

explore biological functions and diagnose and treat diseases. We may see astounding advances in biology and medicine from the combination of the atom, the computer, and electronics. Such techniques as whole body activation analysis, irradiation from highly specialized medical accelerators, and advanced surgery via the laser might be in common practice.

Within the next few decades we should see the atom playing a major role in space. It will power synchronous communications satellites that will make global television direct to the home a valuable medium for education and cultural exchange. It will fuel nuclear rockets that will make possible deep-space explorations with a heavier payload and will power life-sustaining systems that will allow longer manned space voyages. Perhaps, beyond the year 2000, it will give us the transportable power to establish a colony on the moon sometime during the twenty-first century. I hope that by then we will have made the earth the most desirable place to spend most of our time, however.

In the spirit of this convocation, I have spent much time looking toward a future that would be free of many of the problems that plague us today. I have not sought to offer specific solutions to these problems as much as to try to evoke a new spirit and approach to their overall challenges. I believe that many changes in our attitudes and our ways of thinking could prevent much of our current haphazard planning and misguided action. I question whether we can afford to have so many individual forces at work—often at cross purposes—and so much power being wielded unwisely. How much longer can we attack each crisis unilaterally and separately and live from crisis to crisis?

The time has come for more consensus and commitment toward common goals and common dreams. All would not be frozen in these goals as in some master plan for humanity. There will always be changes and conflict and new ideas and new values evolving from them. But not to establish some goals and dreams worthy of a massive degree of effort and the necessary sacrifice leaves us at the mercy of a future without a future—one in which technology would compound and reinforce all the errors of our past. We can no longer afford to have the sins of the fathers visited upon their children. If we are to arrive at the year 2000 and view about us a world worth living in and worth turning over to future generations, we must conceive most of that world today and build it with every succeeding tomorrow. This is the time, we are the people—and perhaps America is the place—where it might all begin.