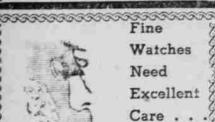
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U.S. Navy Project Here Working On New Fields In Communications

Project Is First Of Type Tried, Officials Declare

By William Workman

Six hundred college freshmen science and communications.

This is a project wherein the United States Navy wants to determine how much men can learn by radio and what type of radio program is the most effective teacher. For the answers the Navy has turned to the University of North Carolina.

Working together in an effort to find the answer are the Communication center and the Institute for Research in Social Scicollege in Raleigh.

Navy Finances

vices Center, the project is scheduled to run for 12 months.

Now in the process of organization and planning, the staff for ! the project is just about complete. The director is John E. Ivey, Jr., chief of the institute's division of research interpretation. Daniel O.

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Kuper and Barbara Chartier are research assistants, and Nadine Fitcher, administrative-secretary.

Writing and Producing soon will be sitting in on an ex- supervision of the project is beof the project, the development program, adequacy of the con-

radio programs.

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Price, research associate in the ing to a given body of informa- Though the subject matter

Test Students' Reactions

for the project, consisting of The primary responsibility for psychologists and sociologists, is interested in finding how stuperiment that may well make ing assumed by the Institute for dents' attitudes as well as social ner. history in the fields of social Research in Social Science. The and economic backgrounds affect Institute's research staff will their reactions to information The radio programs will run handle the experimental design presented by radio. Other ques- for 35 minutes, followed by a and administration of the testing listening and problems of learn- days of the experiment, two will tent for radio programs and final critical attitudes of people to- with radio instruction and one analyses of the data gathered ward social, economic and politi- with an examination covering all The Communication center will cal problems and how radio lis- the radio instruction material. be responsible for, and supervise, tening might affect these atti- Plus covering all the instructionthe writing and producing of the tudes.

Present plans are that the ex- 16 groups of students will be as- might have occurred in the stuperiment will be conducted dur- signed to the experiment. All dents' attitudes. ing the fall quarter of this year, groups will receive the same sub- The final statistics and results in social science? What types of ence at Chapel Hill and the De- The social study classes at State ject matter. They will each be will provide evidence to confirm attitudes and experiences enable partment of Social Studies in the college will be used as the group given the same number of facts, or deny the pre-determined a person to take an objective School of Engineering at State to be tested. Approximately 600 the same appeals, situations and hypotheses constructed by the re- point of view toward social situa-State freshmen will take part in examples. However, these will be search staff. These hypotheses, or tions? Does an objective point of the three-week experiment. Be- in the form of four different statements assumed for the pur- view enable a person to learn Financed by the Navy's Office fore the experiment begins the types of radio programs. Meeting pose of argument, will be con-better? of Naval Research Special De- tistical aspects. Harry B. Williams three times a week, these groups cerned with such questions as: group will be pre-tested on their will listen to the radio rather What type of radio presentation first research project of its type knowledge and attitudes pertain- than the standard lecture.

institute, will supervise the sta- tion. Other information to be se- might cover a lecture on Ameriwill serve as assistant to the di-cured will concern family back- can history, four groups would rector. William R. Workman is ground, education and facts per- hear it discussed in an interview the radio-television writer. Leo tinent to the students' beliefs. form, four in a roundtable, four in a story-dramatic, and four in The University research staff a story-narrative. At the same time, a control group would be given the identical material in the standard college lecture man-

Nine Day Experiment

tions are concerned with radio short daily quiz. During the nine ing; as well as the objective and be taken up with pre-testing, six al material, this final exam will When classes start in the fall also show any changes which



SHOWN IN CONFERENCE are members of the radio research project being conducted by the University for the United States Navy. Seated (left to right) Earl Wynn, director, Communication center; William R. Workman, radio-writer; Harry B. Williams, assistant to the director; Nadine Fichter, administrative-secretary; and John E. Ivey, Jr., director of the research project.

What types of attitudes and experiences are barriers to learning

As far as is known, this is the ever attempted. When all the tests have been completed, processed, and analyzed, the figures may well tell an interesting and amazing story. Educators may be able to program their radio time with shows that are of greater interest and instructional value. The Navy may have evidence pointing to new directions fo personnel training by radio.

This information might sugges revolutionary changes in the manner of getting information and instruction to reserve training units. For the social scientist it may help answer many ques tions that have gone unanswered

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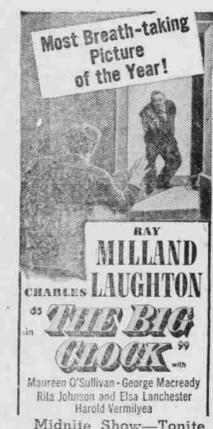


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grams for the Navy's radio research project will be produced.

s mittee as having been absent 6: Bob Allen, Kyle Barnes, Nor-Pick Theatre Bldg. \$ [] wormstownstownstow []

Wally Robinson.



CAROLINA

LEGISLATURE ABSENTEES

THE MAIN STUDIO of the Communication center's Radio department. Here the dramatic pro-

The following legislators have been reported to the Rules comfrom legislature meeting on May man Black, Dick Boren, Richard Bowen, Ted Leonard, Don Robertson, Hilda Sharkey. Excuses for these absences should be turned in to Thurman Williams, DKE house, before the next regular

The Rules committee voted to excuse the following legislators for their absences on April 22: Richard Allsbrook, Bill Benjamin,



DU PONT D'idest For Students of Science and

Research Program Produces Technique for Tapering Molten Nylon Bristles

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

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

RESERVOIR

MOLTEN

worked out the techniques in the lab-oratory, 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 pro-

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 bris-

ENLARGED VIEW OF TAPERED FILAMENT



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

tles 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 crystalization 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?

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.



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By AL CAPP



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