consideration. Cancer kills 320,000 a year in the United States, but heart disease claims the lives of 735,000 individuals annually and investigators in that field might well demand a separate institute of their own. And in fact they are asking for a crash program in heart research (see p. 461).

And finally, there is the question of the money itself, of whether the Government would pour new funds into

cancer research or merely transfer resources that would otherwise be channeled among other fields.

None of these issues will be resolved easily or soon, but as one spokesman for cancer research said: "Cancer research is never going to be the same again. The mere fact of the report has lifted it out of the pack and, whatever happens, should encourage special sympathy from Congress."

OCEAN DRILLING

Probing the Atlantic's past

According to current reconstructions of the pattern of continental drift, the east coast of North America was once joined to the northwestern bulge of Africa. About 200 million years ago, the theory goes, the two continents broke apart and sea-floor spreading opened up the Atlantic Ocean between them. It follows from this that the ocean crust on both sides of the Atlantic would be the same age.

But scientists on Leg 14 of the Deep Sea Drilling Project, led by Drs. Dennis E. Hayes of Columbia University's Lamont-Doherty Geological Observatory and Anthony C. Pimm of the Scripps Institution of Oceanography, have found evidence that the eastern coast of the Atlantic is much younger than the western coast.

Fossils recovered from sediments directly overlying the ocean crust near the continental margin of West Africa indicate that the sediment, and therefore the crust, is only 110 million years old—45 million years younger than the oldest sediment recovered on previous legs of the project from the continental margin of the eastern United States.

To explain this discrepancy, the researchers propose that a narrow proto-Atlantic Ocean once separated the United States and Northwest Africa.

LEG 14

DRILL SITE

"One thing that supports this theory," says Dr. Hayes, "is that the Mid-Atlantic Ridge is not quite 'mid,' but is about 300 or 400 kilometers closer to Africa.

The second puzzle is where the proto-Atlantic came from. There are two possible explanations, says Dr. Hayes. "Either there was an earlier phase of spreading along a zone that has since been obscured, or it was there all along.'

At another site, about 400 miles from the West African coast, the researchers drilled into a small conical structure protruding from deep within the sediments to near the sea floor. Similar structures in the Gulf of Mexico had previously been drilled and found to be salt domes, frequently associated with oil and gas. Seismic surveys show many such structures along the coasts on both sides of the Atlantic (SN: 8/15, p. 142), and many people assumed that they were also

This ancient ocean, they suggest, must have been enlarged to the present ocean by sea-floor spreading along a rift that was closer to Africa than to North

America.

salt domes and attached high hopes to them as potential sources of oil. But when the dome off Africa was

Scripps

Leg 14 sites: New light on continental drift patterns and mineral resources.

drilled, it turned out to be of volcanic origin. There were no signs of salt or hydrocarbons. "We've deflated a balloon," says Dr. Hayes.

Another significant discovery, says Dr. Hayes, was a gap of as much as 60 million years in the age sequence of several sediment cores from the floor of the eastern Atlantic.

Similar gaps had previously been found in cores from other parts of the ocean, says Dr. Hayes, and these new cores show that the phenomenon occurs over a very large geographic area. The ages of the missing sediments also correspond, he points out, to the period of mountain building in Africa and Europe, when the Alps and the Atlas Mountains were forming. Both phenomena, the researchers suggest, may be related to a change in the pattern of continental drift 30 million to 70 million years ago.

SEABORG ELECTED

In-house politics at AAAS

The annual process of electing a new president of the 135,000-member American Association for the Advancement of Science is usually carried out quietly behind the scenes with the appearance of goodwill and unanimity that scientists like to present as their public face. In past years, the election attracted little outside interest. The AAAS, although large, is diverse and without any strong tradition for activist involvement, as an organization, in public issues of science.

But the AAAs is a changing organization, and this year's electoral process produced sparks. The announcement this week of the election by mail ballot of Dr. Glenn T. Seaborg as president of AAAS climaxes a period of unusual turbulence for the organization. The basic issue centered on the possible conflicts of interest some AAAS Board members felt might arise between Dr. Seaborg's duties as Chairman of the Atomic Energy Commission and as president of the AAAS. But before the electoral process was over, the secondary issue of the appropriateness of a news article discussing opposition to the Seaborg candidacy in AAAS's weekly magazine, SCIENCE, had arisen and the magazine's news editor, Daniel S. Greenberg, had resigned.

The whole thing began in June when the AAAS Committee on Nominations and Elections selected Dr. Seaborg and Dr. Richard H. Bolt of the Cambridge, Mass., consulting firm Bolt, Beranek and Newman as candidates for the presidency. The nominations were announced in September, but by November enough internal opposition had surfaced for the AAAs board chairman, Dr. H. Bentley Glass, to describe to

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