

L.J.L. ABNER

MANY OF YOU READERS HAVE EXPRESSED AMAZEMENT AT THE UNCANNY ACCURACY OF OUR SCIENTIFIC DETAIL. HOW DO WE DO IT, YOU ASK? HARD WORKING RESEARCH! SO THAT EVERYTHING MAY BE CLEAR TO YOU, WE HEREBY REPRINT MORE CORRESPONDENCE WITH OAK RIDGE ATOMIC PROJECT. (NOTE: MINOR DELETIONS HAVE BEEN MADE FOR SECURITY REASONS)

YOUR LETTER REACHED EVERYBODY'S DESK. I HAD TO TELL YOU THAT THE RESEARCHERS AT OAK RIDGE ARE ALWAYS IMPRESSED BY THE CARE AND DETAIL WITH WHICH YOU WRITE. (ESPECIALLY THE SPELLING OF WORDS) ARE YOU ATTRACTED TO THE SCIENTIFIC RESEARCH? IF YOU SHOULD FIND A PAIR THAT FITS YOU, BE SURE YOU BUY THEM FROM THE OAK RIDGE ATOMIC PROJECT. (NOTE: MINOR DELETIONS HAVE BEEN MADE FOR SECURITY REASONS)

By Al Capp

Qualifications - (Continued from Page 1)

chosen through ballots distributed among ROTC dorms. Completed ballots will then be turned over to the Student Senate election committee.

The Junior Class will select, from a list of qualified candidates, the Longhorn editor, athletic representative, and Town Hall manager.

The Junior Class will also elect two senior yell leaders, one of which will be named head yell leader. The two junior leaders already in office will automatically become candidates for the senior positions. A 1.25 grade point average is required for yell leader candidates.

The Sophomore Class will select two junior yell leaders from the list of qualified candidates.

All results of these elections held by the Junior and Sophomore Classes will be turned in to the Student Senate election committee before the general election held on the campus.

The activities point system presented at last month's meeting was approved by the Student Life Committee.

The Student Senate election committee is responsible for the accumulation of these points. A report of discrepancies will report discrepancies to the Senate, and final enforcement will be up to the Student Life Committee.

Classified Ads

WANTED - Bring your themes and thesis to C-150A, College View Apartments, after 2:30 p.m. or to the Scribble Shop, 1607 E. 23rd, Phone 24270.

FOR SALE OR TRADE BY OWNER - Beautiful '46 Dodge convertible. See J. A. Lavalle, College View Apt. D-4-X or Box 2379.

WANTED - Would like to purchase a good used microscope. Phone 4-8704.

FOR SALE - Sofa bed and 4 cu. ft. G.E. refrigerator; used 9 months. See at A-11-Z, College View.

CORSAGES for Mother's Day ACCIPLAND FLOWER SHOP Phone 4-1212

McKENZIE-BALDWIN BUSINESS COLLEGE offers refresher courses in shorthand, bookkeeping and associated subjects. Dial 2-6655, Bryan, Texas.

SEND "FLOWERS BY WIRE" to your mother for Mother's Day (May 9th). Accipland Flower Shop, Phone 4-1212.

FOR SALE - Used jeep, good condition. D-2-W, College View.

WONT SOMEBODY please rent me a garage? Ben Tompkins, Box 5361.

FOR SALE - Lawn furniture. Built to order. 602 Fairview, College Park.

R. C. ECHOLS Realtor Over Canady's Pharmacy Bryan Phone 2-6454

METAL Men for repairing and rebuilding wrecked automobiles. See Sam Lohfeld at Bryan Motor Company.

FOR SALE - 1946 Travelite house trailer. Area 1, Trailer D-2.

ManE's to Show Control Device

Management Engineers will exhibit a Statistical Quality Control Unit at the All-College Open House, May 8 & 9, A. Balmer, senior management engineering student, has announced.

This unit is used by the Coca Cola Company to test samples of their product throughout the south. The unit will be on display in the vicinity of the ME Building.

FOR A CONSERVATIVE BUYER . . .

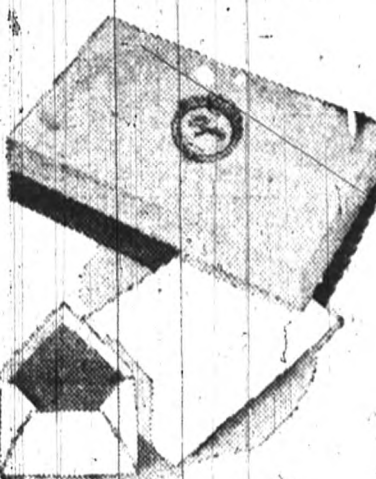
Facing old highway 8, we offer a two bedroom home in very good condition on about one half acre of land. This house is priced at a very low figure for a quick sale.

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A new two bedroom home on Kyle Street built to F.H.A. specifications. This home features lots of built-ins, attached garage, wall to wall carpet, and azrock tile in the kitchen and bath.

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Motheral Awarded U of W Fellowship

Joe R. Motheral, economist in rural life, has been awarded a General Education Board fellowship to complete work on his Ph.D. degree at the University of Wisconsin.

convinced. Motheral's award is the first of the Board's grants to be announced here this year. He is expected to enter Wisconsin in September. Representatives of the General Education Board were at College Station Monday to consider other applicants for fellowships and to review the projects for which they have been furnishing support here.



VANITY FAIR NO. 4
LESLIE TURNER of Waco is Vanity Fair No. 4 as selected by orchestra leader TEX BENEKE. Submitted by M. G. INMAN JR. She will appear in the Vanity Fair section of the 1948 LONGHORNS.

What's Cooking?

AMERICAN CHEM. SOCIETY - STUDENT AFFILIATES will meet 7:30 p.m., Tues., Room 9, Chem. Bldg.

AGRICULTURAL ENGINEER-

ING SOCIETY, 7 p. m., Tuesday, Agricultural Engineering Lecture Room. Principal Speaker P. T. Montford.

R & A SOCIETIES (joint meeting), 1 p. m., Thursday, Guion Hall. Attorney General Price Daniel to speak on "Tidelands Question."

CAVALRY SQUADRON, 47th COMPOSITE GROUP, Army Organized Reserve, 7:30 p. m., Tuesday, Second Floor, PMA (formerly AAA) Building.

EX-SERVICEMEN'S WIVES BRIDGE AND SOCIAL CLUB, Thursday, 7:30 p.m., Cabinet Room of YMCA.

ENGINEER GROUP, 479th Composite Group, Army Organized Reserve, 7:30 p. m., Thursday, Second Floor, PMA (formerly AA A) Building.

FISH AND GAME CLUB, 7:30 p. m., Tuesday, Agricultural Engineering Building, Third Floor.

HILLEL AND JUNTO CLUB, Joint meeting, Wednesday, 7:30 p.m. Cabinet Room of YMCA. Dr. Melvin S. Brooks will discuss the report of President Truman's Commission on Higher Education.

KREAM AND KOW CLUB, 7:30 p. m., Tuesday, Creamery Lecture Room. Election of officers.

PRE-LAW CLUB, 1 p.m. Thursday, Guion Hall. Attorney General Price Daniel to speak on "Tidelands Question."

SADDLE AND SIRLOIN CLUB, 7 p. m., Tuesday, AI Lecture Room. Guest speaker John Hendrix, stockman and writer.

Agricultural Engineering Society to Hear Montford

P. T. Montford of the agricultural engineering department will address the Agricultural Engineering Society Tuesday at 7 p. m. in the main lecture room.

After his address, members will discuss plans for the annual barbecue.

BOOKS - BIBLES - NOVELTIES
Welcome! Gifts for all people and seasons where customers share a profit. \$1.00 free book with \$5.00 catalog. TABERNACLE BAPTIST BOOK STORE, (608 So. 15th St.) Waco, Texas.

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Both veterans and corps members are eligible for this position, but election will be done by the Junior Class.

All candidates will fill out personal forms in the Student Activities Office.

Veteran Elections
Candidates for the position of Veteran Battalion and Longhorn editors, yell leader, and athletic representative will be voted upon by veteran students in their respective dormitories.

The general election will be conducted in each dorm through the housemaster. Completed ballots will then be turned over to the election committee of the Student Senate.

Non-dormitory students will use an official ballot printed in the Battalion.

Corps Elections
The corps Battalion editor will

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DU PONT Digest For Students of Science and Engineering

Research Program Produces Technique for Tapering Molten Nylon Bristles

Difficult mechanical problems solved by Du Pont chemists and engineers to make nylon paintbrushes practicable

worked out the techniques in the laboratory, in the somewhat crude form represented in the accompanying diagram. It being largely a mechanical problem, chemical and mechanical engineers were called in to cooperate soon after the studies got under way. After further laboratory development, the engineers put the operation on a production basis.

The final result was a highly efficient process for tapering nylon bristles. As the molten filament emerges from the spinneret, pinch-rolls driven by a series of gears pull it slowly, then quickly. The size of the filament varies with the speed of pulling—thick diameters resulting at slow speeds and thin diameters at fast. Next the nylon goes to the drawing operation, where it is stretched by rollers to give it strength and resiliency.

Engineers designed special machines

Following spinning and drawing, in which many filaments are handled simultaneously, the nylon is "set." Then it goes to a special machine, designed by Du Pont engineers, which "feels out" the crests and troughs and cuts the bristle at these points. This type of design was necessary because of the unavoidable small variations in the length of individual bristles. Sorting the bristles

Nylon bristles used in toothbrushes and hairbrushes are uniform in diameter—that is, they are "level." But paintbrushes made from such bristles did not paint well. Studies of the best natural bristles showed that they were tapered, so a research program to produce tapered nylon bristles was started.

Some difficult mechanical problems were encountered. Level brush bristles were being made by extruding molten nylon through spinneret openings designed to produce filaments of perfectly uniform diameter. A new technique had to be found to make tapered ones. Since it was not practical to taper the filament after cooling and drawing, a precise taper had to be put in just as the nylon emerged molten from the spinneret. And it had to survive the drawing operation, in which nylon is stretched to several times its original length!

Techniques originated in laboratory

The original idea for solving this problem came from Du Pont chemists, who

Present status of development of the "spin-draw" machine evolved from the crude laboratory apparatus shown in the diagram below.

Its and sandpapering their ends completes the process.

Many techniques contributed to the development of the optimum properties of nylon in tapered bristles. At the laboratory stage, X-ray studies were made to learn the effect of various degrees of crystallization on bristle drawing and setting. Numerous devices were designed to test the bristles—for example, a machine that simulates the abrasive effect on a brush swept back and forth over a surface. Even after manufacture was established, high-speed stroboscopic photography and other stroboscopic studies were employed to improve coordination in the various operations and make a more uniform product.

The development of these bristles furnishes another striking example of the great variety of problems, often intricate, that may arise out of the discovery of a new substance like nylon.

Questions College Men ask about working with Du Pont.

What are the opportunities in development work?

The conception of an idea in a research laboratory is merely the starting point at Du Pont. Men with training in mechanical, electrical, metallurgical, and chemical engineering are required to demonstrate the practicality of the laboratory findings, including small-scale operation of the new process. Even after the full-scale plant is operating, development work is continued to improve efficiency. Write for booklet, "The Du Pont Company and the College Graduate," 2518-A Nemours Building, Wilmington 98, Delaware.

BETTER THINGS FOR BETTER LIVING THROUGH CHEMISTRY

More facts about Du Pont—Listen to "Cavalcade of America" Monday Nights, NBC Coast to Coast

Diagrammatic representation of the first laboratory apparatus used to establish the principle of making nylon from molten plastic. (From an early patent.)

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