Expanded 'Mural Program Planned For This Spring

CLIFF ACKERMAN

Plans for one of the most extensive Intramural programs in the history of A&M will have its initial inauguration within the next week or so, according to an announcement made by Barney Welch, director of Intramurals.

As the students finish the grueling job of registration they will be more than ready for a little relaxation and Intramural Athletics will provide the needed play and recreation.

This 1947-48 spring semester Intramural program will have both team sports for points leading to the Intramural Flag and open tournaments to take care of the wants of all students. Team sports will be handball, horseshoes, boxing, wrestling, swimming and diving, softball, and the track meet. Along with these there will be the open tournaments in badminton, golf, fencing, and weight lifting.

Entry cards for the various sports will be sent to all Athletic Officers and Unit Managers to indicate whether or not each outfit or dorm intends to enter a particular sport. Those in charge are asked to return these entry cards as soon as possible so that scheduling can be completed without delay.

If there are any suggestions or any questions concerning the program drop in at the Intramural office.

INTRAMURAL OFFICERS MEET

Athletic Officers and Unit Managers will meet Thursday, February 5 at 5 o'clock in room 301 Goodwin Hall.

WTAW will return to the air at 8 p. m. Friday night to broadcast the Southern Methodist-Texas Aggie basketball game. Arrangements have also been made to broadcast the Texas Christian-Texas Aggie game Saturday night at the same time.

Milt Frenkel will do the play by play and Clark Monroe will do the color.

Intramural Notes . . .

Only 2 Unbeaten Teams Left in C.S. Volleyball League

At the close of the third round of play in the College Station Volleyball League, the Senators of the American League and the Cubs of the National League were the only remaining undefeated teams.

The Senators, managed by Gordon Gray, managed to down the Yankees, Tigers, and Red Sox in that order while the Cubs, managed by W. R. Horsley, decisioned the Giants, Braves, and Dodgers.

Sponsored by the Recreation Council, the league plays each Monday night in the A&M Consolidated Gym. There are twelve teams with ten members each. At the end of the season, the winner of the American League will play the winner of the National League for the championship of College Station.

Last Monday night, the Senators drubbed the Red Sox 15-4 and 15-13; the Athletics defeated the Yankees 15-9 an 15-6; and the Tigers edged the Indians 15-9 and 15-10.

The Cubs blanked the Dodgers 15-0 and 15-0; the Cardinals squeezed by the Giants 14-16, 15-7, and 15-7; and the Pirates won over the Braves 15-7, 3-15, and 15-11.

Aggie Quintet Host to SMU, TCU This Week

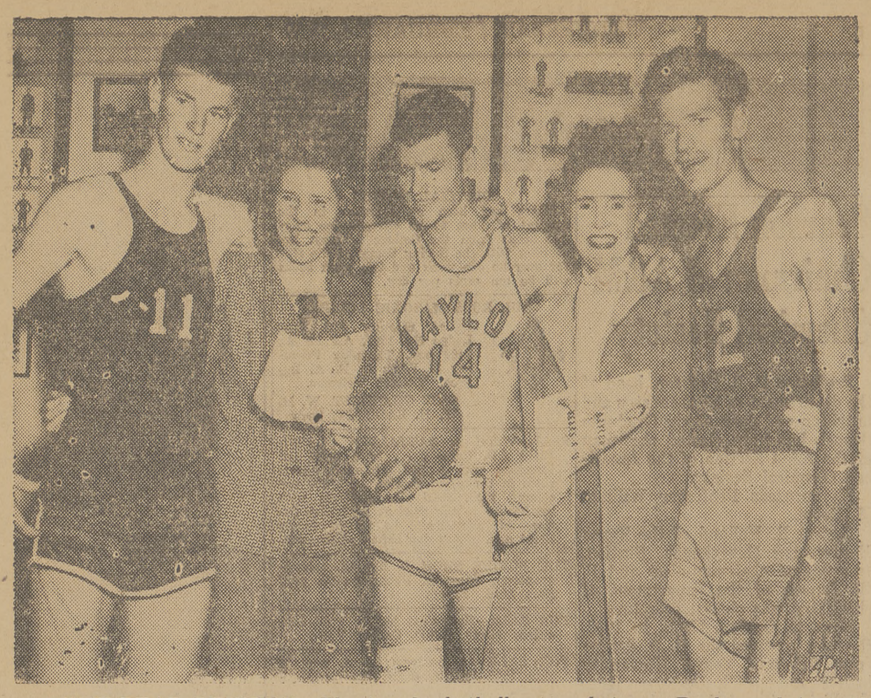
With half of the Southwest Conference schedule behind them the Texas Aggie basketball squad will have two chances to crack into the conference win column this week.

The Cadet cagers will play host to the SMU Mustangs at DeWare Fieldhouse Friday night and Saturday night the busy Farmers will entertain winless TCU.

A Maroon and White victory Friday night would be a big surprise to everyone in spite of the poor showing indicated by the Mustang record. The Dallas quintet has won only one game in conference competition while taking the count four times. However, the Ponies have met the top clubs in the league and have never lost a tilt by more than seven points. SMU's five began conference play by downing TCU and then dropped a pair of games to Arkansas 47-40 and 58 - 57. A last second goal by Jamie Owens gave Baylor a one point victory over the Ponies. Last week the Mustangs gave Texas a scare before succumbing 57-51.

Coach Marty Karow's cagers, on the other hand, have suffered six consecutive setbacks. The Farmers gave the Razorbacks plenty of trouble in losing a two game series to the Arkansas five and lost a heartbreaker to Rice by two points. But, in their other three contests, the Aggies took decisive trimmings. Baylor handed the Cadet five their worst licking of the league campaign with a second half attack that gave the Bears a 76-52 margin.

TCU's Horned Frog squad has also found the road bumpy this season. The Frogs have a record of no wins and three losses. But, like the Mustangs, TCU has looked good even while losing. The Fort Worth cagers have scored 145 points in their three conference games for an average of better than 48 points per game. The purple and white quintet has allowed its opponents 159 tallies or an average of 53 points each tilt.



AGGIE-BEAR REUNION—The two basketball games between Baylor and A. & M. at Waco were a reunion for the DeWITT family. Three brothers did the playing while sister and mother handled the "rooting" chores. JOHN, 19, (left) was in the Aggie B squad line-up against DAVID, 24, (right) who was on the Baylor B team. BILL, 20, (center) was a starter for the Baylor Bears against the Aggie varsity. Sister SARAH is next to JOHN and mother is second from right.

Baylor won both games. All the DeWITT brothers played at Waco High School and all were on district championships.

Swimming Team Will Show Off Stars Tonight In Exhibition

First Meet Against D.A.C. Saturday

An intra-squad exhibition meet will be held tonight at 7:30 in the P. L. Downs Jr. Natatorium as the swimming team prepares for its first home match Saturday with the Dallas Aquatic Club.

Last year the Aggie splashers took two decisions over the Dallasites, both by a seven-point margin. Speedster Jimmy Flowers helped the Cadet team last year, and it remains to be seen whether his absence this season will weaken the squad's strength. Last week the Dallas Club beat Baylor's team by a 35-point margin.

Coach Art Adamson has devided the team into two squads to increase competition.

Danny Green will captain one team and Bernie Syfan the other. Green's team is the favorite as it will have a large number of regular starters on it.

The 400 yd. relay race will be the big event of the night with Green, Riley, Fisher, and Summers against Syfan, Vardaman, Westervelt, and Knox.

In the breaststroke Gene Summers of the greens will be pitted against Dick Lee. Backstroking for the fins, Syfan's team, will be Reeves, Houser and Spencer against Fisher, McKenzie and Kruse.

Coach Adamson has moved Syfan from his usual distance runs to the 50 and 100 yd. dashes.

This will pit the two team captains against each other, and may provide the margin of victory for the winner's team.

Also in the dashes will be Westervelt, Clevenger and Fisher, and any of these men could provide an upset by beating the team leaders.

Another good match will be the medely relay, with Kruse, Summers and Fleming of the greens up against the fine team of Lee, Spencer, and Knox. The greens are favored in this event with fleet Summers slated to pick up a few extra yards for his team.

Diver Johnny Heeman will be hard pressed to hold his No. 1 spot with Scotty Potter, Bill Strait, Jim Bennett, and Mac McCullough all pressing hard.

No American has ever won an Olympic figure skating event in either skiing or hockey.

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WEDNESDAY, FEBRUARY 4, 1948 Page 3

Sweden Leads in Olympics; Girl Skaters Perform Today

ST. MORITZ, SWITZERLAND, Feb. 4 —(AP)—A second American moved within sight of a championship today while Norway was edging temporarily past Sweden for the team lead in the fifth winter olympics.

The daring veteran of the skeleton bobsled, Jack Heaton of New Haven, Conn., turned in three fast heats down the suicidal open ice tunnels to gain a second place tie at the halfway point of the Cresta run.

Heaton's accumulated time of two minutes, 23.2 seconds, shared by Nino Bibbia of Italy, was only two-tenths of a second back of the leader, John Crammond, British broker and Naval officer.

Richard Button, 18-year old Englewood, N. J., figure skating stylist, virtually assured himself a championship when he led yesterday through the compulsory figure tests—half of the title competition. Free skating, Button's specialty, is on schedule tomorrow.

These were other developments:

1. The United States' Amateur Hockey Association team won its third game in four starts, defeating Sweden, 5 to 2, to remain in the running for the title in the unofficial ice hockey round robin. Unbeaten Canada defeated Italy, 21 to 1.

2. On the strength of its ski victory Sweden supplanted Norway in the see-saw unofficial team standings, 49 points to the Norwegians' 39½

3. John Werket, the 23-year-old Minneapolis youth who was sixth in the 1,500 meter speed skating test yesterday, fell back in the longer 10,000 meter (6 1-4 mile test).

Women's figure skating, in which the United States is conceded a good chance, topped yesterday's program. The ladies will do compulsory figures.

Barbara Ann Scott of Canada, the world's champion, is favorite in this event while American hopes rest with Gretchen Merrill, Boston, Eileen Seigh, Brooklyn and Yvonne Sherman, New York.

Delaware Official To Speak at AIChE Banquet Saturday

Dr. Allan P. Colburn, assistant to the president at the University of Delaware and formerly of Du Pont Corporation, will be guest speaker at an AIChE Banquet Saturday evening at 6 in Sbisa Hall.

All chemical engineering students who plan to attend are advised to notify the secretary in the department office before noon, Friday.

This will be the first banquet of the AIChE this year.

Aggie Joins Ranks Of Rice Prospects

Joel Hunt, former A. & M. star who recently resigned as assistant football coach at Louisiana State University has added his name to the growing list of prospects for the head coach vacancy at the University of Houston.

2 Million Vets In Training

Nearly 2,500,000 veterans were in schools and on-the-job training establishments under the GI Bill at the end of 1947, the Veterans Administration announced. All but a half-million veterans were in educational institutions.

Flight Training Open to Students For This Semester

Flight training, sufficient for a student to obtain his private pilot's license, is now open to new students. The training is given at Easterwood Airport which is owned and operated by the College.

Students may register for the course prior to February 16 at the Aeronautical Engineering Building next to the Petroleum Engineering Building or at the airport. The course is listed as Aeronautical Engineering 221, but all students are eligible, except freshman.

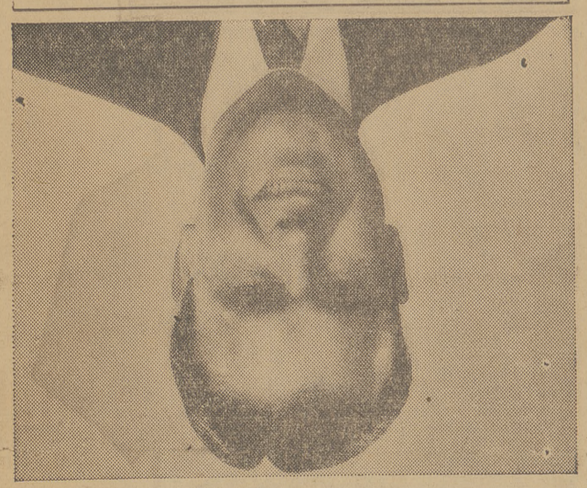
The Veterans Administration will pay the fee of war veteran students if the veteran has sufficient eligibility to complete his schooling and an excess amount of approximately six months. The cost of the training for non-veteran students is $410.60.

A minimum of 35 flight hours is required and the maximum number of flight hours is 45. Ground school is approximately 50 hours.

The flight training is under the direction of Guy Smith, manager of Easterwood Airport. The ground work is given at night and the flight instruction is arranged so that it will not interfere with the student's class work. Transportation to and from the airport is furnished free.

Six hundred students have enrolled in the flight training course since it was established eight years ago. There has not been a serious accident at the airport since its establishment.

WINS POPULARITY CONTEST



NO, the man in this picture is not upside down! You must be reading this standing on your head. Little wonder you can't pass the Finger-Nail Test. Better straighten up and streak down to the corner drug store for a bottle or tube of Wildroot Cream-Oil Hair Tonic. Just a spot of Wildroot Cream-Oil grooms your hair neatly and naturally—gives it that neat, well-groomed "college" man look. Relieves annoying dryness and removes loose, ugly dandruff . . . It's non-alcoholic, so don't try drinking it. Remember, however, it contains soothing Lanolin. Get Wildroot Cream-Oil hair tonic today and see for yourself why it's "again and again the choice of men who put good grooming first." For generous trial supply free, send this ad with your name and address to Wildroot Co., Inc., Dept. C-D, Buffalo 11, N. Y.

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ARE NOW ON DISPLAY—ORDERS WILL BE GIFT WRAPPED FREE FOR MAILING

New names for the College Confectioneries will be chosen by student members of the Student Life Committee at their next meeting.

COLLEGE CONFECTIONERIES

ATTENTION

Residents of College Station

The Annual Municipal Election will be held April 6, 1948 to elect a Mayor, City Secretary and three Councilmen. Candidates must file thirty days before the election.

THE COLLEGE STATION DEVELOPMENT ASSOCIATION AND CHAMBER OF COMMERCE

DU PONT Digest
For Students of Science and Engineering

Weaving of nylon yarn required the development of special sizing material

Problem solved by Du Pont men with many types of training

Each new product that is created in the laboratory seems to bring with it a new set of problems to challenge the ingenuity of the scientist. An outstanding instance of this is nylon. To make practicable the weaving of nylon into textiles, it was necessary to develop an entirely new slasher sizing material —a coating to make the filaments adhere to one another, protect the yarn from abrasion and keep it clean. Sizes used on other fibers proved unsatisfactory on nylon, because of its unique chemical composition.

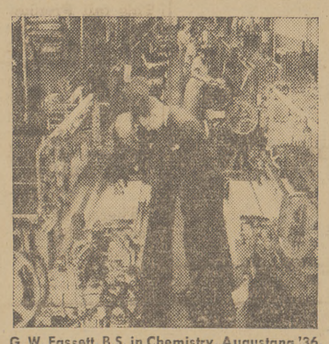
Five candidates were exhaustively tested by Du Pont men. Best by far proved to be polymethacrylic acid (PMA), $[CH_2{=}C(CH_3)COOH]_x$, possibly because its acidic nature is favorable to hydrogen bonding with the polyamide structure of nylon.

Many technical problems involved

(1) After weaving, sizing has to be removed by water. PMA dissolves in water readily up to 10% at room temperatures, but precipitates between 70-80° C. A way had to be found to prevent precipitation at the normal scouring temperature of 100° C.

(2) PMA sets to a brittle, glassy material on fibers, giving a harsh wrap. Suitable plasticizers such as sulfonated vegetable and mineral oils, glycols and other polyhydric alcohols had to be found to correct this condition and permit stretching and flexing of the yarn without film impairment.

(3) Good dispersing agents were necessary so that the powdered PMA would not agglomerate as it dissolved in the sizing bath.



G. W. Fassett, B.S. in Chemistry, Augustana '36, and W. A. Franta, M.S. in Chemical Engineering, North Dakota '34, inspect woven fabric made from PMA sized nylon warp in Du Pont Experimental Weaving Laboratory.

(4) Optimum concentrations of PMA and the various plasticizers had to be determined, and application temperatures worked out for the different types of fabrics (satins, twills, taffetas, etc.) to be sized.

The basic reactions involved in making methacrylic acid monomer are straightforward:

$$\underset{\text{(acetone)}}{(CH_3)_2CO} + HCN \longrightarrow \underset{\text{(acetone cyanohydrin)}}{(CH_3)_2C(OH)CN}$$

$$(CH_3)_2C(OH)CN + H_2O, H_2SO_4 \longrightarrow \underset{\text{(methacrylic acid monomer)}}{H_2C{=}C(CH_3)COOH}$$

But several technical difficulties in the manufacture of the polymer had to be overcome:

(1) The distillation of the monomer has to be controlled carefully to keep it from polymerizing in the still head.

(2) The monomer must be obtained free of any color-forming impurities that might cause permanent discoloration of the fabric by the final polymer solution.

(3) Polymerization of the monomer must be carefully regulated to get reproducible results and constant molecular weight. This is important because the molecular weight of the PMA determines the viscosity of the size.

(4) Drying the polymer presented unusual difficulties. A special study was made to find an economical drying process that would give a uniform, finely divided product adapted to rapid solution.

Credit for the development of PMA textile sizing, is shared by Du Pont men with many types of training—chemists, physicists, chemical engineers and textile experts, as well as the technical service men who worked in close cooperation with leading textile manufacturers during commercial trials.

J. M. Griffing, Ph.D. (Organic), Columbia '45, and A. Descheemaeker, B.S. in Chemical Engineering, Lehigh '41, inspect PMA size solution and check nylon warp at head end of a slasher. In slasher sizing, entire warp is coated rather than a single thread.

Questions College Men ask about working with Du Pont

Where would my job be?

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