

Most For Defense

Government Research Costs \$\$

WASHINGTON (UPI) —The United States government today spends more money on scientific research and development (R & D) than most other major countries of the world spend in their entire national budgets.

Much of this money goes to America's colleges and universities with UNC and the Research Triangle taking a large share.

In the fiscal year 1964-65 the government poured \$16.5 billion into research and development of a total \$27 billion that went into R & D in this country, including industry's share.

So accepted has this form of government activity and expenditure become in recent times it is surprising to think that as recently as 10 years ago only about \$3 billion annually was being spent by the government in this area. And before that much less.

Washington's plunge into R & D began in World War II, when the country needed weapons and other equipment in a

hurry, and in the late 1950s it burgeoned with a vengeance.

The result is that today the U. S. Government spends around 60 per cent of the billions lavished on research and development in the nation.

The first government agency to begin spending in a big way on science was the Department of Defense.

In the late 1950s, huge sums were required to develop missiles, new planes, nuclear submarines and intricate electronic gear. In the 10 years between 1954 and 1964, its R & D expenditures quadrupled from \$2 billion to almost \$8 billion a year.

Since 1964, military R & D spending has tapered off, an indication that the last rearmament phase is completed and that no radically new weapons are about to be introduced, at least for the next few years.

RISING COSTS

But while Defense Department spending for research

and development was still rising, the government entered another area of research which required more and more money year after year—space.

In 1964-65, the National Aeronautics and Space Administration financed research and development to the costs of \$5.7 billion.

Third among the big government spenders was the Atomic Energy Commission with \$1.7 billion.

Fourth was the Department of Health, Education and Welfare with just over \$1 billion.

Other agencies which spent more than \$100 million a year apiece included the National Science Foundation, the Department of Agriculture, and the Department of the Interior.

At the peak of World War II, funds for research and development never exceeded 2 per cent of all federal expenditures.

By 1960, they had grown to 10 per cent of the federal total, until today R&D claims 15 per cent of the budget. Indications are that the present level will be maintained for the next few years.

While the Defense Department in recent years was and still is the biggest R & D spender, actually less than half of the \$16.5 billion devoted to science in the last fiscal year was spent on weapons.

More than \$2 billion of the total was used for basic research in such fields as medicine, biology, agriculture, psychology, physics, astronomy, atmospheric sciences, chemistry and oceanography.

SMALL PART

Only a small part — about 14 per cent — of the total research and development work is conducted by the government itself. The remainder is financed by the government, but farmed out to industry, institutions of higher learning and no-profit corporations, such as the Rand Corporation, created to do nothing but research.

Industry in 1964-65 performed the lion's share, or 73 per cent, of the work. The remaining 13 per cent of the federal aid research and development funds went to colleges, universities and other non-profit institutions.

Approximately one per cent of federal obligations for research and development is spent by foreign "performers" for the U. S. government. In this category, countries in all continents are represented. Europe in 1964-65 received the largest share of \$38 million.

Asia was next with \$14 million, the Near East third with \$9 million, and Latin America fourth with about \$5 million.

Within Latin America, Peru carried out research and development worth \$1.2 million for the United States government. Brazil was second with \$921,000.

Foreign nations which undertake R&D work for the United States government include two communist countries, Poland and Yugoslavia.

CORPORATIONS

Among the most interesting performers of research and development work for the U. S. government are the non-profit

corporations which were set up for this specific purpose. The most widely known of these is the Rand Corporation.

Rand's charter, which was signed in May, 1946, established the new corporation as a virtually autonomous department of the Douglas Aircraft Company. The Air Force provided Rand with an operating capital of \$10 million and promised to keep the new unit busy with R & D contracts.

Today, the Air Force is still the principal sponsor, but Rand also performs work for the Atomic Energy Commission, the Space Administration and the National Institutes of Health.

The government seems happy with this relationship. In 1963, Defense Secretary Robert S. McNamara stated that "The larger non-profit corporations, of which Rand is the most notable, contribute immensely to the success of the Defense Department."

Joyner And Connor Quietly Change Sex

By BERNIE BAUGUESS Special To The DTH

While controversy continues, arrangements are quietly being made to move some 330 women students into the former make dorms of Joyner and Connor.

The biggest problem, quipped UNC's Housing Director James Wadsworth, is "the usual small changes in plumbing." But the work, he admitted, is a bit more complex than that, although not as much as many people would suspect.

Joyner and Connor, like Winston, which last year was converted to a girl's dorm, are so constructed that they may be rather easily changed to suit feminine living.

First floor changes will decrease the number of women who can live in the dorms as compared with the number of men living there now. There are presently around 180 men in each of the dorms. Only 160 to 165 women will find rooms in them next fall, however.

The big change in the first floor will be the conversion of center rooms into a hostess suite. The lobby and parlor facilities will be enlarged, thus cutting down on the number of first floor rooms.

The new dorms may not have the luxury of Cobb or Spencer, but Wadsworth said the same changes were made in Winston and "the girls seem real happy with it."

Although the boys will be displaced, the opening of the 10 story James dormitory on South Campus will enable an increase of approximately 1,000 new students next year.

The women are asking for a multitude of frills for the new dorms, many of which they probably won't get. But both Wadsworth and Buildings Director Russ Perry agreed that a good number of comforts will go into the renovation of the two dorms.

Besides the increased parlor spaces, the best news for the girls is that many new phones will be added. The student-to-telephone ratio on campus is now about 60 students to every phone in the dorms. When the girls move in, the ratio will be cut to about one telephone for every 30 girls. House telephones will also be added.

An ironing room and a study room will either be placed on every floor or every alternate floor for the girls. Washers and dryers will be included in the basements of the buildings.

And although neither Wadsworth nor Perry said so, enlightened boys may be assured that the Dean of Women's Office will have the locks changed on all the doors.

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CAMPUS INTERVIEWING: MARCH 1, 1967

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DAILY CROSSWORD

ACROSS

1. Prejudice
5. Injure
9. Guide rope for a horse
10. Smithy's block
12. Beginning
13. Rental contract
14. Single unit
15. Not many
16. Perry Mason's opponent: abbr.
17. Cooking receptacles
20. Through
21. Humor
22. Isles in Galway bay
23. Certain suburban homes
27. Sound, as an owl
28. Metallic rock
29. Between Que. and Man.
30. Bright red
34. Guido's lowest note
35. Mail: India
36. Devon river
37. Harmonizes
39. Poe's bird
41. Painful spots
42. Manifest

DOWN

1. — amia
2. Insert
3. Ripen, as cheese
4. Place
5. Members of the stag line
6. A fresh bugle
7. Yellow
8. Distribute cards — correctly
9. See!
11. Gains knowledge
15. Part of horse leg
18. Taunt
19. Ignited
20. Before: prefix
22. Affirm
23. Calls out
24. Floating bridge
25. Measure of land
26. Epoch
30. Impudent
31. Even era agency
32. Put forth effort
33. Canvas shelter
35. Antlered animal
38. Depression
39. Steal
40. Street sign

Yesterday's Answer

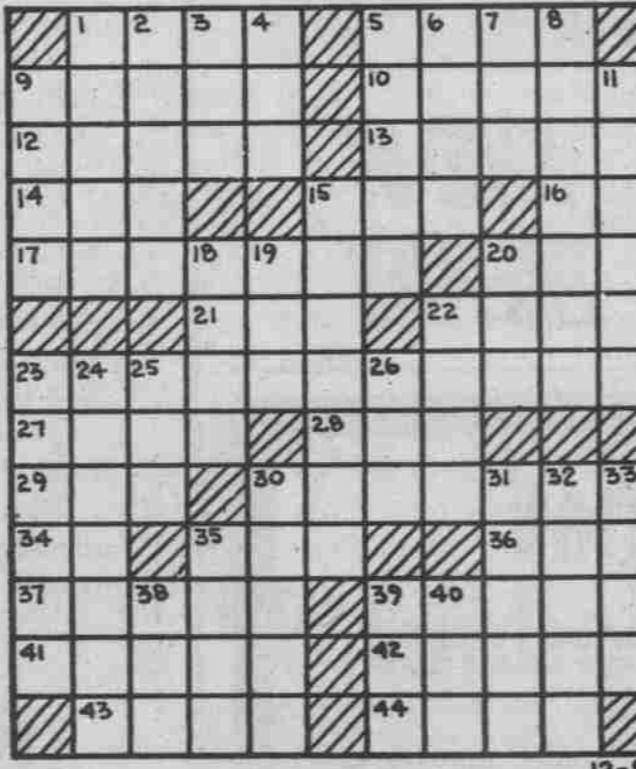
33. Canvas shelter

35. Antlered animal

38. Depression

39. Steal

40. Street sign



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Dec. 16th

PLAN YOUR PARTY NOW

I'M FREE THAT EVENING

C'MON, PET, GET Y'SELF SAT DOWN — DINNER'S ON THE TABLE — I'VE GOT YER A BOTTLE POURED OUT

YER MUST BE TIRED AFTER PLAYIN' BILLIARDS ALL MORNIN' — AVE A LIE DOWN THIS AFTERNOON, YER'VE GOT T' BE FIT T' GO T' THE PUB TONIGHT. I'LL WAKEN YER WITH A NICE CUP O' TEA

BLIMEY, WHAT'S THE MATTER WITH 'ER?

I'VE MADE A MESS' OF THE YORKSHIRES