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Science in an Election Year

1981, now safely behind us, was a year when scientists spent more ene searching for signals as to where the scientific enterprise stood in nation's business than they, or the nation, could afford. It was a yea discontinuity, with policies determined by the budget instead of the o way around. Now the question is whether, in an election year, scientists get back to work with fewer alarms and distractions and with rene energy.

One would like to practice composure, believing that the budgetary g have subsided and that, with the sacrificing of science education, ene conservation, and much social science research, the worst is over. The may even be optimists hoping for new scientific goals to be proclaime the next batch of state messages. Such blessings being unlikely, decis makers should know that the recent ordeal of fiscal confusion and retrei ment has shaken the research system profoundly. Defensive managemen research and development, burdened by prospects of continued uncert ty, leads to hedging risk and exposure and to a climate of mediocrity.

But it is important also to preserve a degree of perspective. Science not been ditched as a public sector good, and the government is not canting its commitment to basic scientific research. The provisions for search and development in the aggregate, helped by the pumping u defense-related research, look healthy when compared with progr serving less fortunate groups who depend on considerate public policy Head Start program does not deserve lower marks for social value than give to science education, for both programs make better citizens. Pleathat basic research be sheltered while ignoring the predicament of humanities does not ennoble science. 1982 will be a more decent year scientists address the dilemmas of budgetary justice evenhandedly.

Moreover, budgetary expediency is not the only problem. Science a instrument of diplomacy in an edgy world is poorly understood. Instea being employed for long-term stability in great power relationships an dealing with the developing world, it seems to be dispensed as either rev or punishment. To make matters worse, international communicatio science encounters fretful interventions from government on grounds th is exploited by our adversaries. Little mind is paid to the consequences policy of scientific concealment for the free-world countries, which this way for leadership.

Closer to home, the postwar construct of the R & D enterprise b thinking about. Serviceable as it has been, it shows signs of aging struggle. The triad of academia, industry, and government, sustained consensus rather than fiat, has fewer unifying principles than legend we have it. Under continued economic stress, if that is in the cards, quality and possibly structural changes soon may have to be faced. Unthink though it seems, the United States may have built a scientific reservable capacity that the government partner no longer can maintain in the ro style it requires. The implications of this are profound, and all the a natives carry costs. But the price of avoiding the question and seeing strong survive while the weak lose out will, in the end, be higher. erosion of capacity and potential in the research universities and multigram government laboratories which results from continued cutba freezes, and equipment obsolescence has foreseeable consequences. The must be averted while there is still time to think the problems through

One of the brighter aspects of our governing process, in recent years, been the steady gain in congressional understanding of the roles and use science and technology. In an election year in which economic argur will be the main attraction, the need to sustain leading-edge research innovation and to count it as investment rather than consumption shoul beyond partisan dispute. If this much can be agreed to, there is hope for balance of science's troubled agenda.—WILLIAM D. CAREY