Sr.	6-0	205	56	Ray Hester, LB	Sr.	6-2	215	85	Mike Paulson, OE	Jr.	6-2	190
31	Harold Sisk, LB	Sr.	5-11	200	59	Ronnie Guzman, LB	Jr.	6-0	207	87	Joe Young, DE	Jr.	6-1	217
32	Rick Kingrea (C), LB	Sr.	6-1	235	60	Steve Thomas, OG	Jr.	5-11	210	88	Art Ledet, OE	Jr.	6-1	215
33	David Hebert, DHB	Jr.	5-11	183	61	Mike Valls, OG	Jr.	6-0	217	89	Joe Gendron, DE	Sr.	6-2	205
34	Johnny Gill, FB	Sr.	6-0	185	63	Earl Bertrand, OG	So.	5-11	225					
35	Bob Marshall, FB	Jr.	5-10	195	66	Allen Wilkenfeld, OG	Sr.	5-10	225					



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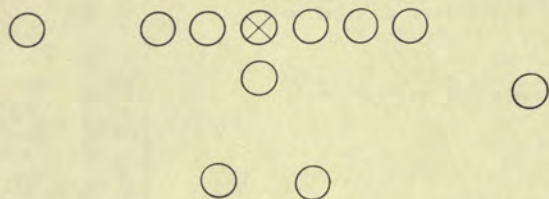


A man has a lot going for him when a girl eyes him for the clothes he wears.

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But to offset that, there are a number of counters and reverses in the repertoire to take advantage of the things a defense gives away in the process of halting the triple threat.



Tech's alignment differs from most adaptations of the triple option. The offensive line, with "quick side" and "strong side" flip-flops, though the backfield is static. The left half is the true halfback, the right half is the player generally called the fullback. The tight end always lines up at the strong side, with the flanker behind and outside him. The split end, consequently, goes to the quick side.

Carlen, who used this offense in compiling a 10-1 record including a Peach Bowl win during his last season at West Virginia, installed it here during the past spring.

"I am definitely sold on the triple option," he said. "It has been successful, and nothing is more impressive than success."

He picked it up down at Houston, straight from the designer just over a year ago. It looks nice on him. He only hopes it wears well.



Ground-gainer Miles Langhennig has potential for a great season as runner and receiver.



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Those red-shirted men whom you see at almost every important campus occasion are the Saddle Tramps, Texas Tech's most spirit minded organization.

The Tramps spend countless hours leading cheers at sports events, escorting Tech and visiting athletic teams, guiding tours of parents and visitors on campus, and giving the red carpet treatment to visiting dignitaries.

What do the Saddle tramps do for Texas Tech's athletic program?

Athletic Director and former head coach J T King said "The Saddle Tramps are the best group I have ever seen to build morale among squad members and the student body."

For many years the Tramps have hosted visiting sportswriters when the Southwest Conference press tour visits the Tech campus. They serve as couriers and press aides to the visiting writers and broadcasters.

The biggest project underway at the present time by the Tramps is the Texas Tech fountain. The tramps began a campaign in 1963 and expect the project to be completed this Christmas. To help finance the fountain the Tramps will be selling strips of Astroturf at the Red Raider home football games. The Astroturf strips are remnants of Texas Tech's synthetic turf.

This season the Tramps formed a girl's auxiliary spirit group. The idea stemmed from the girl recruiters, a group formed last season by the Tramps.

The Tramps, who will don new red sweaters this season, have been visited by many major universities who wanted to adopt a spirit group such as the Saddle Tramps.

The Saddle Tramps date back to 1936 when Arch Lamb, now a Lubbock County

Commissioner, recognized a need for such a group to channel the activities of Tech's most ardent student boosters, and he served as the first president.

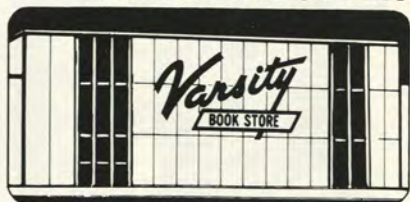
Two persons hold honorary life membership: W. Conner Cole, former manager of the Tech Bookstore, and recently honored for more than 41 years of service to Tech; and Joe Winegar, manager of the Tech Stenographic Bureau.

Other honorary members are Polk Robison, J T King, Gene Gibson, Bruce Stark II, Dudley Johns, and Berl Huffman. Winegar and Dr. Paul Woods are sponsors.

This year's officers are President, Randy Brillhart, from Perryton; First Vice-President, Jim Stinson, from Houston; Second Vice-President, Bill Hodges, from Bellevue; Treasurer, Steve Simms, from Houston; Secretary, Larry Foerster, from Beaumont; and Sergeant at Arms, Bill Hodges, from Odessa and Rick Sterling, from Lubbock.

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Texas A&M



KENNETH W. HERRICK
TCU

SOUTHWEST ATHLETIC CONFERENCE

The work of the faculty representatives, while not as well known as that of the coaches and athletic directors, has been most important to the development of the Conference.

ORGANIZED in 1914, the Southwest Athletic Conference arose out of special needs of the larger colleges of the section to create an organization which would further the best interests of intercollegiate athletics.

Need of higher academic standards for student athletes and of ethical standards and practices were guidelines for the representatives of seven institutions who

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(From Page 34)

THE TEXAS TECH ATHLETIC COUNCIL is the guiding hand of the University's well-rounded athletic program. Everything from finances, personnel, schedules, to Texas Tech's participation in the Southwest Conference falls under the jurisdiction of the Council. Members are appointed by the president and report to the president and Texas Tech's Board of Regents on subjects concerning Red Raider athletics and NCAA matters.



Larry Meyers
STUDENT REPRESENTATIVE



Dr. S. M. Kennedy
EX OFFICIO MEMBER



Mike Anderson
STUDENT REPRESENTATIVE

A REQUEST TO ALL SPECTATORS

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UNIFORMS — LETTERING — TROPHIES



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Cont. from 47

convened in Dallas, May 6, 1914, for the purpose of founding an organization that would "enlarge and more closely relate the athletic activities of the larger institutions of the states represented." The meeting was held in the Oriental Hotel, site of the Baker Hotel today.

It was at the invitation of L. Theo Belmont, then athletic director of The University of Texas, that the representatives from seven institutions convened in Dallas for the founding. Present for the drafting of the constitution and bylaws were G. A. Gantt and S. R. Spencer, Baylor University; J. C. Snipes, Southwestern University; John Corbett, Oklahoma A&M College; Robert J. Potts, Texas A&M College; T. W. Atkinson and J. F. Broussard, Louisiana State University; D. K. Sadler and R. J. Nelson, University of Arkansas; Dr. W. T. Mather and Belmont, The University of Texas.

The founding fathers met for a second time at the Rice Hotel in Houston, December 8, 1914, and completed the organization. Representatives from the University of Oklahoma (Ben Owen) and Rice Institute (W. W. Watkin) were present for this meeting and their institutions became charter members along with Arkansas, Baylor, Southwestern, Oklahoma A&M, and Texas. Rice was accepted provisionally.

Thus came into existence the Southwest Intercollegiate Athletic Conference, which two years later (May, 1916) was to be shortened to Southwest Athletic Conference. The league encompassed representatives of only three of the five states that were included in the original planning. LSU withdrew at the organizational meeting, while the University of Mississippi failed to follow through on early indications of interest.

An eight-member league at the outset, the Conference functioned with as few as six (1916 and 1917), as many as nine (1920), then with seven for thirty years (1926-1956).

Southwestern, Oklahoma and Phillips withdrew after brief stints and Oklahoma A&M took leave after a decade of membership. Meantime, Southern Methodist University and Texas Christian University were accepted into the league, and in 1956 Texas Tech was admitted to complete the current family circle.

The eight charter members (Arkansas, Baylor, Rice, Southwestern, Oklahoma, Oklahoma A&M, Texas A&M and Texas) decreed that a two-thirds vote would be required to increase membership, expell or suspend a member or to amend the constitution.

Rice took a two-year leave after one calendar year (1915) of participation, and Southwestern decided it was outmanned after two years and voluntarily withdrew at the close of 1916.

Rice rejoined in December, 1917, and SMU was admitted in time to participate in the 1918 track and field meet at Norman, Oklahoma.

Oklahoma withdrew early in 1920, and its representative (R. G. Soutar) had to relinquish the newly-acquired presidency.

Phillips University of Enid, Oklahoma, was admitted in December, 1919, but participated only during the calendar year. Phillips withdrew in protest to a rule that would not permit freshmen in

more on 54



DAVID ABERCROMBIE



RONNIE CORN
6-0 195—Jr., Mobile, Ala., FB



STEVE BARRIOS



JIM BATEY

11 *David Abercrombie
6-0, 190—Sr., Seminary, Miss., TB
Converted quarterback who could be the key man in the Green Wave's ground attack this Fall . . . selected most consistent offensive back by coaching staff at end of spring workouts and co-winner of outstanding offensive player award in spring game .

29 *Steve Barrios
6-0, 187—Jr., New Orleans, La., WB
Should gain recognition as one of the better receivers in the South this fall . . . named to the A.P. All-Southeastern Independent Team after leading Tulane receivers with 23 grabs as a sophomore last season .

38 *Jimmy Batey
5-11, 195—Jr., Franklin, La., TB
Green Wave's top rusher last fall as a sophomore . . . netted 320 yards in 59 attempts for a fine 5.4-yard gain per carry . . . newsmen named him TU's Back of the Week for the West Virginia and Boston College games .

23 *Joe Bullard
6-0, 185—Jr., Mobile, Ala., DHB
One of the outstanding punt returners in major college football . . . established new Tulane records for yardage gained on punt returns in one game (137) and in one season (395), for highest average per return (20.8) and for the longest single punt return (92 yards) .

44 *Ronnie Corn
6-0 195—Jr., Mobile, Ala., FB
Worked up to starting job at the end of last season . . . injuries sidelined him for most of last spring, but he could be a key man in the offensive backfield if he stays healthy this fall . . . a strong runner who can get the job done at either tailback or fullback .

54 **Chip DeWitt
6-1, 220—Sr., Houston, Tex., C
Two-year letterman who was Tulane's starting center last fall . . . on-the-field leader who is noted for his hustle and aggressive play . . . a very good football player whose experience and dedication to the game make him a key man in the Green Wave's forward wall . . . named to the A.P. All-Southeastern Independent Team last fall .

13 *Paul Ellis
5-10, 182—Jr., New Orleans, La., SAF
Should be one of the finest defensive backs in the South this fall . . . led Tulane in interceptions in 1969 with five thefts . . . a tough, sure tackler he ranked fourth in stops with 63 first contacts and 22 assists . . . named TU's Back of the Week after Notre Dame game . . . Became first sophomore game co-captain with Barrios for Georgia Tech game, leading Wave to 14-7 win .

43 *Tommy Edwards
5-11, 215—Jr., Opelousas, La., FB
Could be Tulane's starting fullback in 1970 . . . lettered at linebacker last season and was not moved to fullback until the last four workouts of spring drills.

22 **Mike Farnell
5-11, 185—Sr., Mobile, Ala., WB
Two-year letterman at wingback who put in a strong bid for a starting job last spring before a knee injury sidelined him . . . has good speed and concentration and isn't afraid to catch the football in a crowd . . . his three receptions last fall included a 36-yarder against Notre Dame and a 39-yarder against LSU .

60 *Steve Thomas
5-11, 210—Jr., Groves, Tex., OG
Part-time starter last fall who came a long way during spring drills . . . aggressive athlete who did a fine job blocking in the Green-White game . . . expected to make a big push for a starting job in 1970 .

89 **Joe Gendron
6-2, 205—Sr., Watertown, N.Y., DE
Two-year letterman for the Green Wave at defensive end . . . has been hampered by injuries during college career, but keeps coming back . . . noted for hustle and aggressive play .



JOE BULLARD



CHIP DeWITT



PAUL ELLIS



TOMMY EDWARDS



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JOE GENDRON



JOHNNY GILL



ART LEDET



GREG GLEASON



34

Johnny Gill

6-0, 185—Sr., Slidell, La., FB

Converted defensive back who showed a lot of promise at fullback last spring . . . a tough blocker, his playing opportunities should increase as he gains experience

88

*** Art Ledet**

6-1, 215—Jr., Abbeville, La., OE

A real throughbred whose move to tight end last spring added a new dimension to the Tulane offense . . . big, strong and tough enough to get the job done blocking, he can also run like a deer and catch the football

70

Greg Gleason

5-11, 178—Jr., LaMesa, Cal., OE

Strong-armed newcomer who was the Green Wave's number one quarterback at the end of Spring drills . . . transferred to Tulane from Grossmont Junior College where he was first-team all-stater

70

*** Bart Graves**

6-4, 240—Sr., Marshall, Tex., OT

Consistent football player who should be one of Tulane's top offensive linemen again this fall . . . selected to the Associated Press All-Southeastern Independent Team last year . . . logged more playing time than any other Tulane offensive player in 1969 . . . has real good size and moves well for a big man .



BART GRAVES



CAL HARGRAVE

28

Cal Hargrave

6-2, 195—Jr., Crowley, La., TB

The rapid improvement of this redshirt was a pleasant surprise last spring . . . lacks experience, but strong running and determined effort kept him on the first and second units all spring . . . size and speed make him a welcome addition to the Tulane running back corps .

33

*** David Hebert**

5'11, 183—Jr., Thibodaux, La., DHB

Hard nosed, consistent football player who figures to hang onto his starting defensive backfield spot this fall . . . improved all phases of his game last spring with a determined, steady effort .

30

*** Joel Henderson**

6-0, 205—Sr., Greenville, Miss., LB

One of the Green Wave's most consistent defensive players last fall, this gem of an outside linebacker should be Tulane's starting rover in 1970 . . . started at both strong back and rover last fall, but coaches feel his talents are best suited to the rover spot .

56

**** Ray Hester**

6-2, 215—Sr., New Orleans, La., LB

Seasoned warrior who has started twenty consecutive varsity contests over the past two seasons . . . Runner-up for UPI National Lineman of Week honors for his performance in Tulane's 14-7 win over Georgia Tech . . .

82

*** Steve Stark**

6-0, 190—Sr., Franklin, La., DE

Started season opener at fullback and final six games at defensive end last fall . . . quick, strong and aggressive, he moved into a starting job last season with little training in defensive fundamentals and did a fine job

32

*** Ricky Kingrea**

6-1, 235—Sr., Baton Rouge, La., LB

(See Page 11)

Outstanding collegiate linebacker who is a prime candidate for All-America honors in 1970 . . . named to the Associated Press All-Southeastern Independent Team after leading the Tulane defense with 98 first contacts and 47 assists last fall .



DAVID HEBERT



JOEL HENDERSON



RAY HESTER



STEVE STARK



RICK KINGREA




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DAVID RICHARD



BOB MARSHALL



MIKE PAULSON



ED SMITH

42 **Jack Laborde
6-0, 205—Sr., New Orleans, La., OE
Versatile veteran who may have found a home at wide receiver last spring . . . did a good job as a quarterback as a sophomore and as a running back last fall, but has all the tools to become an outstanding receiver .

17 *Rusty Lachaussee
6-1, 192—Jr., Pascagoula, Miss., QB
Record-busting passer who made great strides toward improving other facets of his game last spring . . . established new Tulane season records for pass attempts (199), completions (90), yards gained passing (1291) and yardage gained per completion (14.34) as a sophomore .

14 *Maxie LeBlanc
6-1, 180—Jr., Vinton, La., TB
Gained 420 yards on 19 receptions last fall as a split end to establish a new Tulane season record for average gain per reception (22.1 yards) . . . shifted to tailback last spring and looked strong there . . . his 59 and 32 yard touchdown receptions sparked the Green Wave from a 22-0 deficit to a 26-22 win over Pitts- burgh last October

20 *David Richard
5-10, 185—Sr., Lutcher, La., LB
Hard nosed veteran who returns to the defensive unit after spending last fall in the offensive backfield . . . started several games at fullback in 1969 and scored the winning touchdown in the Green Wave's 14-7 victory over Georgia Tech . . .



JIM THOMPSON



MIKE VALLS



BOB WALDRON



J. MIKE WALKER



ALLEN WILKENFELD



JOE YOUNG

35 *Bob Marshall
5-10, 195—Jr., Metairie, La., FB
Started five games as a sophomore running back last fall and wound up third in rushing (225 yards) and fourth in pass receiving (9 catches for 79 yards) . . . a strong runner with good speed and great balance . . .

85 *Mike Paulson
6-2, 190—Jr., Dallas, Texas, OE
Good moves, great hands and pride make this Texan a winning pass receiver . . . intelligent performer who knows what it takes to defeat his opponent . . . and he never forgets where that goalline is . . . caught nine passes as a reserve last season.

84 *Ed Smith
5-11, 190—Jr., Eunice, La., DE
Did a great job as a starting defensive end late last fall when injuries at that position caused him to move over from outside linebacker . . . missed part of spring training with a shoulder injury but still must be rated a strong contender for a starting job .



HAROLD SISK



KENNY SANDERS



MIKE SANFORD

15 **Kenny Sanders
6-0, 188—Sr., Baton Rouge, La., SAF
One of the best punters in college football and he has the stats to prove it . . . wound up third in the nation last season with a 43.3 yard average on 66 punts after ranking sixth in the nation as a soph with a 41.9-yard average . . .

53 *Mike Sanford
6-0, 210—Sr., Moselle, Miss., LB
Did a fine job as a reserve last fall and could be a key man in the 1970 line- backing picture . . . an aggressive sure tackler with excellent play recognition . . .

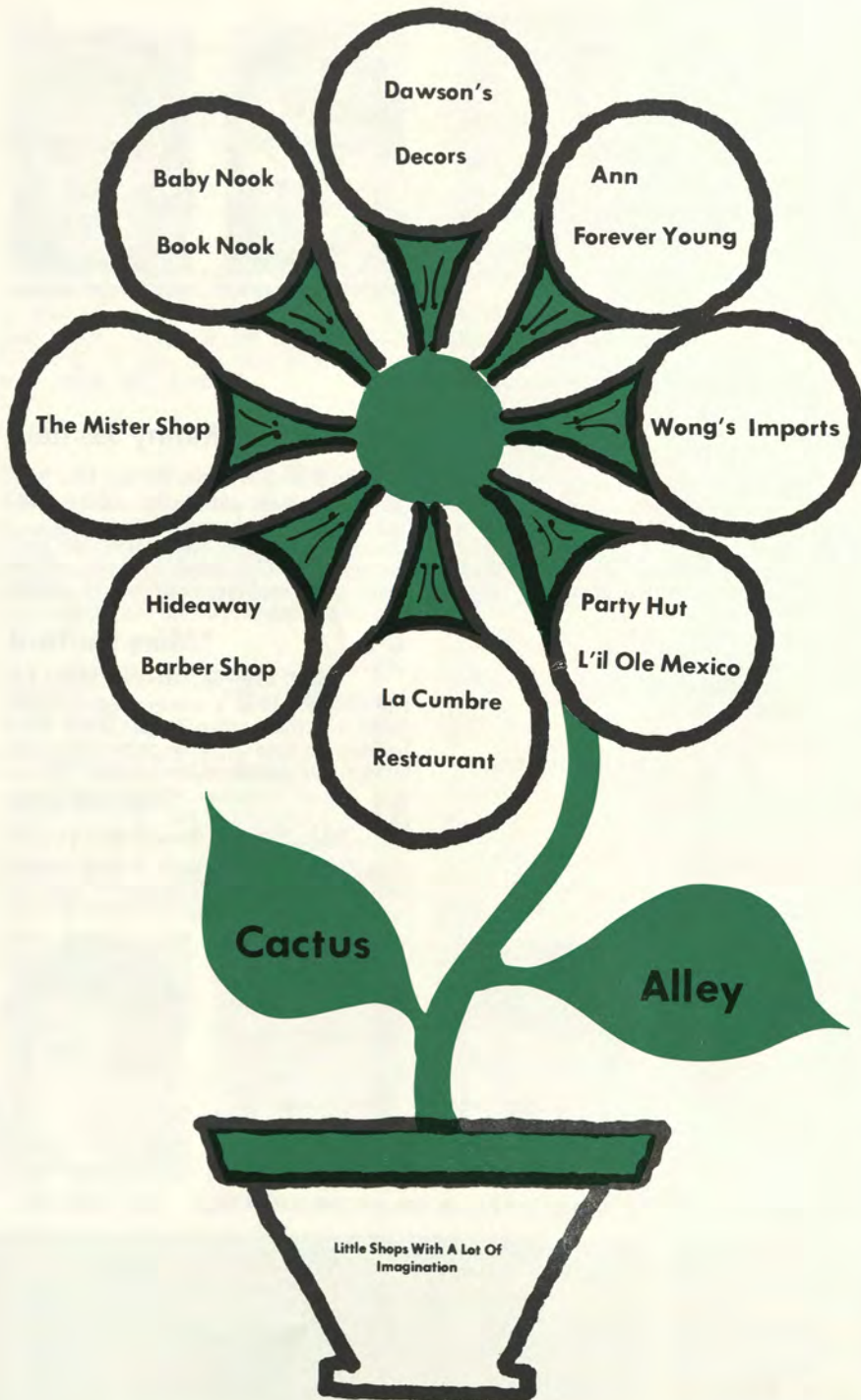
31 *Harold Sisk
5-11, 200—Sr., Beaumont, Tex., LB
Started the Green Wave's season opener with Georgia at inside linebacker last fall but was injured in that contest and mis-

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sed the rest of the season . . . returned in good health last spring and again figures prominently in Tulane's linebacking picture .

50

*** Jim Thompson**

6-2, 215—Jr., Dallas, Tex., C

Finished spring drills as the Green Wave's number one center . . . combination of natural ability and experience gained last fall have made him a strong collegiate ball snapper .

77

**** J. Mike Walker**

6-5, 230—Sr., Sulphur, La., DT

One of the outstanding defensive tackles in college football . . . named UPI's Southeast Lineman of the Week for his efforts in Tulane's 14-7 win over Georgia Tech and was named to the Associated Press All-Southeast Independent Team at the end of the season . . . used his speed and aggressiveness to compile an average of eight and one half first contacts per contest last fall, a total that is considered nothing short of sensational for a down lineman .

61

*** Mike Valls**

6-0, 217—Jr., New Iberia, La., OG

Aggressive athlete who will be hard to move out of the number one offensive line in 1970 . . . took over a starting offensive guard spot last fall after being named Tulane's Lineman of the Week for his fine blocking performance against West Virginia .

66

*** Allen Wilkenfeld**

5-10, 225—Sr., Texas City, Tex., OG

Junior College transfer who did a fine job for the Green Wave as a starting offensive guard last fall . . . turned in an outstanding effort last spring and was selected the most consistent lineman during spring drills by the coaching staff . . . a battler with a good blocking base who really comes off the football .

79

*** Bob Waldron**

6-5, 235—Jr., Shreveport, La., DT

Took over a starting defensive tackle job last fall as a green soph and played some outstanding defensive football . . . named Tulane's Lineman of the Week for his performance against Boston College in his third collegiate varsity contest .

87

*** Joe Young**

6-1, 217—Jr., Houston, Tex., DE

Returning starter at defensive end who will be hard to move out of a number one job . . . voted the team's most consistent defensive lineman at the end of spring drills by the coaching staff . . . should be even harder to handle this fall with a year of seasoning behind him

Tulane is coming off a 3-7 season but one that showed lots of promise at the end. They beat Georgia Tech (14-7) and blanked Virginia (31-0) before closing out with a loss to No. 7 ranked LSU (27-0).

Stalwarts in Tulane's defensive armor are tackles Mike Walker (6-5, 230), and Bob Waldron (6-5, 235), and linebackers Rick Kingrea (6-1, 235) and Ray Hester (6-2, 215).

Kingrea and Hester are two seniors who have been starters the past two years. Many pro scouts tab Kingrea as a future pro star.

Recruited from the heart of LSU territory in Baton Rouge, La., Kingrea was named to the Associated Press All-Southeastern Independent team after leading the Wave defense with 98 first contacts and 47 assists last fall.

The all-sophomore defensive backfield that picked off seven passes in '69 is counted on for greater things. Ellis, Bullard and David Hebert go for the football like ducks to water.

Besides stealing passes, Bullard was one of the top punt returners in the country last year. He established a new Wave record with 395 yards on 19 returns. One was a 92-yard TD jaunt against Vanderbilt—the longest in Tulane history.

"You know you have a good return man when they start kicking the ball away from him," noted Pittman. "That happened to Joe towards the end of the season ... he has that special knack of picking up blockers ... besides he has outstanding speed."

Joining Walker in the starting backfield will be Tommy Edwards (fullback), Abercrombie, and Steve Barrios (wingback). Edwards is a junior who lettered as a linebacker last season.

Barrios is a tremendous threat as a pass receiver. He led Tulane receivers with 23 grabs as a sophomore in 1969.

Pittman spoke highly of the Red Raiders. "We scouted them this spring," he said. "They have a bunch of veterans returning and many people in the Southwest Conference are picking them to finish third ... that's pretty good when you have folks like Texas and Arkansas in front of you."

How does Pittman feel about the 11-game schedule?

"When I was at Texas," he added, "the people expected to play 11 games every year ... I'd like to get in the habit of playing 12."

RICHARD OWEN
KINGREA



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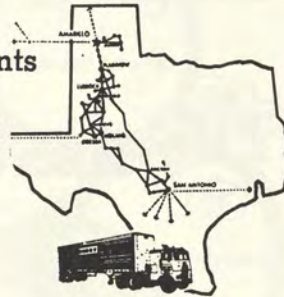


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Cont. from 48

varsity competition for schools with enrollment of fewer than 500 males. SMU considered withdrawal for the same reason.

TCU was admitted in December, 1922, and participated for the first time in the 1923 baseball and track seasons.

Oklahoma A&M resigned in May, 1925, after winning the basketball championship and hosting the Conference track and field meet at Stillwater.

Texas Tech, which opened its doors that same year, was admitted to membership 31 years later at the May, 1956 meeting in Fayetteville, Arkansas. Tech started SWC competition in basketball, tennis, golf, track and field in 1958 and in football in 1960.

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There's a lot more to tell about AstroTurf, but we've about reached the bottom of the page. If you'd like to hear it, write to Monsanto Company, St. Louis, Mo. 63166.

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The Story of College Football—Circa 2070

by JOHN MOONEY, Sports Editor, Salt Lake City Tribune, President, Football Writers Association of America

"Surely, that bicentennial of college football celebration was a great promotion last fall, and the news media got a lot of mileage out of the Third-50-Year and the Second-Century All-Time teams.

"One guy attempted to pick the greatest stars of two centuries of college football and chose a couple of guys named Heffelfinger and Nagurski.

"Now, sonny, you're a cub reporter and I know your generation doesn't trust anyone over 65, but let me tell you about the guy whose likeness should have been on the Bicentennial medallion.

"You probably never heard of Coach Joe Smith. He's the guy who should have been honored. But let me take you back to your grandpop's day to show you why . . .

"Medical men credited improved diets, vitamins, hormones and weight programs with developing super humans. Why, by the year 2000, the All-America offensive guards stood 6-11 and weighed 300 pounds and they could run the 40 in 4.2 seconds.

"Players grew so big there was agitation to widen and lengthen the football field, which was getting as congested as the area under the basket in the ancient game of basketball.

Field Goals Outlawed

"The field goal, which is mentioned frequently in the first 100 years of football, had been voted out. Kickers were booting them from one goal line to the other, so there was a rule passed outlawing the field goal attempt.

"The whole kicking game went out of football at the turn of the century. The shattering crash of those huge linemen mashing each other on the punts and kickoffs had become so devastating the kicks were outlawed to cut down on the carnage.

"You never saw a football coach in those days, except on the television programs. They had left the sidelines and retreated to their command headquarters deep in the bowels of the stadium.

"You couldn't believe these rooms. Coaches were surrounded by closed circuit TV sets, instant replay cameras and micro-wave transmitters beamed to each player on the field and the bench.

"Each coach had a broadcast band, aimed at the players under his command. The defensive coaches had their sets tuned to the front four, the line-backers and the deep backs.

"Across the room the offensive assistants had their head sets beamed to the quarterback, the wide receivers, the interior linemen and the running backs.

Computers Everywhere

"Computers were everywhere in this room. The instant replay was geared to one computer which could break down a play offensively and defensively in micro-seconds.

"Players did not call offensive and



defensive signals; their coaches watched the computers' monitors and yelled instructions to the individuals as the action developed.

"There even was a special counter-intelligence unit in the stadium I visited. There, coaches and computers worked to break the code used by the rival coaches to convey instructions.

"Some coaches, who put winning ahead of ethics, were said to use their facilities to jam the wave lengths of the opponents, and more than one game allegedly was won when the defensive back lost contact with his instructor, when his wave length went dead or was jammed.

"It was the opening game of the 2025 season that Coach Joe Smith revolutionized, yea, saved college football.

"Historians of the First 100 Years can speak of the game's innovators—Rockne, Zuppke, Warner, Shaughnessy, Faurot, Yost—and Stagg—but on this afternoon Smith stood two feet higher than any coach in history.

"Actually, it all started when Coach Smith, in scanning some old rules and regulations, discovered the rules committee had outlawed the use of all instant replays and electronic devices as coaching aids back in the latter years of football's first century.

"Coach Smith checked quietly and found the rules had not been relaxed. Here was a football 'blue law' which hadn't been enforced in 50 years, but it still was on the books.

Individual Initiative

"Smith worked all spring stressing individual initiative in offensive and defensive drills. He gave the entire offensive burden to the quarterback and the defense to the unit captain.

"All electronic gadgets were banned from practice. The coaching staff moved back to the sidelines.

"Just before the opening toss for goals, Smith pulled out his old rule book and his opponent was shorn of his electronic gadgets and his Black Room deep in the stadium. With no coaching help, the rival players were in a shambles and Coach Smith won easily.

"Rival coaches were quick to demand a change in the rules.

"Some called Coach Smith 'anti-quoted' and a 'nit-picker' who did not have the best interest of the game at heart. The Football Coaches Association issued a White Paper to its members and the press corps, warning that the public would never accept such an inferior, non-electronic product.

"The ruling made in the 1960's had to stick, sonny, and you know what happened before the Rules Committee could meet to change the rules?

"The next Saturday, football fans by the millions, who had become accustomed to watching the game at home on TV, suddenly wanted to be a part of the action. The college football stadia around the country were jammed to watch this 'new philosophy' of football.

"The long run and the touchdown bomb, almost unheard of in the highly scientific game of electronic gadgets, became popular.

"The scrambling quarterback, who could turn a busted play into a thrilling gain, the fine running back who broke loose because of his desire and second effort, the defensive ace who dared try something different, became the new heroes.

"Suddenly, college football was a fun game again, sonny.

"A lot of rival coaches used some fancy names to describe the changing game, and mostly, Coach Joe Smith kinda faded from the scene and the glory.

"But I remember (I was just a cub reporter like you, in those days) the quote Coach Smith gave us after that BIG GAME:

"'All I did was give the game back to the boys,' he said. 'And they liked it and so did I. It was fun and I'm glad to see the fans agreed.'

"And that, sonny, is why you and I are here this afternoon watching college football, along with millions of fans across the nation.

"It's the greatest game in the world, but except for Coach Joe Smith, they would have killed it."



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This team's statistics are worth scouting

By **SUSIE PERKINS**

Lubbock Avalanche-Journal Staff

They're a tough team, these gals — they have to be to play the positions — they are the **CENTER** of attention at banquets, in crowds; they **QUARTERBACK** family finances at times, play **TACKLE** with the kids; when Daddy is gone they **REFEREE** squabbles at home, so knowledge of the game is important. This behind-the-scene team call themselves coaches' wives.

As in all professions there are good and bad points. All the wives agree with Linda Ragland in listing their one main complaint: "The hours are so irregular and they (the coaches) are gone for weeks at a time during recruiting season." "But," they all said, "when we see how much our husbands enjoy it we don't really mind." Mrs. Ragland, who stays busy caring for their 18-month-old son, Robert, "and a puppy," says about all she knows about coaching is what she reads in the paper.

That is not the case with Marilyn Bell. "I used to keep statistics for my husband and help him grade football films so I know quite a bit about the game and love it." Contrary to what most people think, she says, there is no "off season" for coaches and their families. Mrs. Bell, therefore, stays busy year



From left: Gaye Bissell, Jonell Fligg, Bobbie Taylor, Edith Baker, Joan Evans, Duan Wilson.

'round with Michell, 5, Meredith, 2, and she enjoys reading and playing the piano.

Treva Stiles says "I have been a football widow for 18 years but love the glamour of college ball." The only thing that concerns her is her son, Stephen's, knowledge of the game. "Most fathers take their sons to the football game and

explain every play to them. I don't know enough to tell Stephen so I think all he goes for is popcorn and candy!" The Stiles' have two other children, Susan 17, and Sara, 5. Her main hobby is teaching a Sunday School class.

Kay Brown claims she is really too emotional to be a coach's wife. "I

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(From Page 57)

always cry at the first game, especially.

Everybody says I will probably just sob, though, when I see Charcoal Cody ride around the field. Mrs. Brown has a master's degree in music from Peabody College in Tennessee. She has been in several summer stock casts in Cape Cod and plans to try out for some singing parts here in Lubbock. The Browns have two children, Sherry, 8, and Scott, 5.

"Saturday is a party-play day for most people, but for us it is definitely a work day," says Bobbie Taylor. She admits



Seated from left: Treva Stiles, Miss Melanie Carlen, Ruth Conley, Miss Meredith Bell, Kay Brown

she does some "back-seat" coaching occasionally, but complains she can't find anybody to pay her for it. Even though she has always dreamed of being a coach's wife, Mrs. Taylor says she will never be able to ignore the comments about her husband and the boys that invariably come from the fans. "We've got to have tough skins!"

Joann Evans' hobby of hiking doesn't get much attention here in West Texas. "I miss the hills of West Virginia," she says, "and I'm afraid if I went hiking anywhere around here I would be looking for snakes the whole time." Another of her favorite hobbies besides hiking and watching football is watching track. She says she has always been crazy about track and it is the one thing she can look forward to after football season. The Evans have two sons, Kelly 10, and Tracy 6.

My husband is the first one in the dressing room and the last one to leave," Fay Bissel, wife of football trainer Robert, said. So actually his hours are just as bad as the coaches'. Mrs. Bissel is a nurse and claims the nature of their occupations makes her enjoy her husband's work even more. "We share common interests and often discuss injuries and how we both would have handled them." The Bissels have been married since January.

Sharon Carlen calls "meeting people" the glamorous part of being a coach's wife. "I love to travel with my husband and next to watching football, I enjoy the people most." The Carlens have three children, Mollianne, 7; Jamie, 5; and Melanie, 3.

Eddie Baker joins Mrs. Carlen in enjoying the social aspect of being a coach's wife. Mrs. Baker, who stays very busy with Artie, 15; Kim, 14; Ryan, 7 and Curtis, 5, says now that her youngest child will be going to kindergarten she is planning to do the many things at home she has wanted to do for so long, like make scrapbooks for the children, sew and antique furniture.

Recruiting is an especially lonely time for Ruth Conley. Now that their son, Johnny, is in the U. S. Navy in San

Fellowship of Christian Athletes Active on Campus

Sports-minded men on the Texas Tech campus make up one of the nation's largest chapters of the Fellowship of Christian Athletes, an interdenominational movement of faith and action embracing both Protestants and Roman Catholics.

Larry Hargrave is president of the fellowship, which holds weekly meetings and from time to time sponsors special projects. An organization of long-standing on the Tech campus, the group is in a new period of increased activity.

"FCA seeks to show that it is both possible and practical to be a Christian, on and off the field of athletics," said Coach Jess Stiles, who is co-sponsor of the group with Coach Art Baker.

"Its approach is simple," he continued. "The FCA seeks to bring athletes and coaches together to discover that it is not necessary to be a 'holier than thou' type of person, but that any athlete or coach can bear witness to his spiritual conviction in every daily experience."

The non-profit organization is supported by tax-deductible gifts from individuals, businesses, industries, churches and other interested groups.

Diego she says she is having to "adjust" to her husband being gone so long. So she occupies her time with oil painting and handcrafts. "I would play golf with my husband but I am as coordinated as a duck, so he tells me." Concerning the recent All-America game played in Lubbock, Mrs. Conley says, "I just enjoyed that so much — I got to sit with my husband!"

Dawn Wilson and Jonell Fligg agree that it is much more exciting being a coach's wife than being married to someone with a nine-to-five job. Mrs. Wilson, whose husband, Tom, was quarterback for the Raiders in 1965, says she feels more strain on her now as a spectator than when Tom was a player. "There doesn't seem to be as much criticism of a player as for a coach," she said. "But the people pay their money so they have a right to their opinions. Besides the activities with their two children, Randal Mark, 6, and Julie Diann, 2, Mrs. Wilson works part-time and loves to read.

Mrs. Fligg says since coaching football is their "bread and butter" they take the game more seriously than most fans. "We know the time they spend all year and we know the good feeling we all have after a win," she says. Her hobbies include painting, swimming and antiques furniture. The Fliggs have two daughters, Terry, 14, and Joanna, 21 months, and a son, Matt, 12.



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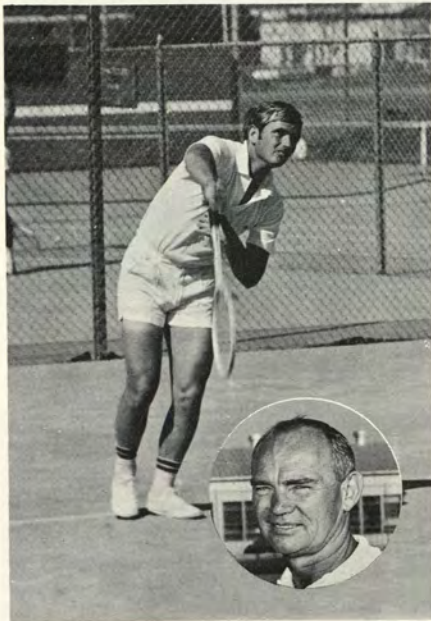
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Tech Coaches of Other Sports

George Philbrick has guided Texas Tech tennis teams to 12 first division finishes in the 13 years the Red Raiders have participated in Southwest Conference competition. Philbrick graduated from Tech in 1939. He was a basketball and football letterman, playing end in the 1939 Cotton Bowl game against St. Mary's. He joined Tech's PE department in 1947 after serving in 1942-43 and became tennis coach in 1953.



Gene "Butch" Mitchell will start his fifth year as Red Raider golf coach. He succeeds Danny Mason who is now on the physical education staff at Tech. Mitchell is a former Lubbock High School golfer, winning the regional title for the Westerners. He was on the professional tour for 18 months and won the 1966 Texas Professional Golfers Association title. He is the co-professional at Lubbock Country Club.



Jim McNally will begin his 12th season as head coach of the Red Raider swimming team. Since 1962 he has guided Tech to eight third place finishes in nine years. McNally was a standout high school, college, and service swimmer. He swam for Big-8 Champ, Oklahoma, in college and then competed in the Navy, where he was the all-Navy champ in the 800 and 1500-meter events. He is past chairman of the NCAA diving committee and a member of the NCAA rules committee.

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Kal Segrist, an ex-New York Yankee star, enters his fourth season as baseball coach at Tech. In 1969, he was named "Coach of the Year" in SWC baseball by the Associated Press for his efforts in guiding Tech from the cellar to third place in the league. Segrist is a former All-America selection who played for the University of Texas and led the conference in hitting in 1950 with a .442 average.



Vernon Hilliard joined the Tech staff in 1964 and will begin his seventh year as head track coach. Hilliard is a native of Lockhart and came to Tech from Wayland where he was coach and assistant to the President. He coached track at McMurry and Hardin Simmons. He coached state championship teams at Lockhart and Kerrville and directed McMurray to three Texas Conference football championships. Hilliard also was athletic director at McMurry.



Bob Bass, former professional coach of the Denver Rockets and college coach at Oklahoma Baptist, came to Tech last season and directed the Red Raiders to their first winning basketball season in four years and third place in the SWC standings. Bass was picked to finish seventh in an eight team league but surprised everyone by finishing two games out of first place. His lifetime coaching mark is 482 wins and 270 losses.



What's this
younger generation
coming to?
They're coming
to us.



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Songs and Yells

at



Matador Song

Fight, Matadors, for Tech!
Songs of love we'll sing to thee.
Bear our banners far and wide.
Ever to be our pride.
Fearless champions ever be.
Stand on heights of victory.
Strive for honor evermore.
Long live the Matadors.

Fight Song

Fight, Raiders, Fight! Fight, Raiders, Fight!
Fight for the school we love so dearly!
You'll hit 'em high, you'll hit 'em low,
You'll push the ball across the goal.
Tech, fight! Fight!
We'll praise your name, boost you to fame,
Fight for the Scarlet and the Black.
You will hit 'em, you will wreck 'em!
Hit 'em! Wreck 'em!
Texas Tech,
And the Victory Bells will ring out—

The Star-Spangled Banner

Oh, say can you see by the dawn's early light
What so proudly we hail at the twilight's last gleaming
Whose broad stripes and bright stars through the perilous fight
O'er the ramparts we watched were so gallantly streaming.
And the rockets red glare, the bombs bursting in air
Gave proof through the night that our flag was still there
Oh, say does that Star-Spangled Banner yet wave?
O'er the land of the free and the home of the brave.



Give Us One Big Fight

Give us one big fight
Fight
Give us two big fights
Fight, fight
Give us three big fights
Fight, fight, fight

Ride 'Em Raiders

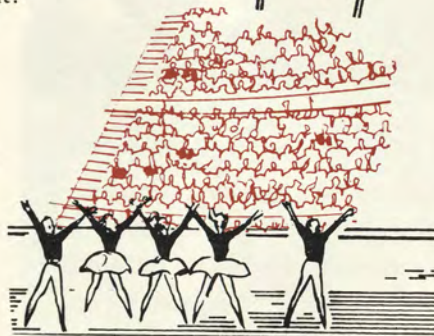
Ride 'em Raiders, ride 'em
Fight 'em Raiders, fight 'em
Ride 'em Raiders, fight 'em Raiders
Give 'em hell, Raiders.

Two Bits

Two bits
Four bits
Six bits
A dollar
All for the Raiders
Stand up and holler

Red, Black

Hit 'em Big Red
Smash 'em Big Black
Red, Black
Raiders



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CHEERLEADERS

Center part of Tech's Double-T is formed from top by Bill Abernathy, Greg Abernathy, Carl Evert and T-Bo Smith. Top of "T" from left, Lynn Alderson, Rhonda Lewis and second row, Penny White and Cindy Saied.



Outfitters and suppliers to The Cheerleaders: Shirts, Field's University Shop; Wind Shirts, T & D Sporting Goods; Shoes, Dom's Ltd.; Slacks, The Sussex; Tennis Shoes, Holt's Sporting Goods; Chevells, Tom Sims Chevrolet Co.; and Phillips 66 credit card, Benton Oil Co.

Trainers



From the left, Greg Lowrance, Steve Brown and Steve Harmon.

Managers



On the rail from left, Bob Percer, Joe Jordon and Tony Keller; seated, Richard Morresy, Royce Thigpen and Jack Butler.

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PIPER SALES AND SERVICE



J T King

J T King, Texas Tech's new athletic director is hard at work conquering new horizons for the University's growing athletic program. Associated with Texas Tech since 1958, first as an assistant football coach then head coach and assistant athletic director, King is well-armed for his new administrative role.

King served as head coach of the Red Raiders for nine years before his promotion to athletic director late last year. He is responsible for guiding Texas Tech's football program from an infant Southwest Conference member to a position of solid respect.

Respected for his dedication and honesty, King was a natural choice as athletic director for Tech.

The Hamburg, Ark., native was one of the prime movers in obtaining the Coaches All-America football Game for Lubbock which was played in June before a record crowd in Texas Tech's Jones Stadium.

During his nine campaigns as head coach, King produced five All-Americans, 18 All-Southwest Conference players and numerous All-Star performers. He was recognized widely as a sound football technician during his coaching days and he is applying the same thoroughness to his role of athletic director. His record at Tech was 44-43-3.

He coached in the East-West Shrine Game after the 1966 season. Following Tech's Gator Bowl appearance in 1965, he flew to Honolulu to coach in the Hula Bowl. He coached in the Blue-Gray contest at Montgomery, Alabama, in 1968.

King is married to the former Beth Buttrill of Lometa. They have four children, John, Charles, Robert, and Betty Jane.



Polk Robison

For 35 years the name Polk Robison has been synonymous with Texas Tech athletics. First as a player, then a coach and athletic director, now director of athletic finance and development, Robison has seen Texas Tech grow from an infant college to a nationally known institution.

Robison's role in Texas Tech sports stands as a milestone in Red Raider athletics. While serving as athletic director, Texas Tech pulled out of the red and into a position of financial security. During his tenure as head of Red Raider athletics, football attendance climbed from 19,475 per game to over 40,000. Basketball games were sold out for years ahead.

Robison was in a large part responsible for the success of Tech's basketball program. He is the winningest coach in Tech history with a 254-195 record. Under his guidance Tech won the border conference title the last three years the Raiders were in the league and upon becoming members of the Southwest Conference were never out of the first division while he was coaching. He won the SWC title in 1960 before handing the reigns over to assistant Gene Gibson so he could devote full time to his duties as athletic director.

In his new duties as director of athletic finance and development Robison helped secure artificial turf and supervised its installation. He also is handling the construction of the new athletic dining hall. Robison was game co-ordinator for the Coaches All-American Football Game played here in July. He is past chairman of the NCAA Basketball Committee and served on the NCAA Television Committee. He is now a member of the NCAA Executive Committee.



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RED RAIDER CLUB

SUPPORTING

TEXAS TECH ATHLETICS

1970-1971

EDUCATIONAL AND ATHLETIC SCHOLARSHIP PROGRAM

In 1929 Herbert Hoover was President of the United States, the Great Depression was making its way over the country, the Model A was the main mode of transportation, and Texas Tech was entering its fifth year of football competition under Coach Grady Higginbotham.

In that same year an organization called the Matador Club was formed to support Texas Tech athletics. Its first president was Spencer Wells, co-owner of Hemphill-Wells.

In 1952 the organization changed its name from the Matador Club to the Red Raider Club because of the team's nickname. Its membership swelled and has grown from a local club to an organization stretching from Houston to Albuquerque, encompassing 23 cities and towns, and having a membership of more than 2500 people.

The club's educational and athletic scholarship program was instituted in 1958. This program provides 142 young men, with athletic and academic abilities, the opportunity for a higher education. It is supervised by the



OFFICERS of The Red Raider Club are seated from left: Roy Furr, Jr., 1st vice president; Dr. James G. Morris, president; George C. Wilson, 2nd vice president. Standing from left: R. H. "Bob" Brummal, 3rd vice president; E. K. Hufstedler, secretary-treasurer; and L. Edwin Smith, immediate past president.

faculty sub-committee on athletic scholarships and is supported by the Red Raider Club membership. Enthusiastically welcomed by business leaders over the Southwest and other friends of the University, the program carries the endorsement of the National Collegiate Athletic Association and the Southwest Conference. The program provides a stabilized athletic program for Texas Tech University.

Two appreciation plaques, one in the athletic department and one in the Lubbock Municipal Coliseum, bear the name of each sponsored scholarship by individuals, community Red Raider Clubs, and business enterprises. Each plaque, 44" x 60" in size, presents the names of the 92 sponsors on an engraved plate.

The Club sponsors weekly Monday luncheons during the football season, and climaxes the school year with an All-Sports Banquet during the spring. One of the outstanding banquets of its type in the nation, it has averaged

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more than 1,500 people per year. Former featured speakers include Tom Landry, Paul "Bear" Bryant, Duffy Daugherty, Bud Wilkinson, and Frank Broyles.

Leete Jackson, executive vice-president of the Club, has helped 15 major colleges and universi-

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USED TO FURNISH
QUALIFYING ATHLETES
WITH ROOM, BOARD,
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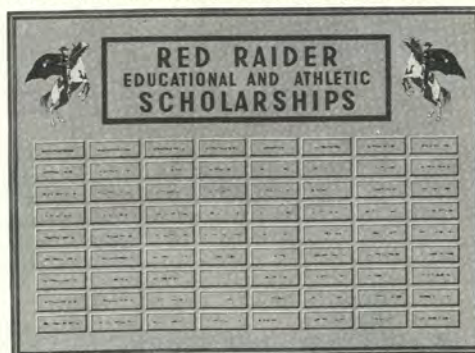


LEETE JACKSON
Exec. Vice President

ties pattern their clubs after Texas Tech's. The Red Raider Club, with 41 per cent of its membership composed of people who have never attended Texas Tech, is one of the finest booster clubs in the country.

Your Support is Recognized in Bronze Plaques

Red Raider Club members have the satisfaction of knowing they are helping worthy young men obtain a higher education and helping build an athletic program which the University deserves. For you to participate, you may request details from the club's executive vice-president, Leete Jackson, 611 Citizens Tower, or Box 456, Lubbock, Texas 79408, or call (806) 762-8680.





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Track, Lubbock, Jr., A&S
- ANDERSON, ROBERT—
Swimming, Corpus Christi, A&S
- BALLARD, JERRY—
Baseball, Odessa, Sr., Eng.
- BARNEY, PHILLIP—
Football, Ft. Worth, Soph., BA
- BATY, ROBERT GAINES—
Football, Garland, Soph., BA
- BENNETT, TERRY—
Tennis, Tucson, Ariz., Soph., A&S
- BEST, ROBERT—
Football, Dallas, Jr., A&S
- BINGHAM, PARK—
Football, Okla. City, Okla., Soph., A&S
- BLACK, EMORY—
Football, Dallas, Soph., BA
- BOSHER, RONALD—
Football, Dallas, Soph., A&S
- BRADY, SCOTT—
Football, San Benito, Jr., A&S
- BROOKS, MORRIS—
Track, McCamey, Soph., A&S
- BROWNING, ROBERT—
Football, Ft. Worth, Jr., A&S
- BURGES, JOHN—
Tennis, San Antonio, Soph., A&S
- BURNETT, LARRY—
Football, Alice, Soph., A&S
- BUSHONG, BRUCE—
Football, Huron, S. D., Jr., A&S
- CARTER, DAVID—
Swimming, Amarillo, Jr., BA
- CASE, HARRY—
Football, Tulsa, Okla., Jr., BA
- CHISHOLM, JAMES—
Tennis, Midland, Soph., Eng.
- COLE, JAMES WILLIAM—
Swimming, Pampa, Soph., A&S
- COMBS, CHARLES E.—
Basketball, Tempe, Ariz., Soph., A&S
- CORLEY, DAVIS—
Football, Bronte, Soph., A&S
- CORNELISON, RANDY—
Football, Borger, Jr., Ed.
- CRISWELL, MARTIN—
Football, Houston, Soph., A&S
- CROCKER, DONALD—
Football, Tulia, Soph., A&S
- DAVIS, DAVID—
Track, Wichita Falls, Jr., BA
- DENMAN, RICHARD R.—
Swimming, San Antonio, Jr., A&S
- DOUGLAS, RONALD—
Basketball, Tulsa, Okla., Soph., A&S
- DOWDY, BRUCE—
Football, Pasadena, Sr., A&S
- DURANT, TOM—
Football, Granbury, Jr., Agr.
- DYER, JIM—
Football, Dallas, Sr., BA
- ELTON, JOHN ALBERT—
Swimming, Pasadena, Soph., A&S
- FIELDS, BILLY KEITH—
Football, Groom, Jr., A&S
- FINCANNON, MARK—
Football, Beaumont, Sr., BA
- FORD, KENNETH—
Track, Lubbock, Soph., A&S
- FRANKS, RANDY—
Football, Lubbock, Jr., BA
- GAMBLE, JOHN—
Football, Lubbock, Soph., BA
- GARCIA, RUBEN—
Baseball, Brownfield, Soph., BA
- GARRETT, WILLIAM—
Track, Stamford, Jr., BA
- GEURIN, ROBERT—
Baseball, Ardmore, Okla., Sr., Ed.
- GNERRE, DAVID—
Track, Fontana, Calif., Jr., A&S
- GRIFFITH, RANDALL—
Football, Andrews, Soph., A&S
- GRIGSBY, RANALD—
Track, McCamey, Sr., A&S
- HAM, PAUL—
Baseball, Andrews, Sr., BA
- HARGRAVE, LARRY—
Football, Cisco, Sr., Engr.
- HARTER, LANCE—
Track, Lubbock, Jr., A&S
- HAZELWOOD, MARK—
Football, Amarillo, Sr., BA
- HENTHORN, MIKE—
Football, Tulia, Soph., BA
- HILL, JON—
Football, Grand Prairie, Jr., BA
- HOYLE, ANDY—
Football, Garland, Jr., Engr.
- HUNTER, MIKE—
Football, Amarillo, Soph., BA
- HURST, HAROLD—
Football, Lawton, Okla., Soph., A&S
- HURT, STEVE—
Baseball, Lubbock, Sr., BA
- INGRAM, DICKIE—
Football, Amarillo, Soph., BA
- INGRAM, RUSSELL—
Football, Garland, Soph., A&S
- JOHNSON, DAVID—
Basketball, Austin, Jr., BA
- JONES, CEDRIC—
Football, San Antonio, Soph., A&S
- KABERLINE, EUGENE—
Basketball, Gruby, Colo., Soph., BA
- KATHS, JAMES—
Track, Dallas, Jr., BA
- KENNEDY, GARY—
Football, Ft. Worth, Soph., BA
- KIRKPATRICK, PAUL—
Football, Mullin, Soph., A&S
- KIRKSEY, GARY—
Football, Lubbock, Soph., A&S
- KLEINERT, JOHN—
Football, Austin, Jr., A&S
- KREMPIN, JAMES—
Football, Temple, Jr., BA
- LANGHEENNIG, MILES—
Football, Brenham, Jr., BA
- LARSON, CHARLES—
Golf, Dallas, Jr., BA
- LAWSON, STEVE—
Football, Memphis, Tenn., Soph., BA
- LOWE, ANDY—
Football, Wellington, Soph., A&S
- LOWE, LOGAN—
Track, Houston, Soph., A&S
- LOWERY, GREG—
Basketball, West Palm Beach, Calif., Jr., BA
- LYONS, HAROLD—
Football, Lufkin, Soph., Engr.
- MASON, WALTER—
Track, Brownfield, Jr., A&S
- MAY, DAVID—
Football, Amarillo, Sr., A&S
- McCURLEY, CLAY—
Swimming, Midland, Soph., A&S
- McCUTCHEN, DOUGLAS—
Football, Bronte, Soph., A&S
- McDERMAND, WAYNE—
Football, Beaumont, Sr., BA
- McDOWELL, HUGH—
Swimming, Andrews, Jr., BA
- McINTYRE, TOMMY—
Football, San Antonio, Jr., BA
- McKEAN, PAT—
Basketball, Amarillo, Sr., BA
- McKINNEY, DAVID—
Track, Pasadena, Soph., Ed.
- MERCER, RONALD—
Track, Gainesville, Sr., Engr.
- MILLER, LESLIE S.—
Basketball, Tulsa, Okla., Sr., A&S
- MOLINARE, LARRY—
Football, Lovington, N. M., Jr., BA
- MOONEY, ROBERT—
Football, San Marcos, Sr., BA
- MUELLER, SID—
Football, Austin, Jr., A&S
- NAPPER, CHARLES—
Football, Dallas, Jr., A&S
- NESTOR, EDWARD—
Swimming, Midland, Sr., A&S
- NEWTON, TOM—
Football, Lubbock, Sr., A&S
- NICOLLE, MIKE—
Football, Arlington, Jr., BA
- NORRIS, CECIL—
Baseball, Beaumont, Soph., BA
- OAKES, MIKE—
Basketball, Albuquerque, N. M., Sr., BA
- ODOM, JOHN—
Football, Ft. Worth, Jr., BA
- OWEN, JOHN—
Baseball, Lubbock, Sr., A&S
- PARKER, JOHN—
Basketball, Hartford, Ky., Soph., A&S
- PERKINS, KENQ—
Football, Lubbock, Jr., Engr.
- PETERSON, LARRY—
Football, Alvin, Soph., Engr.
- PIERCE, JACK—
Baseball, Amarillo, Jr., Engr.
- PRINZ, STEPHEN—
Baseball, Dallas, Jr., BA
- REBOLD, DALE—
Football, Austin, Jr., Ed.
- RIDGE, LARRY—
Swimming, Odessa, Jr., A&S
- RIVES, DONALD—
Football, Wheeler, Soph., A&S
- RIVES, RONALD—
Football, Wheeler, Soph., A&S
- ROGERS, PAT—
Football, Corpus Christi, Soph., BA
- ROGERS, ROBERT MIKE—
Basketball, Dallas, BA
- ROSS, RONNIE—
Football, Dallas, Jr., A&S
- RYAN, JERRY—
Football, Andrews, Jr., Ed.
- SCARBOROUGH, DAVID—
Football, Petersburg, Jr., BA
- SCHACHT, CHRIS—
Swimming, Irving, Jr., A&S
- SCHAFFNER, TIM—
Football, San Antonio, Soph., BA
- SCHILKAB, RICHARD—
Football, Conroe, Jr., Engr.
- SCHRADER, WILLIAM—
Swimming, Odessa, Sr., BA
- SELFE, RICHARD—
Swimming, Houston, Soph., A&S
- SETTLE, JOHN—
Swimming, Dallas, Jr., BA
- SHAW, RICHARD—
Baseball, Borger, Sr., BA
- SHELLEY, DAN—
Basketball, Clovis, N. M., Jr., BA
- SHEPPARD, ERNEST—
Football, Lawton, Okla., Soph., A&S
- SHULER, GARY—
Football, San Antonio, Soph., A&S
- SIBERT, SAM—
Basketball, Chicago, Ill., Jr., A&S
- SKINNER, SAM—
Track, Amarillo, Soph., BA
- SPAIN, DON—
Baseball, Midland
- SPECKMAN, DON—
Golf, Dallas, Jr., BA
- STEARNS, MARCUS—
Swimming, League City, Jr., Engr.
- STEWART, CHARLES—
Football, Kennedy, Sr., A&S
- SULLIVAN, CARROLL—
Football, Crockett, Sr., BA
- TAYLOR, EVERETT—
Basketball, Hartford, Ky., Soph., BA
- THAGGARD, JOE—
Football, San Antonio, Jr., BA
- TUCKER, STUART—
Football, Corpus Christi, Soph., BA
- VAN LOOZEN, STEVE—
Football, Houston, Soph., BA
- VASQUEZ, GILBERT—
Baseball, Odessa, Sr., Ed.
- WADE, LANE—
Football, Abernathy, Sr., A&S
- WALKER, DAVID—
Baseball, Odessa, Sr., A&S
- WATERS, GREG—
Football, San Antonio, Soph., BA
- WATKINS, MIKE—
Football, Stephenville, Jr., A&S
- WATSON, JERRY—
Football, Ranger, Sr., A&S
- WEAVER, JOE M.—
Football, Lubbock, Soph., BA
- WEEKS, MARK—
Track, Amarillo, Jr., A&S
- WHITTENBURG, JO B.—
Tennis, Odessa, Sr., BA
- WILEMON, STAN—
Golf, Arlington, Jr., BA
- WILLIAMS, RONALD—
Track, Dallas, Soph., A&S
- WILLIAMS, STEVE—
Basketball, Pampa, Sr., A&S
- WOOD, LARRY—
Basketball, Houston, Sr., A&S
- YOUNG, ROBERT—
Football, Little Rock, Ark., Jr., Ed.



The 92 Educational and Athletic Scholarships of the Red Raider Club



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ARCH UNDERWOOD	SEARS ROEBUCK & CO.	THE BANKS OF LUBBOCK	THE BANKS OF LUBBOCK	THE BANKS OF LUBBOCK	THE BANKS OF LUBBOCK	THE BANKS OF LUBBOCK	THE BANKS OF LUBBOCK
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AMARILLO (Red Raider Club)	MIDLAND (Red Raider Club)	ABERNATHY (Red Raider Club)	HOBBS, NEW MEXICO (Red Raider Club)	MORTON FOODS	SLATON (Red Raider Club)	PLAINS COOPERATIVE OIL MILL	POST (Red Raider Club)
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Appreciation plaques, displayed in the lobby of the Athletic Department and at the main entrance of Lubbock Coliseum, present the 91 major sponsors of Red Raider scholarships.

These business firms, individuals and community RED RAIDER CLUBS are recognized here for their invaluable support of Texas Tech's athletics. A ★ represents one scholarship.

1970

1971

* The DOUBLE T and Masked Rider design is registered. Reproduction of this emblem must be approved.

Our Charcoal Cody has supported
"The" Red Raider for 7 years



*"The Saddle Shop
with the
Horse on Top"*

*Bill Price's
Western Shop*

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presence



the Broadway Drug
on the streets of
Broadway and University

PRESCRIPTIONS • FOUNTAIN • SUNDRIES

Masked Raider

When Joe Kirk Fulton jumped on a cowpony named Blackie and led the Red Raider football team onto the field at the 1954 Gator Bowl he started a tradition at Texas Tech that has to rank as one of the most colorful grid entrances in the country.

Fulton, with scarlet and black cape flowing behind him, circled the field on the black quarterhorse, and when he came by the Tech dressing room the Raider gridders streamed out onto the field behind him.



Ed Danforth, a writer for the Atlanta Journal and a press box spectator, wrote, "No team in any bowl game ever made a more sensational entrance."

Every year since the 1954 episode Tech's colorful masked rider has led Tech grid teams onto the field, and this season the 10th rider in the history of the school — Tommy Martin, a junior from Throckmorton — will continue the tradition.

Blackie, the first mascot, was donated by Jim St. Clair. Tech Beauty was the next official horse, although horses ridden prior to that were individual horses of the riders. Beauty, who captured the hearts of a campus and a conference, died in the spring of 1964, two weeks before she was to have given birth to her fifth foal.

Beauty's replacement was Charcoal Cody, who is still serving as Tech's mascot. Charcoal is owned by Bill Price and weighs about 1,200 pounds and stands 14½ hands high. He is a 19-year-old black gelding.

Former masked riders are: Fulton, 1953-55; Jim Cloyd, 1956-57; Donald "Polly" Hollar, 1958-59; J. H. "Hud" Rhea, 1959-61; Kelley Waggoner, 1961-62; Bill Durfey, 1962-63; Douglas "Dink" Wilson, 1964-65; Douglas "Nubbin" Hollar, 1966-67; and Johnny Bob Carruth, 1968-69.

The Raider has the use of a station wagon for pulling the horse trailer to out-of-town games. For five years the vehicle was supplied by Scoggin-Dickey Buick Co. This season marks the fourth year for the wagon to be supplied by Modern Chevrolet.

FOLD OUT, CLIP & SAVE

Academic Excellence Given Top Priority

Growth, expansion and constant broadening of the total concept of higher education identify Texas Tech University as an outstanding institution and have been synonymous with Tech since it opened its doors 45 years ago.

Academic excellence continues to receive the highest priority from all persons connected with the institution.

The curriculum has developed in scope and depth to keep pace with the demands of a student body which has grown from 910 in Tech's first year to approximately 20,000 in the fall of 1970.

Enrolled in the university's eight academic divisions—the colleges of Agricultural Sciences, Arts and Sciences, Business Administration, Education, Engineering, Home Economics, the Graduate School and the School of Law—students may work toward bachelor's degrees in more than 100 areas, master's in 61 and doctorates in more than 25.

Tech's students—drawn from all 50 states and more than 40 foreign countries—represent a diversity of interests, backgrounds and goals.

To serve these diverse needs, Texas Tech is committed, as one of the state's four major universities to continuous improvement of its education, research and public service programs.

With these goals in mind, Tech offers a broad spectrum of courses. Its laboratory facilities offer opportunities for research in many specialized areas.

Texas Tech University is a member institution of the Western Information Network, the Gulf Universities Research Corporation, National Association of State Universities and Land Grant Colleges, the Southwest Alliance for Latin America and the Organization of Tropical Studies, Inc.

Tech holds membership in the prestigious Southern Association of Colleges and Schools, the accrediting body for this region, and in the Association of Texas Colleges and Universities, accrediting organization for the state.

The recently expanded Textile Research Center is one of the few facilities in the world capable of studying textile processing from fiber production to the finished product.

Significant contributions toward solutions of environmental problems and to industry are being made by the university's Water Resources Center. Among these are special studies in water and land conservation, livestock and crop production, water pollution and purification, waste disposal and urban water quality.

Tech serves West Texas, the Southwestern United States and the world through its International Center for Arid and Semi-Arid Land Studies (ICASALS), a facility designed to foster research in all disciplines related to the arid and semi-arid nations of the earth and to effect an interchange of ideas and information concerning these lands.

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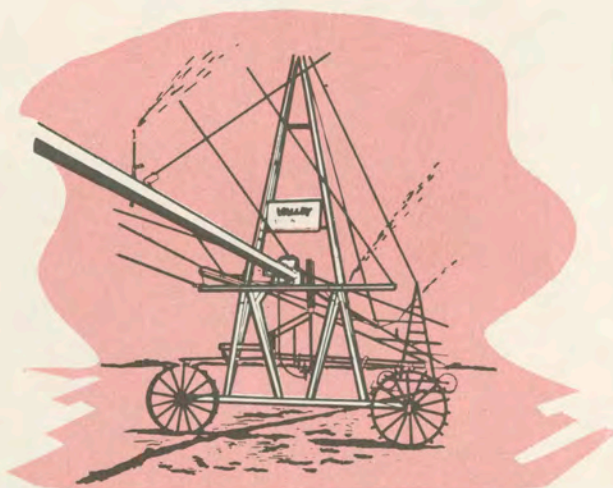
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FANS SEE NEW LOOK

Stadium Boasts Excellent Playing Field

The smooth, staccato voice of the late Kern Tips blared over the radio as he set the stage for the next play.

"It's third and two . . . Wilson the man under . . . it's a pitchout to Anderson and there's daylight ahead . . . oops, he lost his footing behind the line of scrimmage and I can guarantee you that Donnie is a disappointed young man at the moment . . ."

The year was 1965 and there have been many changes at Texas Tech and in the Southwest Conference. Tips, the famed and respected announcer for the Humble Football Network, has passed away; Anderson has gone to the pros; Wilson is on the Tech coaching staff; and the Raiders are playing under a new coach as they enter a new decade.

Another change that fans will be quick to notice is the new suit of green that coats the stadium floor at Jones Stadium. The new synthetic grass is AstroTurf and it will add a new dimension to football.

For one thing it should eliminate the type of unfortunate spill taken by Mr. Anderson in 1965 because it will provide a more sure footing. It will speed up the game because the backs and receivers will be able to make quicker cuts and the new surface will completely eliminate games played in the mud.



The Monsanto workmen lay the foam rubber padding atop the asphalt surface. The next step is the laying of the turf.

One of the major advantages of synthetic turf is the reduction of knee injuries to players. The surface, although it provides sure footing, will cause the shoe to slide when hit, rather than become imbedded in the grass and susceptible to injuries.

A new type of shoe will have to be worn on the turf. On grass, players needed longer cleats to penetrate the sod, but with synthetic turf a lightweight soccer type of shoe will be worn.

The actual turf is made of nylon which is glued to a thick foam rubber padding. The padding in turn is glued to a asphalt base.

A 14-foot wide red Tartan track circles the field, making Jones Stadium one of the most colorful stadiums in the country. The Tartan track will be used for jogging, and for the ride of Texas Tech's masked rider before each home football game.

Texas Tech is one of 27 colleges in the nation to install AstroTurf. In addition to the colleges there are seven professional fields covered with the artificial turf, eight municipal installations, and two junior college stadiums.

The AstroTurf story at Texas Tech began just after the completion of the 1969 football season. Athletic officials agreed that Texas Tech should have synthetic turf by 1970 and they put the plan in motion that culminated in June of the next year.

More on 73



**Braniff International
has a non-stop flight
from Dallas/Fort Worth
to Miami, today!**





The AstroTurf is laid in alternating strips atop the foam rubber padding. Heavy glue cements the synthetic turf to the pad.

Kerr Construction company of Lubbock removed the top soil from the grass surface, refilled it, packed it, and layed the asphalt topping on the floor of the stadium from which the pad was glued.

Dr. William L. Ducker, chairman of the petroleum engineering department at Texas Tech, acted as consulting engineer for the project.

The first game action on the new AstroTurf was witnessed by 42,000 fans at Jones Stadium and millions on television as the Coaches All-America Football Games christened the turf.



Nearing the last phase of the installation, workmen lay long strips of AstroTurf to cover the field. Next is the stitching.

The first play from scrimmage on Tech's new "grass" came on a nine yard pass from Dennis Shaw, the nation's total offense leader, to Jerry Henden, the nation's leading pass receiver.

It was a fitting inaugural to Clifford B. and Audrey Jones Stadium's new look.



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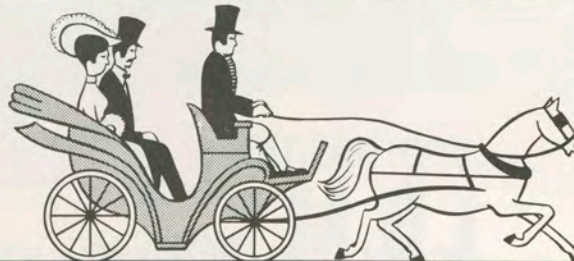
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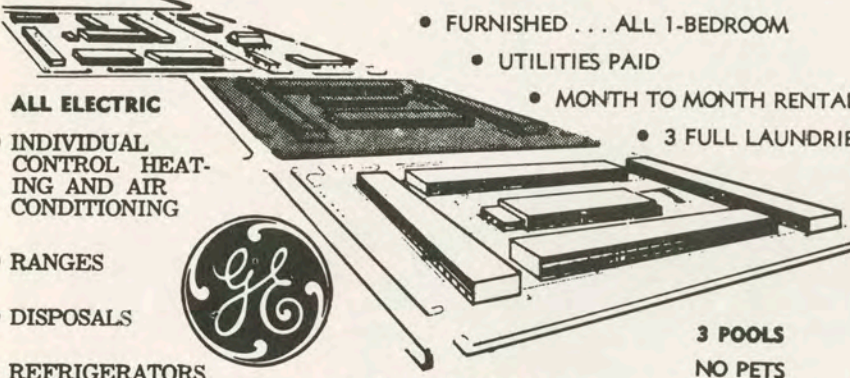


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TEXAS TECH BASKETBALL

1970-1971

Dec. 1—San Diego State	Lubbock
Dec. 4—Oregon	Eugene
Dec. 5—Washington	.....	Seattle
Dec. 7—Oklahoma	.....	Norman
Dec. 12—Arizona	.....	Lubbock
Dec. 14—New Mexico	.....	Lubbock
Dec. 19—Southern Illinois	.....	Lubbock
Dec. 22—Colorado	.....	Lubbock
Dec. 28-29—Roadrunner Inv.	.....	Las Cruces
(U. of Pacific, U. of Seattle, New Mex. State, Texas Tech)		
Jan. 2—Mex. Olympic Team	.....	Mex. City
Jan. 4—Mex. Olympic Team	.....	Mex. City
Jan. 12—Arkansas*	.....	Lubbock
Jan. 19—Texas Christian*	.....	Fort Worth
Jan. 23—Texas*	.....	Lubbock
Jan. 30—Texas A&M*	.....	College Station
Feb. 2—Baylor*	.....	Lubbock
Feb. 6—Rice*	.....	Houston
Feb. 9—Southern Methodist*	.....	Dallas
Feb. 13—Texas Christian*	.....	Lubbock
Feb. 16—Texas*	.....	Austin
Feb. 20—Texas A&M*	.....	Lubbock
Feb. 23—Arkansas*	.....	Fayetteville
Feb. 27—Southern Methodist*	.....	Lubbock
Mar. 2—Rice*	.....	Lubbock
Mar. 6—Baylor*	.....	Waco

* Southwest Conference Game



All Americas

E. J. HOLUB was the first Texas Tech player to make a major All-America team. Holub, playing center and linebacker, made the All-America list in 1959 and 1960. As a junior, Holub was first team on the Football Writer's and NEA teams and as a senior was a near consensus choice. Holub was the number one draft choice of the Dallas Texans, now the Kansas City Chiefs. He is now the starting center, after starring at linebacker for several seasons.

Outstanding blocking, circus catches, and constant hustle enabled **DAVID PARKS** to become Tech's second All-America. Parks, playing split end in 1963, became the first Red Raider to make the Associated Press All-America team. Parks, who was an All-Pro end for the San Francisco Forty-Niners, was the NFL's first draft choice in 1964. Parks was a Texas Tech co-captain in 1963 and was the first recipient of the Pete Cawthon Memorial Award for Tech's best gridder. Parks was the first Tech player to make All-SWC twice.

DONNY ANDERSON, a three time All-SWC selection, made All-America in 1964 and 1965. Most of Anderson's career and season marks are Tech records. He holds virtually every SWC kickoff return mark and ranks high among the conference's all-time greats in rushing and receiving. Was Sporting News' co-player of the year in 1965 and was outstanding player in the 1965 Gator Bowl. Anderson was a first round selection of both the NFL and AFL as a junior. He is now a halfback with the Green Bay Packers.

In 1967 **PHIL TUCKER** became Tech's fourth All-America, as he was selected by the NEA at a first team guard position. Aided by Tucker's ferocious blocking, the Red Raiders ranked third nationally in rushing. His hard charges enabled Tech to rank third nationally in punt return defense in 1966 and 1967. Tucker was a three year starter for the Red Raiders. He played briefly with the Edmonton Eskimos of the Canadian Football League.

Kicking specialist **KENNY VINYARD** was named to the Sporting News All-America squad in 1968 to become Tech's fifth honoree. He holds SWC record for longest field goal with a 55-yarder against TCU in 1966. Vinyard tied SWC mark with nine field goals in one season. In a three year career he punted for a 39.8 average and allowed an average of less than three yards per return. As a senior had a perfect 30 for 30 mark in the extra point department. He signed with Green Bay Packers.

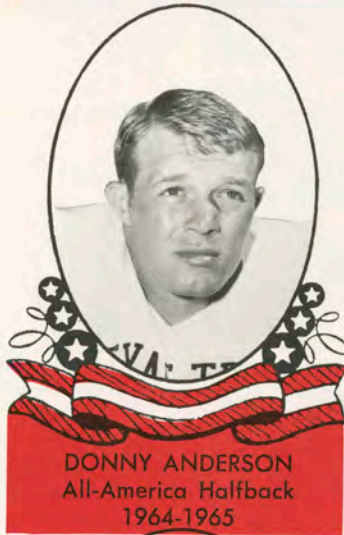
Defensive halfback **DENTON FOX** became Tech's sixth All-America player, marking the third straight year for a Red Raider to claim national honors. Fox, who intercepted four passes and returned them 101 yards, was drafted in the third round by the Dallas Cowboys. Fox was named by the Football Writers Association to a first team defensive halfback spot. The Claude, Texas, native was co-captain in 1970.



E. J. HOLUB
All-America Center
1959-1960



DAVID PARKS
All-America End
1963



DONNY ANDERSON
All-America Halfback
1964-1965



PHIL TUCKER
All-America Guard
1967



KENNY VINYARD
All-America Place Kicker
1968



DENTON FOX
All-America Halfback
1969

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ATHLETIC HALL OF HONOR

Every since 1961 the Texas Tech Dads Association has inducted two former athletic standouts into the Athletic Hall of Honor. This season at the halftime of the Texas Christian game two more men will be installed, bringing the total to 25.

Gerald Myers and Jerry Walker were inducted into the Hall in 1969. Myers was named to the UPI Little Man All-America first team and was an all-NCAA District 6 selection while becoming the first all-Southwest Conference athlete at Texas Tech. Myers coached at Lubbock Monterey High School and was the city's winningest coach with a 150-50 record in eight years. Two of his teams were state finalists. Myers later became head coach at Houston Baptist before being named as a Tech assistant in 1970.

Walker, who placed football from 1952-56 was named all-Border Conference three years after starting four years for the Raiders. Following the 1955 season, he was named to the Gridiron Weekly All-America first team, Williamson All-America second team; and was All-America honorable mention on both the AP and UPI teams.

The Dads Association sponsors the annual event and the 1961 president, Paul Gustwick, explains the qualifications for election:

"To be eligible to receive the award, the recipient shall possess or shall have

possessed, in addition to outstanding ability in a sport or sports, other qualifications such as sportsmanship, character, integrity, and be a person who has brought distinction to Texas Tech or served the school with distinction in its athletic program.

"Candidates, if living former athletes, must have been out of Texas Tech for at least five years prior to election. Not more than two candidates shall receive the award after the first year."

In 1961 five men were named for the initial honor: Ransom Walker, Elmer Tarbox, Pete Cawthon, Walter Schlinkman, and Dean W. L. Stangel.

In 1962 the Dad's Association named the late Hurley Carpenter and Marsh Farmer to the Hall.

The late J. O. (Dell) Morgan was inducted in 1963 along with (Mule) Dowell. Morgan was head football coach from 1941 to 1950. The Dell Morgan Courage Award was established in his honor.

The 1964 inductees were Charles Wooldrige and George Langford. Wooldrige served on Tech's Board of Directors from 1947-'53. Lankford was one of 10 alumni who founded the 100 Club that began the present Ex-Students Association.

In 1965, L. Edwin Smith and Volney (Satch) Hill were inducted.

In 1966, Tech's first football captain, Winfield (Windy) Nicklaus, was inducted along with Brig. Gen. Ross Ayers, now

an Adjutant General, he is the commander of the Texas National Guard, appointed to the post by Gov. Preston Smith.

The 1967 honorees were Jim Reed and Marshall Gettys. Reed was named to the Helms All-America team in 1956.

Gettys was honorable mention All-America for two seasons.

In 1968 Bobby Cavazos and Walker Nichols, a pair of former grid standouts, were inducted. Cavazos, a second team All-American halfback who starred for Tech from 1951-53, Nichols was freshman coach in 1941 also serving as track coach.



1969 Inductees, Walker and Myers



(Kickoff times are local for game sites)

Sept. 11 (Fri.)	— Baylor vs. Missouri @ St. Louis.....	8:00 p.m.
(TV) Sept. 12 (Sat.)	— Stanford @ Arkansas (Little Rock).....	5:05 p.m.
Sept. 12 (Sat.)	— Oklahoma @ SMU.....	7:30 p.m.
Sept. 12 (Sat.)	— Wichita @ Texas A&M.....	7:30 p.m.
Sept. 12 (Sat.)	— UTA @ TCU.....	7:30 p.m.
Sept. 12 (Sat.)	— Tulane @ Texas Tech.....	7:30 p.m.
Sept. 19 (Sat.)	— Oklahoma State @ Arkansas (Little Rock).....	7:30 p.m.
Sept. 19 (Sat.)	— Baylor @ Army.....	2:00 p.m.
Sept. 19 (Sat.)	— VMI @ Rice.....	7:30 p.m.
Sept. 19 (Sat.)	— SMU @ Tennessee.....	2:00 p.m.
Sept. 19 (Sat.)	— California @ Texas.....	4:00 p.m.
Sept. 19 (Sat.)	— Texas A&M @ LSU.....	7:30 p.m.
Sept. 19 (Sat.)	— TCU @ Purdue.....	1:30 p.m.
Sept. 19 (Sat.)	— Texas Tech @ Kansas.....	1:30 p.m.
Sept. 26 (Sat.)	— Tulsa @ Arkansas.....	2:00 p.m.
Sept. 26 (Sat.)	— Pittsburgh @ Baylor.....	7:30 p.m.
Sept. 26 (Sat.)	— Rice @ LSU.....	7:30 p.m.
Sept. 26 (Sat.)	— New Mexico State @ SMU.....	2:00 p.m.
Sept. 26 (Sat.)	— Texas @ Texas Tech (SWC).....	7:30 p.m.
Sept. 26 (Sat.)	— Texas A&M @ Ohio State.....	1:30 p.m.
Sept. 26 (Sat.)	— TCU @ Wisconsin.....	1:00 p.m.
Oct. 3 (Sat.)	— Arkansas @ TCU (SWC).....	7:30 p.m.
Oct. 3 (Sat.)	— Baylor @ LSU.....	7:30 p.m.
Oct. 3 (Sat.)	— California @ Rice.....	7:30 p.m.
Oct. 3 (Sat.)	— SMU @ Northwestern.....	1:30 p.m.
Oct. 3 (Sat.)	— UCLA @ Texas.....	4:00 p.m.
Oct. 3 (Sat.)	— Texas A&M @ Michigan.....	1:30 p.m.
Oct. 3 (Sat.)	— California (Santa Barbara) @ Tech.....	7:30 p.m.
Oct. 10 (Sat.)	— Baylor @ Arkansas (SWC-Little Rock).....	7:30 p.m.
(TV) Oct. 10 (Sat.)	— Texas vs. Oklahoma @ Dallas.....*	12:20 or 3:20 p.m.

Oct. 10 (Sat.)	— Texas Tech @ Texas A&M (SWC).....	7:30 p.m.
Oct. 10 (Sat.)	— TCU @ Oklahoma State.....	2:00 p.m.
Oct. 17 (Sat.)	— Rice @ SMU (SWC).....	7:30 p.m.
Oct. 17 (Sat.)	— TCU @ Texas A&M (SWC).....	7:30 p.m.
Oct. 17 (Sat.)	— Texas Tech @ Miss. State.....	7:30 p.m.
Oct. 24 (Sat.)	— Wichita @ Arkansas (Little Rock).....	7:30 p.m.
Oct. 24 (Sat.)	— Texas A&M @ Baylor (SWC).....	7:30 p.m.
Oct. 24 (Sat.)	— Texas @ Rice (SWC).....	7:30 p.m.
Oct. 24 (Sat.)	— SMU @ Texas Tech (SWC).....	2:00 p.m.
Oct. 31 (Sat.)	— Arkansas @ Texas A&M (SWC).....	1:30 p.m.
Oct. 31 (Sat.)	— Baylor @ TCU (SWC).....	2:00 p.m.
Oct. 31 (Sat.)	— Texas Tech @ Rice (SWC).....	7:30 p.m.
Oct. 31 (Sat.)	— SMU @ Texas (SWC).....	2:00 p.m.
Nov. 7 (Sat.)	— Rice @ Arkansas (SWC).....	1:00 p.m.
Nov. 7 (Sat.)	— Texas @ Baylor (SWC).....	2:00 p.m.
(TV) Nov. 7 (Sat.)	— Texas A&M @ SMU (SWC).....	12:50 p.m.
Nov. 7 (Sat.)	— TCU @ Texas Tech (SWC).....	2:00 p.m.
Nov. 14 (Sat.)	— SMU @ Arkansas (SWC).....	1:00 p.m.
Nov. 14 (Sat.)	— Texas Tech @ Baylor (SWC).....	2:00 p.m.
Nov. 14 (Sat.)	— Rice @ Texas A&M (SWC).....	1:30 p.m.
Nov. 14 (Sat.)	— Texas @ TCU (SWC).....	2:00 p.m.
Nov. 21 (Sat.)	— Arkansas @ Texas Tech (SWC).....	2:00 p.m.
Nov. 21 (Sat.)	— Baylor @ SMU (SWC).....	2:00 p.m.
Nov. 21 (Sat.)	— TCU @ Rice (SWC).....	2:00 p.m.
Nov. 26 (Thur.)	— Texas A&M @ Texas (SWC).....	2:00 p.m.
Nov. 28 (Sat.)	— Rice @ Baylor (SWC).....	2:00 p.m.
Nov. 28 (Sat.)	— SMU @ TCU (SWC).....	2:00 p.m.
(TV) Dec. 5 (Sat.)	— Arkansas @ Texas (SWC).....	1:50 p.m.

* Starting time depends on site of World Series game on that date.

TEXAS TECH FUTURE SCHEDULES

1971

Sept. 11	Tulane at New Orleans
Sept. 18	New Mexico at Lubbock
Sept. 25	Texas at Austin
Oct. 2	Arizona at Tucson
Oct. 9	A&M at Lubbock

Oct. 16	Boston C. at Lubbock
Oct. 23	SMU at Dallas
Oct. 30	Rice at Lubbock
Nov. 6	TCU at Fort Worth
Nov. 13	Baylor at Lubbock
Nov. 20	Arkansas at Fayetteville

1972

Sept. 16	(To Be Named)
Sept. 23	U. of N.M. at Albuquerque
Sept. 30	Texas at Lubbock
Oct. 7	Okla. St. at Stillwater
Oct. 14	Texas A&M at College Sta.

Oct. 21	Arizona U. at Lubbock
Oct. 28	SMU at Lubbock
Nov. 4	Rice at Houston
Nov. 11	TCU at Lubbock
Nov. 18	Baylor at Waco
Nov. 25	Arkansas at Lubbock

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The strength of a university is found in its faculty

The new dean of the College of Business Administration is one of the few professors at Texas Tech University who has practiced what he preaches.

DR. JACK STEELE, who arrived at Tech in April, was formerly an owner of a private business, is on the board of directors of five different businesses, and has spent three years with the Xerox Corporation as general manager of the New York operations of the Xerox Education Group.

As general manager of this operation, Dr. Steele had the profit and loss responsibility to plan, organize, and direct three operations, he said. They had to do with design, production and distribution of educational materials through a direct sales force to the formal school market; design, production and distribution of learning materials for executive development through an additional direct sales force to the industrial training market, and custom contract work for federal, state, and local governments.

Dr. Steele has also had numerous teaching assignments including positions in Costa Rica, Switzerland, Australia and Singapore.

He has done consulting work with more than 15 corporations and institutions of higher education and has published several technical and professional books and articles.

Prior to joining Xerox, Dr. Steele served as professor of business administration at Texas A&M from 1950-53, at the University of Kansas from 1956-64 and at Stanford from 1964-68.

He also was with the Harvard School of Business from 1953 to 1956 while working on his doctorate there, which he received in 1956.

His master of business administration degree came from the University of Kansas in 1951 and his bachelor of science from Missouri Valley College in 1948.

Dr. and Mrs. Steele have two children, Don, 20, senior at Stanford University and daughter Sherie, 17, freshman at Middlebury (Vermont) College.

The interim dean of the Texas Tech University Graduate School is one of the few professors who manages to get away from his busy desk once in a while.



STEELE



LANGFORD

DR. THOMAS A. LANGFORD, who assumed his duties Aug. 1, travels two to three times a year to Washington, D.C. "However," said Dr. Langford, "the trip is all business. I serve as consultant for the Division of University Programs in the United States Office of Education."

His trips to the nation's capitol involve reading and rating proposals for the Title IV NDEA Graduate Fellowship Programs and the Institutional Assistance Grant Program.

Langford will serve as dean of the Graduate School until the arrival of Dr. J. Knox Jones of the University of Kansas, who will assume duties as dean of the Graduate School June 1, 1971.

The professor of English received his bachelor of arts degree from the University of California at Riverside in 1956, his master's degree from Texas Tech in 1963, and his doctorate from Texas Christian University in 1967.

He has done other college and university work at San Bernardino Valley College and the University of Tulsa.

Dr. Langford taught in Charles Page High School in Sand Springs, Okla., from 1959 to 1961, was a teaching fellow at Tech from 1961 to 1963, a university fellow at Texas Christian from 1963 to 1965, instructor at Tech from 1965 to 1967, and became regional coordinator, Graduate Programs Division, U.S. Office of Education in 1967. He served in this position until he joined the Tech faculty again in 1968.

He holds memberships in the Modern Languages Association, South Central Modern Languages Association, Texas Conference of College Teachers of English and the American Association of University Professors.

A prolific writer, Dr. Langford has authored a number of articles in scholarly journals related to his field. He has also found time to write 32 articles which have been published in five religious periodicals of national circulation.

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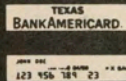
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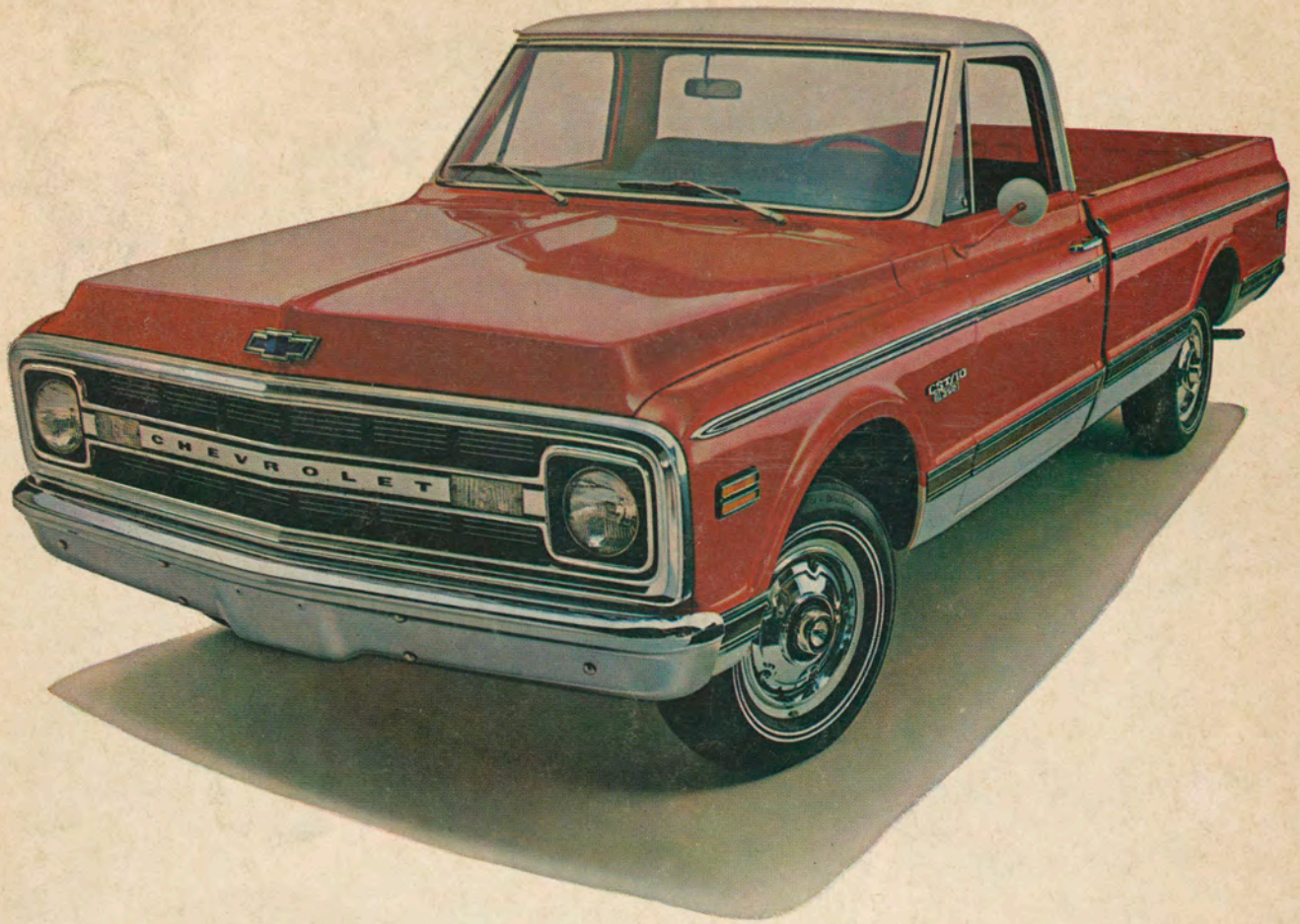
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Get a status symbol that carries some weight.

The time is past when people thought of a truck as strictly a workhorse.

In fact, Chevy pickups are being used for so many personal and leisure time activities that they've become a kind of symbol for a new life-style.

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Our pickups combine the luxury and utility today's on-the-go

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Even air conditioning, bucket seats and carpeting.

And with it all you get the practicality of a "trunk" up to 8½ feet long. Try that out for size on your next shopping trip. Or vacation

trip. Or football outing.

The man to see is your Chevrolet dealer. He'll show you more reasons why Chevy pickups are so popular.



Putting you first, keeps us first.