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Reel
44

Box
14

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681

If I Ascend the Heavens: How Will Space Travel Change Our
Lives and Our Thinking?, 1957.

"IF I ASCEND THE HEAVENS"

November 17, 1957

Rabbi Daniel Jeremy Silver

A few of us have seen the Russian satellites orbiting above our heads. More of us have heard rebroadcasts of the radio sounds which they signal back to earth. These two flying objects moving about our earth at incredible speeds signalize dramatically the dawning of a new age. It will be called the age of space flight. It will be the age in which previously earth-bound man will cast off this earth limitation and will begin to adventure into and pioneer some of the frontiers of the universe. It seems that in the history of human invention man's fancy, man's ^{out-runs} imagination, his capacity to produce. Well over three thousand years ago, Greek legend tells us of a master mechanic, Daedalus, created the first successful man flight. This very mechanic was imprisoned by the king of Crete, but the usual avenues of escape were closed to him. He resolved to try and fly over his guards and thus escape the prison house. He took the feathers of many birds and he ^{birdlike} fashioned them into a pair of wings held together by clay and by wax, and he put these wings upon his shoulders and arms and upon the shoulders and arms of his son Icarus and they began to fly, and escape this prison. And the legend tells us that Daedalus did indeed successfully escape from Crete as far as Sicily by air. Only his son failed in the flight, because he attempted to fly too high into the heavens, and the heat of the sun's rays burnt the wax which was holding the wings together and he plunged into the sea. And according to tradition, these wings which Daedalus used to escape from ^{the prison at} Crete were dedicated at the temple of Apollo in Sicily, kept there by the altar as reminder to man of this great accomplishment not to be repeated for some three thousand years. And after three thousand years of thinking, of imagining, after men like the universal genius Leonardo da Vinci had actually

sketched a workable scheme for a flying machine, man within our lifetime, at least within the lifetime of some who are here, learnt the art of flying, and now we think nothing of spanning this continent in a matter of hours.

Space flight grew in much the same way. For a century now, we have been told by the writers of science fiction about new worlds into which we can ascend. It is a century exactly since Mr. Jules Verne wrote a very beautiful and imaginative story about a rocket train to the moon. And he and Mr. H. G. Wells and their many, many co-authors in the field of science fiction made our minds familiar with the geography of other planets, with Martian men, and with some of the scientific difficulties of space travel. And we all remember, I think, with tolerant good humor that day some twenty years ago when Mr. Orson Welles produced near-panic on the eastern seaboard of our country when in a very realistic radio broadcast he described the landing upon the fields and marshes of New Jersey of some thousands of men from Mars. Most of us, as late as October third of this year consigned most of this discussion about the possibilities of space flight to the area of science fiction. It was a literary conceit. It was a product of man's imagination, and we felt it had little real possibility of being made part of the program of our daily lives. October four we awoke, and we awoke to a new age. Sputnik I was flying above our heads at eighteen thousand or near to eighteen thousand miles per hour. It took it less than ninety minutes to circumnavigate the globe. This year, which had seen us enjoy the limitations of several ^{generations} ago, which thought that it was still a matter of dare whether a man could circumnavigate the globe in forty days, this generation, this year we had to accustom ourselves to the possibility of circling the earth in a matter of minutes. We awoke in a new age, the dawning of a new century. We awoke to many new problems and concerns with which I should like to deal this morning.

What will this new age mean for man? It will mean first of all, I think, that we will have to accustom ourselves to entirely new concept of distance and of speed.

Some of us are still amazed at the possibility of boarding a flight here in Cleveland and three or four hours later arriving at our Pacific coast. We are overwhelmed by the speed of the Sputnik, close to eighteen thousand and some miles. And yet we will have to accustom ourselves to even greater speed, and and even more telescoped distances, because the scientists are telling us that in the years ahead, through means of new power propulsions, through ions and by means of photons, man will ^{some day} ~~soon~~ learn to travel at speeds close to the speed of sound, close to 186,000 miles per second. And Venue, our nearest planet, which is twenty-five millions of miles away at the nearest point between its orbit and ours, and Mars, which is thirty-five millions of miles away, will seem to be as close to us as Tokyo or London or Rome. And the nearest star, which is twenty-five trillion, two hundred billions of miles from this earth, can be reached in a matter of years, rather than of centuries. Man will begin to explore first the near reaches of this universe of ours, and then he will probe ever further into the mysterious unknown which surrounds our earth. It promises to be a great and wonderful age in which to live, for us and for our children and for our children's children. None of us can conceive of what this new age will mean for man. None of us knows about the new discoveries, about the fundamental laws of the universe, those laws which govern the movement of the most gigantic of galaxies, of millions of stars and the movements and genesis and decay of the most minute sub-atomic particle. Principally, this new age will bring to us in this generation new knowledge, because the satellites and the rockets and the space ships will be used first and foremost for research. We will be told a great deal about the nature of the atmosphere which surrounds our world. We will learn a great deal more than we now know about that which causes our weather to change. Long range weather forecasting will become a matter of detailed accuracy, and one can imagine the great blessing and boon that this will be to man. We will be less and less subject to the apparent whims of nature. Scientists tell us we will be able to predict years of

drought and years of excessive rain, the genesis of the tremendous tropical storms which so disturb that part of the world. We may even learn how to make the great deserts blossom and the frozen north-lands grow again with greenery. We will learn a great deal about the use of our radio and television waves, how to make it possible for them to travel unimpeded and uninterfered with through our space. We will be able to map the mineral resources of this world and to map accurately the topography of our earth. We will learn a great deal more about that mysterious force which we call radiation. Medical science especially will be interested in the effect of cosmic radiation, of all types of short wave radiation upon human tissue, and in these studies they may find cures for the diseases which still baffle the medical research person - cancer, the mysterious process of debility and senility and death, decay - all these will be searched out, and undoubtedly startling new discoveries will shower down upon us. Truly this age promises to be one of great boon and great blessing to our earth. It will be possible for us to travel out into space. It will be possible for us to search out answers to questions which still intrigue us. And probably the first question which each of us must ask and will ask is "Is there other life in this universe of ours? Is man unique? Does life exist only upon this earth, or are there other planets circling around other suns in this galaxy or ⁱⁿ any other on which there is life such as we know? Will this life be primitive, much like the life which Columbus found upon the shores of North America when he discovered this continent, or will it be a type of life higher than man, superhuman, with a higher degree of culture and civilization than the human species has developed?" We do not now know. The most powerful telescopes which we have been able to devise will never be able to tell us, because they cannot magnify sufficiently even the closest planets to answer this question for us. We do not now know, but as we read the literatures of the physicists and the biologists and the astronomers, one is struck by the almost unanimous affirmative answer which they give to us on this question. Yes,

they do believe that life exists elsewhere in this globe. They argue from the laws of probability. They tell us that this universe and the stars of which it is composed, the great solar systems of which it is composed, came to be in rather uniform ways, following basic laws of nature. And just as it was possible for our sun to develop planets which circled around it within its gravitational field, so in our own Milky Way galaxy, where there are hundred millions of suns similar to ours, there are probably millions of planets also similar to ours, with temperature ranges, with atmospheric conditions much like that which features this earth. They tell us that there is life elsewhere in the universe. Mr. Fred Hoyle, a noted British astronomer, estimates that in the Milky Way alone, in this galaxy of which our sun is just one small star, there are probably a billion planets somewhat similar to the earth on which life can exist. And there are in this heavens of ours hundreds upon thousands of multi-million star galaxies, each with its own potential for holding life. Yes, the scientists believe that we will find life as we course out into the universe, but we will not know until we travel, research, and report.

What of our own solar system? Is there life ~~upon~~ any of the other planets which circle this globe? Again we do not know. Scientists tell us that the planets which are closer than Venus to the sun are too hot to sustain life, and the planets which are further than Mars from the sun are too cold to sustain life. Venus is the planet most like ours in size and in shape. Some believe that it has an atmosphere capable of sustaining life. But in one of the miracles of scientific ingenuity the atmosphere which surrounds Venus has been researched, and we know that it consists primarily of carbon dioxide, where our atmosphere, our air, consists primarily of nitrogen. So if there is life, it is life which will have to have developed different systems of breathing than those to which we are accustomed. Is there life? We do not know. We shall have to go to see. Mars, the planet immediately outward from us from the sun, seems to offer a more promising prospect.

The great telescopes of Mount Palomar have told us that Mars has two polar caps of snow, much like the poles which top and bottom this earth. They seem to see on Mars patches of red and of green enlarge and decrease, apparently with the seasons, and some scientists have said that these represent some form of simple vegetation, expanding into more northerly and southerly regions during the summer months of Mars and contracting during its colder periods. The famous canals of Mars are held by some to be watersheds, carrying the water which would be necessary to irrigate large areas and permit them to grow vegetation. Is there life? We do not know. There is the possibility of life - that is certain, but we shall have to go and we shall have to see. And the amazing thing about this new age is that soon we will have the capacity to go, and to research, to find out, because we will have developed the powerful propellants which will permit a space ship or an unmanned rocket to break out of the earth's gravitational field, and we will have solved, scientists tell us, within a matter of years, the many troubling technical scientific problems which ^{still} impede the actual sending out of such ships, because we will have to experiment successfully and solve the problems of the weightless isolation of the universe and of its intense cosmic radiation and of its unrelieved darkness. But these aeronautical engineers, these scientists and physicists tell us that these problems can and will be solved, and our generation is not one which will again close its ears to such prediction. The first trips, the first trips which these manned or unmanned rocket ships will take, will be to our own planet, to the moon. You may recall reading in the papers just last week that there was a great deal of speculation that the Soviet Union would send a rocket missile to the moon on the anniversary, on the fortieth anniversary of the Bolshevik revolution. Obviously they have it in their potential to send such a rocket ship there now. We certainly are not far behind. It will be only a matter of years, perhaps, until a ship, manned by men, is sent out to our moon and circumnavigates it and returns to us. But we know that there is no life on the moon. To go to the moon is simply a

research advantage. We want to know its mineral composition, its geography and its topography. We want to take a look at the back of the moon, which man has never seen. It will afford us another point of reference in space from which to make accurate astronomical observations. And I think ~~that~~ this research potential of the space age is the first potential which man will realize, because space flight will be used in the decades ahead and possibly in the centuries ahead primarily as the instrument of research rather than a means of transport.

We have spoken already of some of the benefits and boons which earth-bound man will gain from this research. We cannot predict others. But it is interesting to remember that the satellites were first sent into space as a research complement to the international geophysical year, as a means of studying certain predetermined problems to which the scientists now want an answer. And they will find the answer, and their answer will bring healing and blessing unto man. But it will bring also danger and tension to our society. Every new age has dawned uneasily. It is not easy to accommodate a pattern of living, economic and political routines to new invention. You will recall that when the first steam engines were introduced into the factories of England during the early days of the industrial revolution the workers organized themselves into mobs and ravaged the countryside, breaking into the factories and breaking these engines in order to, or so they thought, protect their jobs. I am reminded of the line from the Book of Proverbs, "In much wisdom is much vexation. He who increases wisdom increases also his sorrow". For truly our potential for sorrow, for human anguish, is greatly increased by this dawning age. Not only the overwhelming fear that the new rockets will carry a war-head rather than a research-head, but also the fear that this new age will bring about the end of the great democracy in which we live. Democracy will be greatly threatened by the economic and by the political ramifications of space flight. It will tend to concentrate power into the hands of the few. It

will inevitably tend to force government to underwrite research, because no single institution, no single pocket can absorb the high cost of such research. And where there is government subsidy, there is always the danger of governmental control. Scientific know-how will bring power to a few, and our society will have to learn to accommodate itself to the institutes and the pressure groups which the scientists will inevitably develop. We will have to develop a modus vivendi by which our traditional civil rights, the tradition of principles of humane living and the high standard of living which we have adopted, can be accommodated, can be developed, and can be enlarged in the new age. And I do not believe that this problem will be easily solved. We have already seen some of the pressures which impinge upon our society because of this space flight. Already our school systems are being subjected to great pressure to increase the amount of science in their curriculum and in their requirements. Already we are wrestling with the problems of making the scientist more of a status figure in our civilization so that we can attract more of our bright young men and young women into this field. Already we are creating jobs in our government which give to scientists untrained in fields of government though highly trained in their own specialties great power, great control over the future welfare of our nation. And these pressures will increase and double and redouble themselves, and we have to ask ourselves whether man can control his scientific creation, or whether we have breathed life into a Golem, into a scientific monster who will overwhelm us, and instead of bringing us blessing, bring us only hurt.

I feel, I think I know, deep down in my heart, that man has the capacity, the courage, the understanding, the wisdom to accommodate his society to the new age as he has accommodated every previous society to every previous scientific invention. But I do know this - that it will require the concentrated and cooperative efforts of men of good will in every country in every walk of life. They must be determined,

they must be fixed in their purpose, they must be dedicated to the basic principles of humane rights and civil rights. Together they can create a paradise here on earth. If they do not work together, we can create a holocaust here on earth. I feel that man himself senses this power which he now has to create a good life and not to fall into the cataclysm, the caverns of defeat.

Think of man. Think that in the calendar of world history man came into this world but a minute, two minutes ago. Look at him then. He stands before you naked, toolless, homeless, fireless. He has no power save that which he has in his own two hands. He has no civilization save some instinctive ability to garner food, which permits him to survive. This is the man who tamed the wild animals that he might ride them and use their power. Who cultivated the wild grains and brought sufficient food to his families and to his clans. Who fashioned the natural ores of our world into tools of great precision and great usefulness. Who tamed his own wild passions and learned the arts of community living. This is the man who learned to use fire, who learned to use the metals, who learned to sail the seas, who created great religions to sustain him and to encourage him, who created great works of beauty to enthrall him and to ennoble him. Who fashioned the disciplines of medicine to heal him and to give succor and sustenance to his body. Who began to think about his world, to raise himself above the fears with which he was born, the limitations with which he was born, the ignorance into which he was born, and to create for himself a civilization whose breadth and whose depth can but amaze but enthrall. Often he was stopped for a moment. Tyranny and ignorance, selfishness and short-sightedness, all these stood as obstacles in his path. But somehow, in every age, in some way, new life, the new light of knowledge, the new light of learning, the new light of technique and of know-how, insight into his own situation, into the situation in which he

found himself the world, was added bit by bit to the storehouse of world knowledge. In its pursuit he crossed oceans and deserts, vast uncharted regions. He braved great peril, and now he stands before you, poet, author, healer, scientific genius. Will man who has come so far lack the courage and the ability and the willingness to sustain what he has achieved, to take a new invention as radical as was the control of fire or the development of the simple hatchet or of the steam engine or of the plane, and use these for his benefit rather than for his hurt. I think that ^{can and} man/will show the courage and the willingness to sacrifice, we shall bring blessing in this new age. And as he walks down the way into the future, man of the space age will find that he does not walk alone. God, as always, walks at his side. And I think that this man of the twentieth century and of the twenty-first century will be more conscious of the sustaining power of God than was man of our century and of the last century. Because as he probes into the universe, as he sees and is awed by its overwhelming power, by its expanding infinity of distance, by the hundreds upon millions upon billions upon trillions - our language lacks the correct words of planets and of stars which inhabit it - as he understands the secret of the power which moves it, orderly, purposefully, through time, this man can but be amazed at the power of the God who created it, who fashioned it and gave it form and purpose. He will be closer to God than perhaps we are, locked into our cities, away from the fields, away from nature, and not open again as he will be to the mysterious tremendum, the holiness, the universal power which is revealed in the heavens.

Man's mind cannot comprehend the heavens beyond. And as the space-man probes these new frontiers he will find that always beyond him there are areas yet to be researched, frontiers yet to be broached, mysteries yet to be explained, power and purpose yet to be exposed. He will live close to God, he will feel God's benign ^{and} purpose ~~in~~ His love, and drinking from this new-found fountain of faith, faith in himself and in his God, I am confident that he can make the space age into a truly

blessed age for man. He must learn - he must learn to cast aside all philosophies of despair, all theologies which limit man's power, which speak of man as impotent, inable, unequal to the task. He must cast aside all atheistic philosophies and agnostic philosophies which do not give him the sense of cooperative power with God. He will do so. He will find again the value of the two basic principles on which our faith is based - faith in man, who is little lower than the angels though he is limited by his own humanity, and faith in God, creator and sustainer of the universe, who spoke and it was, who gave us life because it is good.

Amen.



3) Time Reaction & attitude have shifted over over heads these past few weeks. Many have seen them. Many now heard ~~recount~~ ^{recount} of the radio signals that they sent down to earth. Speeding at nearly 15,000 mph around our globe, the spiritual symbolizing the dawning of a new age. We are entering the age of space travel. We are entering an age in which previously solid band men will buckle himself most distance with space to send out and visit the other worlds and other systems which populate our universe.

Man has caught up with another of his fancies. Over 3,000 years ago the Greek ^{mathematician} Daedalus dreamt of escaping ~~the~~ ^{his} prison into which he had been thrown by the King of Crete by fashioning wings of feathers and thus fled to escape the same. Legend tells us that he succeeded admirably in fashioning successful wings for himself and for his son. This supposed to have flown from Crete to Sicily safely - Daedalus lost his leg on the way because he flew too high - too near the sun - and the rays burnt his way by which his wing was held. Through the centuries the man dreamt of flying. Around the year in which Columbus discovered America, the amazing genius of Leonardo Da Vinci sketched the blue print of a flying machine. And after 2,450 years since the Greek first told the legends of Daedalus - machine airplane began to fill the air.

Space travel began as did air travel as a happy ^{conceit} ~~fiction~~. Just over 101 years ago Jules Verne described a Rocket Train to The Moon. H.G. Wells and his many disciples in the literature gave us fiction, unbridled and enlarged our dreams. Space ships, Martian men, and the geography of other planets were familiar themes of our literature reading. We remember well that good humor to see Paris when Mr. Anson Wells precipitated when on a radio program 20 years ago he described ^{most} realistically the landing of Martians on the fields of New Jersey.

On October 2nd of this year - for most of us - the possibility of space travel was still a pipe dream invented by the authors of science fiction. On Oct. 4th we awoke to a new world.

of our subs.
It seemed quaint that a generation ago to circumnavigate the globe in 80 days was a feat.
The discovery of an atomic bomb at the possibility of speed, a new era

2) There is, of course, still to-day no ^{light} operation. The 2 Russian
opticians are flying at impressive speeds but are contained within
the restraining walls of the earth's gravitational field. Before actual
operation can be accomplished many problems will have to be
solved.

new and more powerful propellant will have to be developed. Techniques must be perfected to free the human being to carry his own environment into space; so that its weightless isolation, its intense radiation, and its unrelieved darkness does not render the human space traveler to helpless immobility. But aeronautical specialists tell us that it is now but a matter of time before all these experiments are accomplished - and none of us will ever again close our ears to their predictions. At my table here but undeniably the means will be developed to man's sufficient propulsion power, ^{pend a spaceship} to break out of the earth's gravitational ^{pull} and for the space pilot inside to land in relative speed and comfort into space unknown frontiers.

~~2) As a human being has not yet achieved a journey before the sun, it is not yet believed that ^{it will} ~~it will~~ ^{be able to} ~~be able to~~ ^{reach the sun.}~~

3) Space travel is to be a fact. The seemingly prohibitive distance between ourselves and the other planets is to be bridged. A new conception of speed must become ^{accepted} ~~part of~~ ^{by our minds}. Sputnik is ^{speed} ~~speed~~ ^{traveling} the heavens at about 18,000 M.P.H. Certain rockets can develop to 25,000 M.P.H. speeds which scientists tell us will be necessary to break out into space. These speeds defy description. Yet even at such dizzying pace ^{the nearest} ~~the~~ planet Venus lies years away and the nearest star would require that generation die & another be born on earth before it could be reached. Our mind can hardly conceive such speeds and already our technicians are telling us ^{several} ~~new~~ methods of propulsion by means of photons or ions which can move ^{rocket} ~~spaceships~~ through space at speeds close to that of light. In comparison 18,000 M.P.H. will seem sluggish. Think of traveling at merely 186,000 M.P.H.

That Venus at its nearest point is 25 million miles from us and
more 35 million miles at such speeds ~~with~~ ^{without} ~~no~~ ^{no} further
than Chicago by air to-day by air.

What will we find when we visit the other worlds of our
universe. Is there life elsewhere in our universe? ~~Yes, in that~~
life, ~~superior~~ ^{or superior} to us in skill, mental ability and degree
of civilization? No one yet knows. If man had remained earthbound,
we would never have known. Our most powerful telescopes could
~~never~~ ^{not} ~~reach~~ ^{reach} the planets ~~so~~ ^{so} sufficiently to answer the query. It is
surprising the almost unerring affirmations ~~some~~ ^{some} which
astronomers & physicists make ^{They believe, that} ~~to~~ ^{that} life does exist
elsewhere in our universe - but ~~there~~ ^{there} are many planets ~~not~~
which our existing instruments are not able to see.

The noted British astronomer Fred Hoyle estimates that in
our galaxy alone there are over 1 million planets capable of
sustaining life - to say nothing of the possibility of life in the
thousands of other galaxies & the galaxies which we have observed
in the far reaches of our universe.

3) Most of us are intrigued by the possibility of visiting the planets and
traveling about our universe. We are intrigued by the possibility of life
elsewhere in our universe - and if the flying saucer ~~is~~^{appears} as an
indication - a little frightened. A ~~few~~^{few} of the ~~saucers~~^{saucers} have ~~been~~^{been}
~~found~~^{found} ~~perhaps~~^{perhaps} that other men would be superior to
civilization and subdue us. But perhaps also they would prove no
more of a noble than the American Indians proved to European explorers.

So these life elsewhere in our universe. The scientific and
astronomical answers preponderantly in the affirmative - The
probability is that other life does exist. The noted British astronomer
Fred Hoyle even goes so far as to estimate that there are 1 million
planets in our galaxy which are capable of sustaining life - to
say nothing of the possibility of life in the ~~hundreds~~^{thousands} of other galaxies
other galaxies that we have revealed in our universe.

This scientific angle that space is a relatively uniform
phenomenon and the galaxies and stars which inhabit
this space have developed along uniform patterns. The
probability is high that other stars have planets which
then ^{are} like our sun and that some of these planets would
have atmospheres and temperatures relatively like ours. The
number of known stars runs into the thousands of millions.
The probability of such planets is high.

We shall not know, however, for a long time. The nearest star lies at $4\frac{1}{3}$ light years or
some ^{25 billion}~~200 billion~~ million miles out in space. ^{What about}
life on the planets which lie ^{nearest to us} under the sun?
The nearest planets are apparently too hot and the ~~nearest~~
further away apparently too cold. Speculation has centered on
Venus and Mars.

Venus is apparently much like our earth. It is closest

to us in any and distance. We know that it is surrounded by clouds and
in other places. In one of the truly strange marvels of scientific discovery
last other place has been studied and we know that it is many
times - dark. Our world is a very strange, it is possible
for ~~things~~ to exist in various places, but each of us would have to know
developed different images of other appearances and be able to adjust
to other things.

[illegible]

Our own people are more interested in
Then even more collection that the Russian would find
and lead to the moon in hours of ^{the} 40 1/2 hours of
the Bolshoi Nomenclature and more. Certainly, both on
counts and the USSR possess the ability to act off and in
outside of both

[illegible]

most of us - perhaps all of us - will remain earthbound throughout our
lives. This will not mean that space travel will not affect what we
do and how we will. It will - in many ways.

As an instrument of research, earth orbiting and space based,
will provide the upper reaches of our atmosphere for vital information
necessary for accurate ^{hydrographic} weather forecasting, ^{uninterrupted} television and radio
broadcasting, & cartography. Platforms can be located high in
our atmosphere which will capture some of the energy of the sun
rays and transform it into vitally needed power. We know
to-day that cosmic ^{collections of} radiation vitally affect human tissue. In all
probability medical research will send up specimens
to test the effect of intense radiation on all forms of life. ~~And~~

Knowledge so gained may help us discover remedies for such
diseases as cancer which still lie beyond our control, ^{& perhaps even tell us something about the mysterious power of} gamma rays

We shall learn infinitely more than we now know about
our universe and about the great powerful forces which govern
its operation from the gigantic galaxies to the smallest subatomic
particles. The more we know, the less we will be subject to
nature's apparent whims. Years of drought and years of excessive
rain can be predicted and ^{adequate} preparation made. Advances in
can be had of the formation of storms and typhoons. ~~Not to mention~~
not power beyond any that which man now controls will be at
his disposal.

All this will affect every part of our life patterns. Indeed even
before any of this information has been released - we can see
in embryo some of the forces at work for change, a new age ~~at~~
will be an age when the basic principles of science must be
broadly understood. ^{The scientific content} ~~Education~~ of our school
curricula will certainly be increased. President Eisenhower

2 believe they will be solved because the suffering of man's past
achievements has never been so dramatically highlighted. He has
climbed so far - 2 feet - a knee - he needs a chance to go.

In the ^{ancient} calendar of creation man came on the earth but a
moment ago. Pass him before your eyes. There he stands naked,
humble, feeble, toothless. He has no power save that of his
two hands - no civilization ^{primitive} ~~with~~ ^{just getting old} ~~and~~ ^{which} ~~he~~ ^{seems} ~~him~~ ^{to}
survive. Watch the man learn to live and to domesticate the
wild animal, cultivate the wild grain, control the wild fire,
shape into tool the natural one, and he can with impunity and
he may live together with other men. In pursuit of the life giving he
leaves the now empty desert, uncharted forest, impassable
jungle, and finds the new man. He is surrounded by enemies
and plagued by fears. His every achievement is paid for in blood
and tears - yet he is undiminished - the people on. He is slowed
by ignorance, by fear - by the selfishness of others & by shortsightedness -
But he clings on - driven by a power he does not always understand.
He develops sanctifying, sustaining religion. He creates amazingly
art and music. His death becomes known. He looks understandingly
out at his world & unavailingly at himself. ~~He~~ ^{Increasingly} ~~he~~ ^{he} ~~sees~~ ^{sees} ~~and~~ ^{and}
machines ~~the~~ ^{includes} ~~his~~ ^{his} ~~own~~ ^{own} ~~world~~ ^{world} - such is life. Each day
in some way he adds more of light - of knowledge - of beauty & of
power.

Pass man now before your eyes - a civilized, civilized, civilized -
civilized. Will the man now lose all that has been one with
such difficulty? Will the man make his achievement much
less to a degree on a again. Will the civilized man make his
achievement even the human not be able to control his destiny
on earth.

I think he will

I am confident he will.

He need not fear himself unequal to the task. When he is frightened of the task, let him but think back on the long road behind - the road ahead will not seem so perilous.

For he will have men to walking the way alone. And - as always - will be by his side. He will have much need of faith & trust in God - of God's encouragement & good counsel. And I believe he will find a deep love for God & faith in him - ~~and~~ perhaps ^{even} ^{an} even eye.

SKIN the heavens. To our naked eye they seem like a grey sky and dark spots filled at night. At night the naked eye can see 6,000 stars under ideal conditions. A modern telescope reveals that our own galaxy contains 100 million stars - and set in it comets and following some ordinary comets and planets. To the eye the stars seem but another mile or so higher than the clouds. We now know that there are stars so many billions upon billions upon billions upon billions of miles away from our earth that our light ^{never} ~~cannot~~ reaches as planets and that our language has not created a word to describe their distance. To understand the heavens is to be thrilled at its size and orderliness - it is to stand in awe & reverence before the God who ^{created} ~~made~~ it.

11 p'122 p'1208N p'1242

The heavens declare the glory of God - saying
ancient psalms

An Einstein thrilled to the music and marvel of the spheres and felt its throbbing power led him to faith in God's ineffable creative power.

A space man will live ^{deep} on the frontiers of an expanding infinity
of universes. Only the ~~universe~~ ^{universe} could be deaf to the ^{message} ~~message~~ of
revelation by an ~~universe~~ ^{universe}. They will ^{to fulfill} ~~use~~ their own abilities and yet
see how in the yardstick of the universe ~~superior~~ ^{superior} ~~reach~~ ^{reach} and
the scope of distance do not begin to measure up against God's
created majesty.

A privileged man faces his new opportunity - he must drink deeply
of the water of respect of his own potential and respect for God's
creative power. He must need both love and obedience
faster to meet the difficult day ahead. So armed I am confident
that I will be a part of the ~~universe~~ ^{universe} blessing for man!!

