



The Battalion

Drive Safely

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Aggies Win 'Big Play' Showdown With 20-16 Victory Over Alabama

'67 Saw Research In Space, Atom

Texas A&M, once primarily an agricultural institution, took giant steps into the space and nuclear ages during 1967.

In the early morning hours of Dec. 2, exactly 25 years after the world's first controlled chain nuclear reaction, scientists at A&M's Cyclotron Institute released a beam of nuclear particles from the massive 300-ton machine. The pencil-like blue beam signaled the beginning of a significant new capability for scientific research in the Southwest.

Two days later, Dr. Glenn T. Seaborg, chairman of the U. S. Atomic Energy Commission, led a list of dignitaries in dedicating the \$6 million facility.

DURING THE latter part of August, the university played host to the American Institute of Biological Sciences. This big amalgamation of scientific societies, representing almost 70,000 biologists over the world, heard more than 1,000 papers on topics ranging from alteration of heredity to possible characteristics of plant life on Mars.

While A&M moved in new directions, it by no means meant that agricultural research had slackened. New strains of plants were released, farming operations were analyzed by computers and basic plant genetic work was accomplished.

The featured AIBS convention speaker, Agriculture Secretary Orville Freeman detailed plans to cope with the urban shifts of the population.

The university's Institute of Tropical Veterinary Medicine was coming to grips with one aspect of the world food problem during 1967. Scientists were studying ways of combating cattle diseases in Colombia.

OTHER WORK in fish protein concentrate carried on at A&M is aimed at the problem of deficient diets of the world's populations.

During 1967, the university established a new Institute of Life Sciences with the purpose of studying biological processes as a whole, rather than as fragments.

University National Bank
"On the side of Texas A&M"
—Adv.

ed parts. The new approach promises important new insight as man begins to consider the whole world as a biological unit subject to the ills of pollution.

In July, the university was selected by the Department of Defense to establish "centers of excellence" in optimization and meteorology under a large Project Themis grant.

BEHIND MANY regimes of research and teaching lie mathematical analysis. In December, A&M's Data Processing Center installed a new IBM 360/65 computer with bigger capacity and greater speed than the IBM 7094 which had been in use. The latter computer was installed at the Cyclotron Institute where it may eventually monitor operations of the cyclotron.

The university has operated a nuclear reactor several years. New cooling facilities were installed this year to accommodate new and more powerful fuel elements to be added in 1968. The new reactor core will allow continuous operation at a million watts and can be pulsed at 2,000 million watts for four thousandths of a second.

A number of experiments involving biological tolerance to radiation were carried out during the year.

THE UNIVERSITY also provided support to the nation's space effort throughout the year. Scientists worked on structural considerations of the Apollo spacecraft, the vehicle which one day will take men to the moon.

During the summer of 1967, A&M acquired a powerful radioactive Cobalt source—possibly the most active for its size on any university campus. Basic work in physics is being carried out with the source.

A&M is stressing the interdisciplinary approach to research problems. Workers from different fields collaborate—a system quite different from the old idea of the lone scientist carrying out work in a garret.

Collaboration in the disciplines of electrical, chemical and aerodynamics engineering produced the successful firing of the first sodium-potassium underwater propulsion device during the fall of 1967.

Hargett, Housley Lead Cotton Win

BY GARY SHERER
Battalion Sports Editor

Aggie Coach Gene Stallings took a ride on New Year's Day. It proved to be a short trip but the author of one of this year's top football stories enjoyed every second of it.

The transportation was provided by Stallings' former coach, boss and still trusted advisor—Paul 'Bear' Bryant.

THIS WAS BRYANT'S way of showing the 75,000 plus Cotton Bowl spectators that his longtime pupil deserved all the plaudits he was going to receive. All this came about after the Aggies had beaten Alabama's Crimson Tide 20-16 and put College Station (specifically) and the Southwest Conference (in general) back on the map.

The Cotton Bowl victory was a fitting climax to a confusing 1967 football season. It was the caper to a season that had begun with the Aggies, Texas and Arkansas picked as co-favorites in the SWC.

But, all three of the favorites lost their first two games and—enter confusion.

Then, Texas and Arkansas stopped their losing skeins but the Aggies' streak lasted through games three and four. All the scribes who had said the Aggies were contenders now called on their regular line of rationaliz-

ing, "well (ahem) you know the Aggies."

STALLINGS, however, didn't rationalize, he improvised. That improvisation may well parallel the job done by the 'minutemen' militia on the British back in revolutionary days.

Combining many offensive and defensive changes along with some good old-fashioned luck, the Aggies won their last six games. All of those games were SWC contests and the Maroon and White grabbed its first title in 10 years.

Then, after the dust cleared following the 10-7 Turkey Day victory over Texas, Bryant and Alabama were selected as the Aggies opponents in the Cotton Bowl.

It was Alabama that provided the competition for A&M the last time the Aggies had been invited to the Dallas Classic. At that time, the Tide topped the Aggies 29-21. That New Year's victory 26 years ago, still is the only time Alabama has won in the Cotton Bowl. The Tide also lost in 1953 when an off-the-bench tackle by an excited Alabaman provided the only anxiety for Tide rooters as Rice topped Alabama 28-7.

IN THAT same year of 1953, Gene Stallings entered Texas A&M and Bear Bryant was still a year away from taking over as A&M head coach.

However, in 1954, the opposing coaches of the 1968 Cotton Bowl game, started an association that continued until Stallings came back to College Station in 1965. During that 10-year period, Stallings learned from Bryant and the Bear turned out to be a good teacher.

All this preparation came to a head four days ago as pupil and teacher met for the first time, in the 'arena.'

The oddsmakers looked on this game as a victory for the teacher as Alabama was installed as a six-point favorite. Bryant's seasoned veterans (third bowl in a row) were looked on as too tough for Stallings' big play miracle workers.

IT LOOKED like the pickers were correct as the Tide scored on their second possession and took a 7-0 lead. The Aggies however, used one of their most potent weapons this year, the interception, and came back with a score. One of the parts of Stallings' improvising, Tommy Maxwell, grabbed a Ken Stabler pass and the Aggies turned the break into a touchdown.

The six points came on a comeback pass from Edd Hargett to Larry Stegent and the game was tied. Alabama came right back with a field goal and Aggie fans held their breath. It looked like the 10-7 score would last right up to halftime but Hargett hit the all-purpose Maxwell with a bullet aerial with just seconds remaining in the second quarter. Charlie Riggs continued his losing battle with the right side of the goal post as his extra point try bounced off. This made it 13-10 Aggies with another two quarters to play.

HOWEVER, a three-point lead over Alabama is not too safe so Wendell Housley made it six points bigger with a third quarter run that left the field strewn with would-be Alabama tacklers. Then, the last twenty minutes of this game provided a lot of excitement for the chilled (40 degrees at game time) assemblage. Included in these exciting moments were: an Alabama touchdown, the officials forgetting how to count, and a crucial interception by Curley Hallman.

Finally, when the clock read no time left, the Aggies were still four points ahead and the Cotton Bowl championship returned to the SWC after a two-year absence.

N-Engineering Gets NSF Aid

Texas A&M has been awarded a \$16,400 National Science Foundation grant for a nuclear engineering summer institute.

Dr. Robert G. Cochran, A&M's Nuclear Engineering Department head, will direct the institute involving 20 college science and engineering teachers.

Cochran said the institute hopes to receive a \$10,460 grant from the U. S. Atomic Energy Commission, a co-sponsor for the past six institutes.

A&M received approximately \$160,000 in grants for earlier institutes.

Aiding Cochran in teaching the six-week institute which begins June 3 will be Dr. James D. Smathers and Dr. Richard D. Neff.

'Paul Revere, Raiders' Set For 8 p.m. Performance

"Paul Revere and the Raiders," rated in a national survey as top group in the country during 1967, will be featured in a Town Hall "Extra" program Friday at Texas A&M.

The performance at 8 p.m. in G. Rollie White Coliseum also spotlights two additional popular

groups, "The Dream Machine" and "Michael."

In the Current Scene Magazine survey, "Paul Revere and the Raiders" finished first over groups including "The Monkees," "Diana Ross and the Supremes," "The Beatles," and "The Herms."

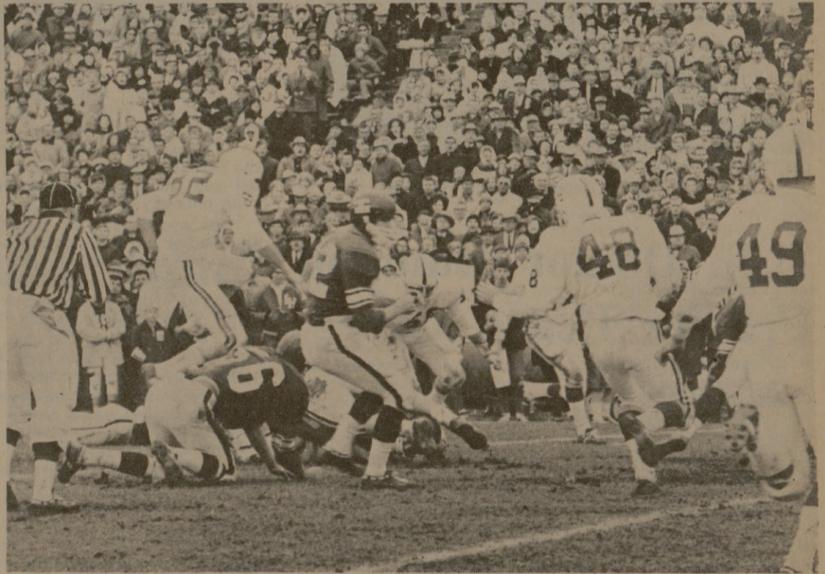
Robert Gonzales, chairman of the sponsoring Memorial Student Center Town Hall Committee, said a member of the group, saxophonist and guitarist Mark Lindsay, was listed high in the survey for most outstanding instrumentalist. He was edged out by Herb Alpert, but was in the midst of such company as Al Hirt, Bob Crewe and Ravi Shankar.

Other members of Revere's group are Freddy Weller, Joe Jr., and Charlie Coe. Some of their best-received records are included in an album labeled "Revolution!" Included are "Him or Me . . . What's It Gonna Be?," "Reno," "Upon Your Leaving," "Mo-Reen," "Wanting You," "Gone—Movin' On," "I Had a Dream," "Tighter," "Make It With Me," "Ain't Nobody Who Can Do It Like Leslie Can," and "I Hear a Voice."

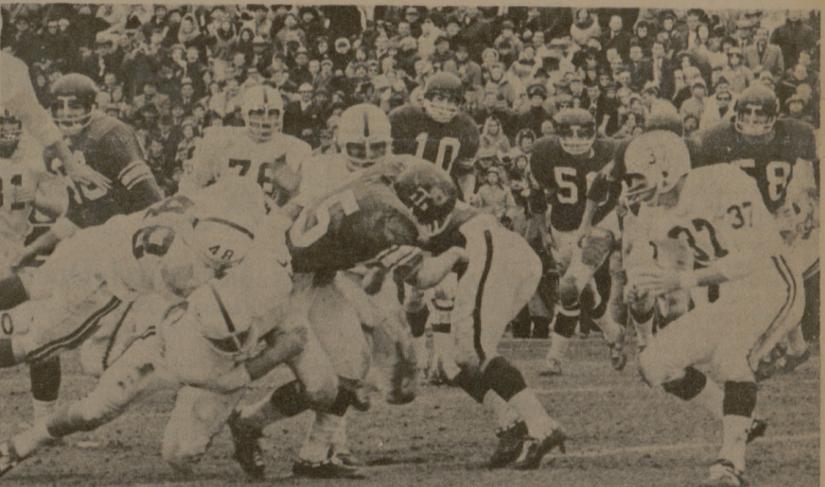
Tickets are available at the MSC Student Program Office.

Gonzales reminded students and patrons that season tickets are not applicable for the Town Hall Extra.

Interest in the show has spread to surrounding high schools, Gonzales announced, with several to send busloads of students.



LONG MOVES UP
Aggie wingback Bob Long looks for daylight upfield after taking a flat pass in the first half. Moving in from behind is Alabama's Charlie Harris (82). In front are David Bedwell (48) and Eddie Propst (49).



STEGENT THROUGH THE MIDDLE
Tailback Larry Stegent grinds for short yardage as two Alabama defenders hang on. Bobby Johns (37) moves in to help David Bedwell (48). Action was in the first period.

CONARC Chief Will Speak At Jan. 20 Commencement

Gen. James K. Woolnough, commanding general of the U. S. Continental Army Command at Fort Monroe, Va., will be the honored military guest at commissioning exercises Jan. 20, President Earl Rudder announced.

General Woolnough will make the principal address and present commissions to new officers who will graduate that morning.

The January commencement at 10 a.m. and 1:30 p.m. commissioning will be in G. Rollie White Coliseum.

A veteran of 35 years Army service, the general has been CONARC commander and a four-star officer since July. Before the

Fort Monroe assignment, he was deputy chief of staff for personnel, Department of the Army, Washington, D. C., two years.

GENERAL Woolnough has had numerous command positions among 26 assignments since mid-1942. He commanded the 393rd Infantry Regiment through latter stages of the Battle of the Bulge, the Army Personnel Center at Schofield Barracks, the base section of the U. S. Communications Zone, Europe, and the 1st Cavalry Division in the Pacific and Korea.

As a lieutenant colonel, Woolnough commanded the 1st Regiment at the U. S. Military Academy, from which he graduated in 1932.

The general was a West Point math instructor at the outbreak of World War II and subsequently served on the War Department General Staff, operations division, and with the 1st Infantry Division, becoming its executive officer shortly after the D-Day Normandy Beach landing in 1944.

GENERAL Woolnough was deputy plans and operations officer of Joint Task Force Seven which performed the first atomic bomb tests at Eniwetok and afterwards served principally in the Pacific, Far East and with the North Atlantic Treaty Organization in Washington until he became assistant division commander of the 5th Infantry Division in 1954.

His decorations include the Combat Infantry Badge, Silver and Bronze Star Medals, Belgian Officer of the Order of Leopold and French Legion of Honor.

The general was born in the Philippine Islands while his father, the late Col. James B. Woolnough, was assigned with the 21st Infantry Regiment.

General Woolnough and his wife, the former Mary Agnes Porter of Waycross, Ga., have three children.

Gift Wrappers Set New Record

Gift wrapping proved to be big business this Christmas for YMCA personnel and volunteers at A&M.

J. Gordon Gay, YMCA general secretary, announced a record 817 presents wrapped free of charge, erasing the old mark of 727 gifts wrapped last year.

"We wrapped everything from electric heaters to wash cloths," grinned Mrs. Alma Lewis, office secretary. "The biggest gift I wrapped was an enormous stuffed lion . . . about the size of an office filing cabinet."

The YMCA service has been provided for 27 years.

First Bank & Trust now pays 5% per annum on savings certificates. —Adv.



PAUL REVERE, RAIDERS

"Hard-rock" singing group Paul Revere and the Raiders, led by Mark Lindsay (lower left), will present a Town Hall "extra" at 8 p.m. tonight in G. Rollie White Coliseum. Appearing with the group will be "The Dream Machine" and "Michael."

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GEN. WOOLNOUGH