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age where mankind not only moved into the future -- but re-invented it.

This evening, we honor men who embody that age: Jack Kilby and Robert Noyce. // And their work which divides all that came before from all that came after. // Not to date myself, but when I was growing up PAC-Man was a hiker, not a video game. // The microchip has changed all that -- and helped America change the world.

Think, for example, of a computer the size of a room -- shrunk down to a size that fits on your lap. The microchip made it possible. Or a calculator slashed from the size of a refrigerator to the size of this pen. [PULL PEN CALCULATOR FROM POCKET] Integrated circuits have enabled us to do the unimaginable. Now, it is unimaginable to believe we could ever live without them.

Already, the microchip has helped America not to de-industrialize -- but re-industrialize. Or to paraphrase Churchill, never has something so small done so much for so many. // Yet remember, too, that if we are to lead the world, we must provide that world with further breakthroughs. For engineering is "always a beginning, never a consummation." //

I know that the National Academy shares this belief. So it has studied how America's engineering talent enhances our competitiveness. And is exploring new ways to protect the globe from environmental abuse. // You realize that truly informed decisions on issues like climate change require us to better

integrate science, technology, and engineering into the public policy equation. //

Our Administration agrees -- and so supports research and development in all areas of science, technology, and engineering. We have asked for a record high 71 billion dollars for R&D in our budget for Fiscal Year 1991. // And to short-circuit the prediction that a decade hence America will be short of engineers, we have begun National Science Scholars initiative to give kids a new incentive to excel in science, mathematics, and engineering.

Yet enough about what government is doing: It is the private sector which will shape the New Millennium. So look at General Electric, which is spending \$1.2 million a year on minority science scholarships. And \$20 million annually to increase engineering's number of inner-city kids. // Or Mobil -- launching grant programs to help high-school students spur America's technological capability.

These programs can, and will, spur the computer revolution. And contribute, as your Academy says, "To the advancement of engineering . . . and the quality of life." They will nurture your achievements -- and their reduction to practice. And reinforce the spirit central to the ~~genius~~^{of} of engineering -- and, yes, the man for whom this evening's prize is named. //

Charles Draper was, first, an idealist pushing back the boundaries of mankind's technological future. Yet at the same time, practical. ((I'm reminded of a writer who was asked what

he would take if his home were on fire and he could remove only one thing. // "I would take the fire," he replied.)) Dr. Draper knew that Yankee ingenuity revolves around what works.

Finally, he was indomitable -- he would not be defeated. And looked to himself for inspiration. No government planner, he knew, decided that Marconi would invent the wireless. And what might have happened -- or worse, might not -- had Henry Ford been forced to wait for Washington's approval before testing his model-T? // If he had, Barbara and I might have come here on a bicycle built for two. //

Albert Einstein once spoke of this genius of engineering -- which explains, in turn, the greatness of Dr. Draper. He said: "Everything that is really great and inspiring is created by individuals who labor in freedom." Laboring in freedom, Charles Draper well used that freedom. Used it to create and to inspire -- and to make history move his way. //

This evening, we honor two men who themselves have made history -- and made each American proud. So let me now present to Jack Kilby and Robert Noyce engineering's highest award -- the Charles Stark Draper Engineering Prize. And say: Thank you, God bless you, and God bless the United States of America.

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