

# Aggies Take Second Place In Regional AAU Tourney

## Texas' AC Wins Meet; Parker Wins Both Dashes As Ten Records Fall

The University of Texas' Athletic Club consisting of their track squad and numerous other Athletes from South Texas scored a decisive victory last Saturday in winning the Annual South Texas AAU Track and Field meet.

The AAU meet held at Alamo Stadium in San Antonio was featured by the numerous record breaking performances. Ten South Texas A.A.U. records were set and another was tied as the winners prepared themselves for the National A.A.U. Meet to be held in Lincoln, Neb. July 4-5.

The Texas A.&M. athletic club which consisted only of a part of the Aggie track team was second to Texas' athletic club in team standings. The Longhorns scored 134 points to only 96 for the Aggies. Rice's aggregation was third with 46 points while Baylor was fourth with 42 points.

Crack Aggie Quarter miler Art Harnden won the 400-meter dash in 48.5 seconds to set a new record in this event. Harnden had set the old record of 50 seconds flat last year. He was followed by Aggie Ray Holbrook in second place.

George Kadera won the Shot Put with a heave of 44 feet 8 3/4 inches, placed second in the Discus Throw and took fourth place in the Javelin. The winning throw in the Discus by John Donaldson of Rice's A.C. was 158 feet 5 1/2 inches while it took a throw of 199 feet 4 inches by Adair of Texas' A.C. to win the Javelin title.

The third Aggie first place came in the 1600-meter relay when the team of Bill Blackwell, Jim Mortenson, Holbrook, and Harnden clipped off the distance in 3:24.5 to set a meet record for this event.

Other features of the meet were double victories by Aggie Erfurth of Rice and Charlie Parker of Texas. Erfurth's victories came in the 110-meter high hurdles with a time of 14.8 and in the 200-meter low hurdles in the time of 24.5. Erfurth's time in the low hurdles set a new meet record while his time in the highs tied the record for that event.

Parker, in winning the 200-meter dash, set a new record of 21.8 seconds for that event. Flynn Charley also won the 100-meter dash in 10.8 seconds after Baylor's Bill Martineson was disqualified for too many false starts for the second time this year.

Other new records were set by Ken Boren of Texas in the 400-meter hurdles (time: 55.4 seconds), Davis of Prairie View in the broad jump (distance: 22 feet 11 inches), Earl Meadows of Fort Worth in the pole vault (height: 13 feet 9 inches), John Robertson of Texas' A.C. in the hop, step, and jump (distance: 44 feet 9 inches), Jerry

Thompson of Texas in the 1500-meter run (time: 4 minutes), and T. U.'s 400-meter relay team with a time of 42.2 seconds.

Other Aggies who placed in the meet were Art Haws (tied for second in the high jump), Jim Mortenson (second in the 400-meter hurdles), Jim Hill (fourth in the broad jump), Jack Quirey (tied for fourth in the pole vault), Robert Hall (third in the 200-meter low hurdles), Carroll Hahn (fourth in the 800-meter run), and our sprint relay team that took third place in the 400-meter relay event.

## Jerry Bonnen Honored by Exes

Jerry Bonnen, distance runner on the Texas Aggie track team, was awarded an Elgin watch last Thursday afternoon in recognition of his performance in the SWC track meet in Waco May 17 in which the diminutive Aggie crawled across the finish line on his hands and knees to place fourth in the two-mile race.

Fred Hale, president of the Brazos County A&M club, presented the 125-pound two-mile runner from College Station with the pocket watch inscribed "The Fighting Texas Aggie, Jerry Bonnen. Brazos County A&M Club, 1947" as a special recognition for his fighting finish.

The Brazos club, in making the presentation, felt that Bonnen, in his race and his fighting finish, exemplified the spirit of Aggieland.

# Southwest Conference Track Champions



Aggie Track Team left to right: top row, Stegall, Quirey, Bellville, Guly, Hill, Mortenson, Haws, Hampton, Hahn, Byrd, and Asst. Coach Ray Putnam; middle row, Gilbert (manager), Garney, Ludwig, McGlothlin, Stone, White, Young, Kadera, Bilderback, Napier,

Wiley, and Coach Frank Anderson; bottom row, Hall, Atkins, Powers, Davis, Bodeman, Vajdos (captain), Harnden, Holbrook, Blackwell, Myer, and Bonnen; Not pictured are Anderson, Cardon, Tate, Dickey, and McCauley.

## SWC and Big Six Track Stars Clash in Dallas Friday Night

The Big Six Conference accepted the Southwest Conference challenge for a meet of the winners in each conference track and field event, to be held in Dallas' Dal-Hi Stadium Friday night, June 13.

James H. Stewart, executive secretary of the Southwest Conference, attended the Big Six meeting and presented the challenge and invitation. Prof. Sam B. Shirkey, Big Six secretary, announced the acceptance.

Under the terms of the agreement the first three place winners in each event in the respective con-

ference meets will be eligible to enter.

Missouri University won the Big Six meet for the first time since 1941, and the Aggies copied the SWC title this year with their last conference win being in 1943.

Those eligible in each event from the Big Six and Southwest Conferences respectively are:

Mile run—Bobby Ginn, Nebraska; Bosworth, Missouri; Leasure, Kansas State, time 4:19.3. Thompson, Texas; Sparks, Texas; Hafernick, Texas; time 4:20.4.

Shot-put—Prather, Kansas State; Andros, Oklahoma; Quirk, Missouri; best distance 51 feet 1 inch. Kadera, Texas A&M; Baker, Arkansas; Humble, Rice; best distance 46 feet 5 inches.

440-Yard Dash—Ault, Missouri; Jackson, Kansas; Alexander, Iowa (See TRACK MEET on Page 6)

## ON KYLE FIELD

By DON ENGELKING

### Big Six Tracksters Show Power But SWC Stars Can Win Duel of Champs

Ten Aggie track stars will journey to Dallas this coming Friday night to compete against some of the roughest competition they have seen all year, namely, the Big Six track and field winners.

Outside of Art Harnden in the quarter mile event little chance is given Aggie entries to win their events. Running the 440 with Harnden will be Aggies Ray Holbrook and Erwin Bilderback.

In the weight events George Kadera has a real chance of winning the Discus throw. George has thrown the platter well over 160 feet this year while 153 feet 3 3/4 inches won the event at the Big Six meet.

In the broad jump Jim Hill will really have to take off if he wants to cop this event. It took a leap of 23 feet 8 3/4 inches to place first in the Big Six meet, while Hill recorded a jump of only 22 feet 11 1/2 inches in winning the S.W.C. broad-jump title. The bright side of the broad jump picture is that Hill recorded a jump of 23 feet 8 inches

earlier this season, and Webb Jay, the other Aggie entry in the broad jump, is also capable of leaping 23 feet.

Other Aggie tracksters who will be after second, third, and fourth place points are Jim Mortenson in the 220 yard low hurdles, Carroll Hahn in the half mile, and Jack Quirey, Leroy Bodeman, and Leonard Tate in the pole vault.

Three members of the crack Aggie mile relay team, namely Bilderback, Holbrook, and Harnden, will combine with T.U.'s ace quarter miler Monroe Northcutt to form an all Southwest Conference mile relay team. This team will run against the best that the Big Six can offer. Their time should be no less than spectacular.

The University of Texas will send a twelve man aggregation to vie for points for the Southwest Conference. The Texas sprinters, Allen Lawler, Perry Samuels, and Charlie Parker will

## Aggie Netters Under Dowell To Play Year 'Round

By R. P. Ingram

W. M. Dowell, varsity tennis coach, will start the ball rolling early this year with practice and matches with other schools during the summer months.

Since Dowell is the first coach in a long time able to devote most of his time to tennis, this should bring dividends. Pre-season practice will start the first day of the fall semester, with a round robin and varsity ladder matches scheduled.

Tennis players interested in forming a team to play a few matches this summer should contact Dowell June 11.

This early start will not only improve the Aggies' chances at the Southwest Conference tennis crown, but also will keep the clay courts in playing condition the year round. The courts, left to disintegrate after each season until a few weeks before the first match, are in fair condition only toward the end of the season. It was the Rice tennis coach who said that the Aggie courts were the worst he had ever seen.

Valuable time is lost in repairing and conditioning these courts for varsity play. By keeping them up all year, it will not be necessary for the squad to alter their game from the fast, low bounce of the cement court to the slow, high bounce of the clay courts.

Dowell, looking ahead to the future of tennis, a minor sport, believes that more attention will be given it by the Athletic Council next year.

Hank Allen will be the only loss from this year's squad. Beginning next year, the squad will travel to Arkansas to play the Razorbacks as part of their schedule.

## Summer Murals Start Thursday

There will be a meeting of all Unit Athletic Representatives at 5:00 p.m. Thursday, June 12th in Kiest Y.M.C.A. Lounge in Dorm 2. Representatives from all dormitories, vet. village, trailer camp, college view apartments and Hart Hall are urged to attend. Sports for the summer will be softball, volleyball, team tennis, open golf, and open tennis.

### Langford to UT Parley

Ernest Langford, head of the A. & M. Architecture Department, will be guest consultant at the University of Texas School Plant Conference being conducted June 10-12 in Austin.



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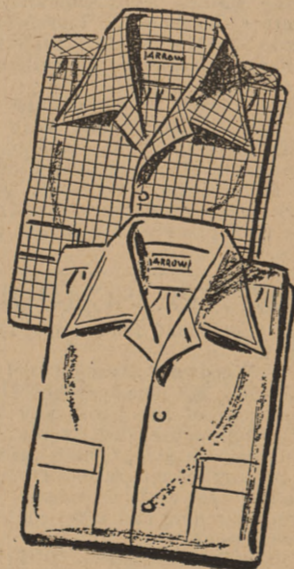
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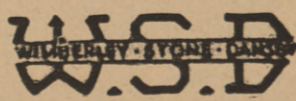
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# Du Pont Digest

Items of Interest to Students of Science and Engineering

## Fundamental Engineering Studies

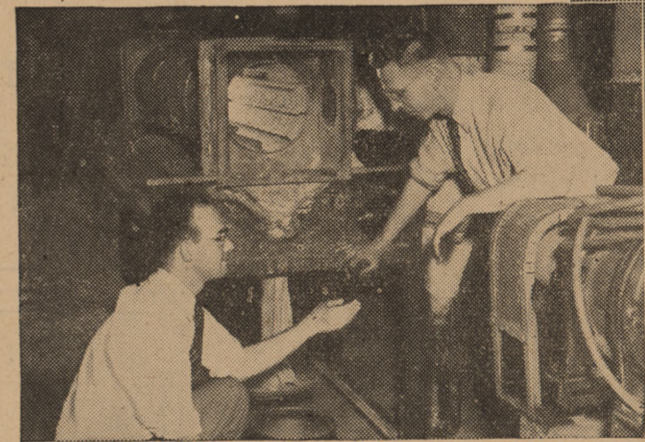
In a company like Du Pont the diversity of chemical operations is great and the investment in equipment is high. In addition to the engineering work done in the ten industrial departments, the responsibility for design and construction of manufacturing plants is undertaken by the central engineering department, which also maintains an engineering research laboratory. This laboratory is staffed by chemical, metallurgical and mechanical engineers, and physicists, whose function is to carry on fundamental and pioneering-applied research to develop new methods of processing and equipment designs; improve construction, materials of construction, and methods of measurement and control; and establish fundamental relationships in unit operations and unit processes.

For example, a broad project was undertaken to study the fundamentals of rotary drying. A principal objective of the study was to learn the effect of the operating variables on the volumetric heat transfer coefficient. Of the numerous variables that affect the drying rate of such a dryer, the more important ones studied were: (1) feed rate, (2) dryer rotation rate, (3) air rate, (4) air temperature, (5) number of flights, (6) direction of air flow, and (7) dryer slope.

### Studies on a Laboratory Scale

Fundamental studies of heat transfer and mass transfer were made in a laboratory scale rotary dryer, 1 ft. in diameter by 6 ft. long. To determine the true heat transfer coefficient, special methods were devised to measure the material temperature along the length of the dryer and to measure continuously the temperature of the rotating shell. These determinations permitted an analysis of all the heat transfer effects in the dryer; namely, from air to solid, from shell to solid, and from air to shell.

From a knowledge of the material



Studying product development in an experimental rotary dryer. H. J. Kamack, B. S. Chemical Engineering, Georgia Tech. '41; F. A. Gluckert, B. S. Chemical Engineering, Penn State '40.

Inspecting the interior of experimental spray dryer after a run. W. R. Marshall, Jr., Ph.D. Chemical Engineering, Wisconsin '41; R. L. Pigford, Ph.D. Chemical Engineering, Illinois '41.

temperature along the dryer, it was possible to calculate the air temperature at each point in the dryer and thereby to determine point values of the heat transfer coefficient. This procedure permits the calculation of a more accurate average temperature difference, which gives more accurate heat transfer coefficients than can be obtained from terminal conditions only.

During the course of the study, every opportunity was taken to obtain heat transfer data on large-scale plant dryers in order to establish scale-up factors. This procedure permitted the correlation of heat transfer coefficients from a 1 ft. diameter dryer with those of full plant size.

Paralleling the work on the fundamentals of rotary drying operation, problems involved in product and process development received continuous attention. These usually require an investigation of the important auxiliary problems of: (1) material handling to and from the dryer, (2) removal of dust from the air, (3) sealing the space between the rotating shell and stationary breeching, and (4) corrosion of the dryer shell.

### How the Results are Applied

The findings of the effect of holdup on dryer capacity were applied to an 8 ft. standard rotary dryer producing 300

lb./hr. of granulated material. The information obtained on this factor alone permitted an increase in capacity of 75 to 100%. This meant an increase of over a million pounds annually. Further, one dryer could now handle the load of two, releasing second dryer for other work.

The information developed in such fundamental studies permits more accurate design of equipment for future operations resulting in lower cost of manufacture and lower investment.

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