

Bad Heart Deaths Cut By Work Of Association

(Editor's Note—The following story is the second in a series of articles on the different organizations included in the campus chest drive scheduled for March 4-7.)

Diseases of the heart and blood vessels account for nearly half of the deaths in this state, according to the North Carolina Heart Association.

The Association, whose headquarters are here in Chapel Hill, lists research, education, and community service as its three phases of work to combat these diseases.

In the field of cardiovascular research, work is being done in the medical centers at Duke University and the Bowman Gray School of Medicine in Winston-Salem. In this field much progress is given by preliminary studies of the new hormones, ACTH and cortisone, and in the development of new diagnostic tools.

The most notable contributions in the educational area have been two annual Heart Symposia which brought to this state leading physicians and research men from all over the country. In addition clinical discussions, demonstrations, and lectures are being held, and pamphlets, films, and exhibits have been made available to the general public as well as medical personnel.

Outstanding among the Association's accomplishments in the area of community service are sponsorship of classes in work simplification for cardiacs, the maintenance of a Heart House to provide dietary treatment for cardiac patients, and the organization of a summer recreation

program for cardiac children. In conjunction with the community service program, school children are now being screened for various cardiac diseases and abnormalities.

Plans for future work of the Heart Association include greater emphasis on problems of rehabilitation and work classification for the employed cardiac patient, close cooperation with the School Health Coordinating Service, and further study of actual needs in various communities and ways in which these needs can be met.

Spanish Club

The Spanish Club will meet tonight for supper at 6 o'clock in one of the small dining rooms on the second floor of Lenoir hall. All those who want to practice their Spanish are welcome, the president said.

In November, 1951, farmers received about 49 cents of each food dollar spent by consumers.

CAMPUS BRIEFS

University Party

There will be a meeting of the University Party legislators tonight at 6:30 first floor New West, Eddie Gross, UP floor leader announced yesterday. He urges all to attend.

Christain Fellowship

The Carolina Christian Fellowship will bring to the campus Charles Troutman, associate general secretary of the Inter-Varsity Christian Fellowship.

He will speak on "The Differ-

ence Christ Makes" in the YMCA library tonight at 7 o'clock. The lecture is open to the public.

Card Board

The Card Board banquet will be held tonight at 6:30 in the upstairs banquet hall of Lenoir hall. Complete movies of the 1951 Card Stunts will be shown.

The number of persons employed on farms has dropped about 15 per cent since 1940.

The Daily Tar Heel

The official newspaper of the Publications Board of the University of North Carolina at Chapel Hill where it is published daily at the Colonial Press, Inc., except Monday's, examination and vacation periods and during the official summer term. Entered as second class matter at the Post Office of Chapel Hill, N. C. under the act of March 3, 1879. Subscription rates: mailed \$4.00 per year, \$1.50 per quarter; delivered \$6.00 per year and \$2.25 per quarter.

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THE DU PONT DIGEST

Ch. E's at Du Pont

The fields of research and development invite ingenuity of the chemical engineer

Research and development work in chemical engineering often overlap at Du Pont, except where the research is fundamental.

The chemical engineer occupied with fundamental research is chiefly concerned with basic studies of unit operations and processes involving reaction kinetics, thermodynamic properties of fluids, high-pressure techniques, equilibrium studies, heat transfer and the like. Such studies often lead to lower-cost manufacturing processes. Some recent projects in fundamental research have been:

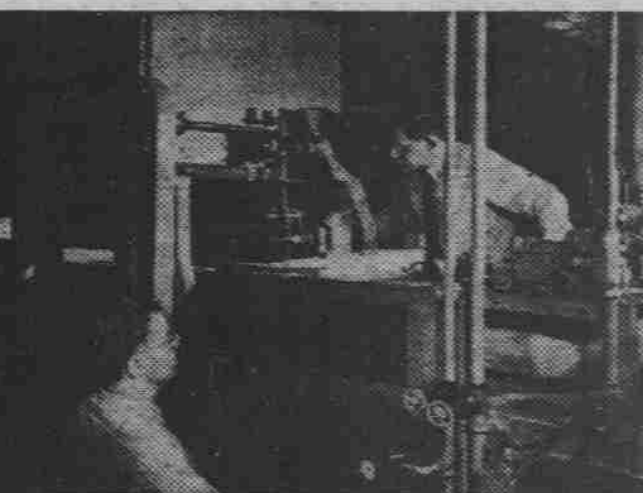
1. A study of fluidized catalyst reaction units including degree of fluidation, temperature uniformity, catalyst activity and life, and conversion of feed gases.
2. Studies of the fundamental transfer relations between phases, for instance, gas and liquid, in reacting materials.

Apart from the chemical engineers engaged in fundamental research,

there are many groups working in applied research and development. In fact, this is the major part of the chemical engineering work done at Du Pont. Here are examples of the literally hundreds of unusual problems they have solved:

1. Designing equipment for producing pure silicon at 1000°C. (Though one of the starting compounds is highly corrosive, only spectroscopic traces of impurities can be tolerated.)
2. Developing a high-pressure liquid-phase process to replace the standard dry method of producing sodium azide formerly employed.
3. Designing a continuous flow, gas-liquid reactor for use in making a fiber intermediate under pressure.
4. Developing, from laboratory research results, a process for large-scale production of complex polymeric materials used in the manufacture of color photographic film.

These examples can only hint the variety and originality of problems



SEEKING new ways to coat plastic on wire: Carl Hellman, B.S.Ch.E., Syracuse '50; and J. M. McKelvey, Ph.D.Ch.E., Washington '50.

[SECOND OF A SERIES]

constantly arising at Du Pont. They indicate the challenge as well as the broad opportunity awaiting the talents and ingenuity of the young chemical engineer who wants a career in research and development.

NEXT MONTH—The chemical engineer's role in plant operation at Du Pont will be discussed in the third article in this series. Watch for it!

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