

commercial and government laboratories on at least five basic approaches toward direct energy conversion, then this question of getting to the moon and back cannot be based on the kind of computations and energy sources that are used in such computations today. All these matters to hand-in-hand.

So I say--and this is only my opinion, for which you asked--that this country, leaving out national prestige, which I think is enormous, is rich enough to afford that. I think that in doing it there will be not alone a tremendous number of new knowledge discoveries, but in the long run, like Antarctica, with economic implications as well, I believe in it.

QUESTION: Mr. Ward, do you visualize any future military requirements in space?

MR. WARD: Yes, I do. If there were not anything to it but developments like the Navy satellite system for better navigation, or things like the Air Force satellite system for global intelligence, /to use the proper word/ and if there were not anything beyond that, I would think it was justifiable. But on top of all of that is the commercial end. I would enjoy giving and expanding for you my views on how military research breeds commercial products and strengthens the commercial economy. COMSAT was just financed in Wall Street, and what happened? So many people tried to buy shares in COMSAT that the stock went up by a fantastic amount, and the conservative professional people on Wall Street said, "Hey! Not so fast. We are not going to pay any dividends for a few years." But AT&T said that it would cost approximately \$1.2 billion to do with traditional systems what one COMSAT system can do for a maximum of \$300 million.

Now, if you can get payoffs like that, you have got tremendous commercial interest, besides which, if you are a philosopher, you can say that it will bring the countries of the world closer together. We will be seeing each other's television programs--sometimes God forbid, but we will. There will be an exchange of cultures. So I say those are the direct benefits.

On top of all this is the need to develop defenses against enemy offensive space weapons systems. About actually using space for a fighting weapon system, this is a little more difficult to prognosticate at this moment. I would rather say that if you do not do anything more than what I have discussed, you have got a big plus.