

## Research Outlay Up Fourfold In Decade

One of the significant developments in the American economy in recent years is the rapid expansion in scientific research and development in a variety of fields.

Total scientific research expenditures in 1952 are officially estimated at more than \$3 1/2 billions, about two-thirds of it for work carried on in facilities owned or operated by private industry. This sum is more than four times the equivalent yearly spending at the beginning of World War II, a rate of growth that is greater than that of the economy as a whole in the period.

The nation's defense needs over the past decade have, of course, been a big stimulus, especially to basic research, and have brought some spectacular results, particularly in the field of atomic energy.

**Expansion in Private Research**  
However, private industry has likewise greatly increased its own expenditures both for basic and applied research. This is of particular importance to the well-being of the average American since new products and improvement of old ones have consistently played a decisive part in the growth of the economy and the rise in our living standards.

The status of research in the United States has been developed in a special study prepared by the Bureau of Labor Statistics in cooperation with the Department of Defense. It is based on a nation-wide survey in mid-1952 of companies engaged in scientific and engineering research and development. Much research work is also done in colleges and universities, and in Government laboratories, but detailed information for these was not obtained. Nor does the study touch on research in the social sciences.

One of the interesting results of the survey is the extent of research being financed by private industry, even where work is being done at the request of the Government and contributes to national defense. The chemical industry, for example, No. 3 industry in research expenditures, pays 93 cents of its research dollar out of its own pocket. Petroleum's proportion is even higher, paying about 97 cents of its research dollar, while the equivalent ration in automobiles, food and primary metals was better than 90 cents.

**National Defense Aspect**  
As is to be expected, Government financing of research and development is high where the national defense factor is paramount. This is notably the case in the aircraft field where U. S. funds represented 85 per cent of research expenditures. Electrical machinery and the professional and scientific instrument industries are two others with a big role in defense, and more than half of their research expenditures are Government-financed.

The companies studied in the survey employed 94,000 research engineers and an additional 140,000 persons as supporting personnel for this work.

## Good Teeth—For You, Your Child Your Community

By ERNEST A. BRANCH, D.D.S.

The Council on Dental Health of the North Carolina Dental Society is sponsoring this series of articles on Dental Health. The writer, Dr. Ernest A. Branch, is the Director of the Division of Oral Hygiene of the North Carolina State Board of Health.

### WATCH THAT "SWEET TOOTH"

"More than 90 per cent of America's children suffer from tooth decay. Dental Scientists have shown that this prevalence of cavities may be due to improper diets, especially those containing an excessive amount of sugar."

"It is now known that tooth decay is caused principally by acids produced in the fermentation of carbohydrates and that the restriction particularly of sugar is effective in the control of this condition."

In the very face of statements such as the above from no less authoritative a source than the American Dental Association we go merrily on "reaching for a sweet." A hopeful sign, however, is that a guilty and apologetic tone can be detected when we excuse ourselves by saying that we have a "sweet tooth."

Humoring that "sweet tooth" is an indulgence that no one can afford. Yet, many of us do so knowing full well what the consequences will be sure, swift, and sad. The results of years of painstaking research and countless experiments leave no doubt that sugar and dental caries go hand in hand. Twenty-seven pages of the current issue of the "Journal of the American Dental Association" are devoted to a chronological review of the literature and experiments in this field from 1867 to 1953. The fact is substantiated "that the consumption of sugar by a caries-susceptible person stimulates tooth decay."

In view of this and the 1952 report of the Bureau of Agriculture estimating the per capita consumption of refined sugar for that year at 96.3 pounds, we are not surprised that more than 90 per cent of our children suffer from dental decay.

A spectacular example of the effects of sweets is furnished by the Eskimos. Extensive studies show that the Eskimo groups in the far North, whose diet consists of two-thirds proteins, one-third fats, and no fermentable sugars and starches, possess the best teeth with the least amount of dental caries of any known race. However, the story is different in Eskimo groups introduced to "civilized" foods by the traders and prospectors. In one instance, Eskimo children who had never before had a decayed tooth developed decay, in less than six weeks' time, when sweets were introduced into their diet.

The introduction of our children to sweets is of such long standing that we would not suggest the immediate and complete elimination of sugar from their diet. We do strongly recommend the following measures to

parents as effective steps in the control of dental caries:

1. Provide a well balanced, protective diet.
2. Reduce materially the concentrated sugars in the diet.
3. Serve desserts low in sugar content and high in food value.
4. Substitute fruits, popcorn, and nuts for that sweet snack.
5. Urge the brushing of teeth immediately after the eating of candy and other sweets.
6. Consult your dentist as to the particular needs of your child.

There may be readers of this article who can eat sweets with impunity. If you are one of these, you are in that 3 to 5 per cent group of caries immune individuals. Those of us who constitute the other 95 per cent must watch and control that "sweet tooth."

In next week's article, "The Dentist Is Your Friend," Dr. Branch will discuss the ways in which your dental health interests are promoted and aided by the dental profession, as well as by your family dentist.

## Negro High Schools Enter Essay Contest

### Project Planned In Four Schools In Health District

Ralph Parrish, chairman of the Health Education Committee of the Pasquotank-Perquimans-Camden-Chowan TB Association, has announced that a scholastic school press project has been placed in the four colored high schools in the four counties.

The four schools are: Edenton High School, D. F. Walker, principal; Perquimans High School, Richard L. Kingsbury, principal; Camden High School, Richard McMullen, principal, and Pasquotank High School, E. A. Anderson, principal.

Subjects for the essays for 1953 are "How Our Town Fights TB" and "What Do We Know About TB?"

The best essays will appear in the school paper and will be sent to National Headquarters to be judged along with the other school papers in North Carolina. Those that participate must have facts and information about tuberculosis. The deadline will be December 15 to be sent to the District Tuberculosis Office in Elizabeth City.

### CARD OF THANKS

I am taking this means to express my thanks and appreciation for the cards, letters, flowers sent me and the many deeds of kindness on the part of so many friends during my stay in the hospital. Thank you one and all.

MRS. SIDNEY SPRULL

Or Maybe Blind  
"My little daughter has swallowed a gold sovereign and has got to be operated on. I wonder if Dr. Robinson is to be trusted?"  
"Without a doubt. He's absolutely honest."

### CARD OF THANKS

We wish to thank our many friends and neighbors for the kindness and sympathy shown us during the recent illness and death of our mother, Mrs. Hettie Bass. Also for the many beautiful flowers.

### THE FAMILY

## HAVE YOU THE ARTHRITIS MISERY?

HERE'S WONDERFUL NEWS! Hospital tests prove Musterole gives high-speed long-lasting relief from pains of arthritis misery. Also greater ease in moving. Highly medicated. Concentrated. You can see it work to bring fast relief!

## MUSTEROLE

Were wasting our time here!

for the **FINEST FUEL OIL**  
your money can buy, call  
**COASTLAND OIL COMPANY**  
Distributors of  
GULF OIL PRODUCTS

Try A Herald Classified Ad For Quick Results!

# Notice To Taxpayers

1953 TAXES ARE NOW DUE AND PAYABLE

PAYMENTS DURING NOVEMBER, DECEMBER AND JANUARY AT PAR

Penalty Goes Into Effect February 1, 1954

# Town Of Edenton

ERNEST J. WARD, JR., Clerk

The Brilliance and Beauty of a \$250 BRIDAL SET

11 DIAMONDS  
Matching 14k. Gold Rings

Specially Priced at Only \$100

Modern design and radiant beauty are perfectly blended to form this bridal set of unusual brilliance... and yet the price is amazingly low. The engagement ring is enriched with 5 fiery diamonds... the matching wedding band sparkles with six fine diamonds. Truly a set to delight any bride.

WE ARE OFFERING A SPECIAL SALE

WATCHES and DIAMONDS

A Small Deposit Will Hold Any Article Until Christmas -

FOREHAND JEWELERS

THE DIAMOND STORE OF EDENTON

# CENTURY CLUB



2 3/4 FT.  
3 65 4/5 CT.

4 YEARS OLD

STRAIGHT BOURBON WHISKEY

THIS WHISKEY IS 4 YEARS OLD  
NATIONAL DISTILLERS PRODUCTS CORPORATION, N. Y. • 54 PROOF