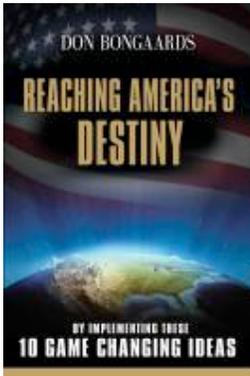


DON BONGAARDS

REACHING AMERICA'S DESTINY

BY IMPLEMENTING THESE
10 GAME CHANGING IDEAS



Author Don Bongaards believes America was founded on a series of miracles, and has a destiny that needs to be fulfilled. His 10 game changing ideas are part of a 50 year plan that not only gets America back on track, it also makes America more prosperous and influential than it has ever been. From this new position of strength, it can lead the world's poor and destitute people to a prosperous and fulfilling future.

Reaching America's Destiny

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Reaching America's Destiny

Don Bongaards

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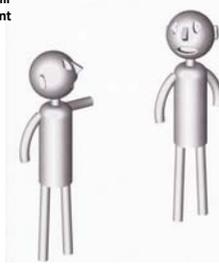
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First Edition

Chapter 2 -- The Future and Beyond

What do you think will be the most important future invention for mankind?



Interesting question. My guess is humanoid self replicating robots

Future Technology

The title of this book is *Reaching America's Destiny*. This of course begs the question -- does America have a destiny? It also begs the question, if America does have a destiny what happens after it's reached? As you know from reading the introduction, I believe America was founded upon a series of miraculous events. If you believe in God you might say that these miracles indicate God has a special interest in America and America has a destiny to fulfill. If you don't believe in God, or miracles, America is just another trial and error experiment in an attempt to reach utopia. If this is your

mindset, perhaps you should skip to the last chapter in this book, titled "**Food for Thought.**"

So what is God's ultimate plan, and how does America fit in to that plan? Well in order to answer this question it might be worth examining where we are today and where technology is taking us in the future. I believe many of our past and future technological advancements have been, and will be, inspired by the way in which God has designed the universe and planet Earth. The wherewithal for discovering electricity has always been there, it was just a matter of us finding it. Perhaps God was trying to give us a hint by providing the natural laws that generated lightning. Certainly the nuclear fusion that powers the sun had been staring us in the face for a long time before we finally understood how it worked. Amazingly it took us thousands of years before we finally comprehended the message. Even more surprising is the fact that these and other discoveries have come into existence in recent years. With regard to hydrogen fuel, I believe God has again given us a hint by making our planet's vast amount of water from the elements of hydrogen and oxygen. Enough hydrogen fuel exists for billions of people living on planet Earth.

If God is helping us advance our technology, what is the purpose? Is human advancement of technology part of God's grand plan? Yes -- I think it is. I believe there are too many coincidences of natural laws, circumstances, and available materials that have made technological advancement possible; they couldn't have just happened by accident. It appears, for some reason, that God wants human discovery and technological advancement. Moreover, for some reason, America appears to have a special role to play in this process. Therefore, by examining where technology is taking us, some of God's cosmic puzzle may be revealed, including where America fits in to the overall scheme of things.

Maybe I should again heed Yogi's advice when he said, "don't make predictions -- especially about the future;" but since predicting the future is one of my hobbies, I thought it might be a good way to

illustrate how technological advancement can have a profound effect upon the lives of future generations.

As an engineer my interest in the future is more associated with "game changing" inventions and ideas that will alter the way we live our lives, rather than with how governments, laws, and the media can artificially transform the way humans think and live. Future technological changes will probably have a profound effect on human lives, and these changes might help to reveal God's plan. They might also show how America has an important role to play in the process.

Let's begin with America implementing my yet to be revealed **10 "game changing" ideas** over a 50 year timeframe. As a result the United States becomes prosperous and more influential in world affairs -- including providing the energy, water, technology and partial funding needed to bring the world's impoverished people from poverty to prosperity. In 50 years the world's population will have grown to over 10 billion and nuclear fusion energy will begin to emerge. We might also have developed a Moon base and begun transporting high valued metals and helium 3 back to earth. Helium 3 is in itself a "game changer," in that it is readily available in space and is the most appropriate fuel for nuclear fusion energy. Transporting materials from the Moon to Earth will require an intermediate step. A robotically built orbiting space station will be needed to process the Moon materials in zero gravity. The space station will most likely be a cylinder that rotates to simulate gravity on its inner surface, and serve a secondary purpose of transmitting solar electrical energy to Earth in the form of microwaves.

With the above conditions as a starting point, let's go further into the future to see how technology advances, and human lives are changed. Perhaps we will then begin to see what God intends for the human race. For purposes that I'll explain later, I won't refer to the Bible, since at this point many might think God's plan is already spelled out and whatever I say about the future is meaningless. To this I say --

keep in mind that Christ's return may not occur for another thousand years or more and God's plan may require future technologies to exist first. Humans have thought that Christ's return has been imminent for more than two thousand years -- why not a thousand more?

Recent history has shown many of our modern day inventions were derived from science fiction books and movies. Although Leonardo Da Vinci didn't write a book, many illustrations in his sketchbook show his unusual ability to predict future inventions (weapons of war, flying machines, water systems, and work tools). Likewise, Jules Verne predicted battery powered submarines, helicopters, and rocket ships. In recent times the televised Star Trek series gave us some ideas that may still come to pass -- like warp speed, phasor weapons, holodecks, molecular transportation, and tractor beams. While these future predictions may serve to capture our imagination they are more geared toward entertaining television and movie viewers.

Well -- my predictions of the future are considerably different from that of Star Trek. I'm not predicting encounters with unusual beings like "Klingons," or space battles that endanger planet Earth. In fact my predicted spaceship varies considerably from the Starship Enterprise. And, while my predictions may be less entertaining, I can assure you that they are equally intriguing -- perhaps even more so since they are extrapolated from currently known science. To me, this is an important aspect since it's easier for most people to identify with and understand.

I agree predictions about the future are probably best described in the form of a science fiction story. So, that's what I'll do. My story is excerpted from a book that I may publish next. It's titled "Epsilon Eridani," and it's about a multi-generational spacecraft that travels to the Epsilon Eridani solar system to investigate an earth-like planet. I've gone out of my way to make the book exciting and entertaining, but contained within its pages are many coincidences related to Earth's formation, human evolution, and history; and these

coincidences differ considerably from what many people have been led to believe. The following is excerpted from the beginning of Chapter 1 and another chapter that describes some things that I think you will find quite fascinating.

The Epsilon Eridani Story

Hello my name is Britt Harvath. It's the year 2360, I'm one hundred and thirty six years old. I live on a very large spacecraft, and I will be your tour guide. We are currently orbiting the Epsilon Eridani planet that contains animals and what appears to be intelligent but primitive life. It has taken one hundred and ten years for our spacecraft to get here from planet Earth, and my great-grandson -- Jason Harvath -- is currently organizing an exploratory team to investigate what's on the planet's surface.

Ok -- you want to know more about our spacecraft. Well as you can see I'm sitting on a bench in a park located on the top layer of the inside surface. In case you're wondering why I'm not floating around in zero gravity, it's because our cylindrical spacecraft is rotating so that objects -- including me -- are held onto the inside surface by centrifugal force. It's like the force you feel when you tie a ball onto the end of a string and spin it around.

Before I describe the internal parts of this spacecraft's design, I need to tell you that it's sixteen miles in diameter and forty eight miles long. Pretty big -- huh? It was made almost entirely from materials obtained from the asteroid belt located between Jupiter and Mars. Our oxygen and nitrogen atmosphere was derived from processing asteroid materials and from Jupiter's moon, Titan. When asteroid materials are processed, a derivative of this process is oxygen, and nitrogen was transported, in frozen form, from Titan's surface. Our water was obtained from the asteroid Ceres and our helium three fuel was derived from Jupiter's upper atmosphere. In fact since we left Earth, more than ten thousand, sixteen mile by forty-eight mile satellites -- pre-spacecraft -- have been robotically built, and Earth's

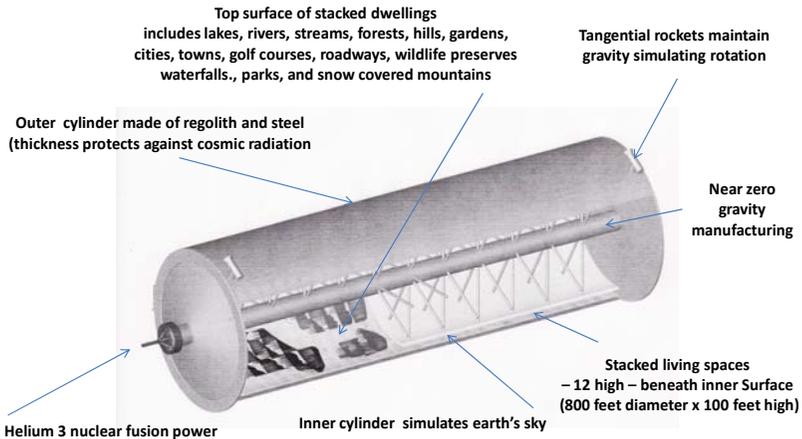
population is migrating to them as soon as they become available. When I tell you about how our spacecraft's living spaces are constructed, you will understand why this migration is happening so rapidly.

From what scientists have determined, we could build as many as twelve million satellites from the enormous amount of materials available from the asteroids in our solar system. With each self contained satellite being capable of comfortably and luxuriously housing as many as two and a half million people our limit could be thirty trillion inhabitants. And, now that I see the materials available here in the Epsilon Eridani solar system, it appears that human population growth could be endless.

Ok -- now let me describe the internal design of our spacecraft; but to do this you need to come with me to one of our museums where they have a high definition hologram that describes our spacecraft better than I can with words alone. Would you like to go there in an electric vehicle on our roadway system or using our maglev train? Personally -- if you are not in a hurry -- I recommend the electric vehicle since it will give you a better view of our upper level common area. Oh -- you agree with me. Ok then, I'll signal one of our electric vehicles to pick us up. Boy -- that didn't take long. Please get in and I'll tell the vehicle where we need to go. The first thing I want you to notice is our blue sky and wispy clouds. It's done with a combination of LED lighting, a translucent surface, and water vapor. It's almost a mile above our head so from our vantage point it looks like it did when I lived on Earth. We simulate night and day on a twenty four hour basis and at least once a week we have a preplanned weather occurrence like a rainstorm. In the mountain zone we simulate snow storms that keep the ski trails fresh. Notice the fenced in area that we're now passing -- it's one of our wild animal preserves -- safari trips are available, on a daily basis, if any of you would like to go on one. Yes -- there are numerous uniquely designed golf courses, in fact we are going to pass by one in a few minutes. Yes again -- we have lakes, rivers, streams, waterfalls, flower gardens, and forested

areas. We also have schools, universities, sports stadiums, hospitals, churches, and office buildings. Ok -- we've arrived, I'll send the vehicle back to its underground parking space, and retrieve it when we are ready to leave. By the way -- that vehicle is powered by a miniature helium 3 fusion electric system -- pretty cool -- eh?

Ok -- here we are at the spacecraft hologram:



**Self Contained Space Station Habitat and Interstellar Spacecraft
(16 miles in diameter x 48 miles long)**

As you can see, the thick walled outer shell of the satellite/spacecraft habitat was designed to protect its inhabitants from such things as meteors, solar flares, and cosmic radiation. Obviously the inside part of the satellite is immune to Earth's problems of hurricanes, earthquakes, tornados, ultraviolet and cosmic radiation, volcanoes, tidal waves, a rising ocean level, and magnetic field reversal. In addition, with on-board sensors, it's capable of manoeuvring away from asteroids, comets, and potentially damaging space debris.

The main thing I want you to notice are the stacked circular structures located beneath the top surface common area. They are

stacked twelve high and there are one hundred and five thousand of them. They are eight hundred feet in diameter and one hundred feet high, and each family living on board owns one of them. With more than half of these structures being reserved for food, energy, materials processing, water storage, sewage treatment, manufacturing, and other purposes we can accommodate an eventual population of about two and a half million. When we started our journey to the Epsilon Eridani solar system many of these living space structures were left empty to accommodate population growth. In fact, when my wife and son and I left Earth one hundred and ten years ago we began with a population of only two hundred and fifty thousand. During the trip we've grown to more than six hundred thousand. So we have more than enough space to accommodate a growing population for our one hundred and ten year trip back to planet Earth. I'm sorry to say that our medical advancements haven't progressed to where I'll live to see that day.

If you think our spacecraft is impressive, wait till you learn about how the living space structures are designed -- it will blow your mind. First of all the interior space has an ultra-high definition hologram at the far end that can project anything from a Pacific Ocean scene to a view of a New Hampshire mountain range. In the foreground trees and plants, that are indigenous to the holograph scene, are arranged to enhance the perceived reality of the view. Further enhancement for a Pacific Ocean view can be provided by adding salt air, the sound of crashing waves, and seagulls. Best of all the holograph and foreground plantings can be changed occasionally for variety.

Notice the uniquely styled house located at the back end of the living space. Generally speaking, most people prefer an upside down house where the bedrooms are on the bottom floor and the living area is on top. This of course maximises the magnificent views. With a one hundred foot high ceiling, LED lighting, and holographic imaging the simulated sky looks very real. Moreover, variations in weather can be programmed as desired.

Now here is the best part. Each family is given an android. The android is fueled by nuclear fusion and can perform any function that humans are able to do. And -- you guessed it -- they do everything from cooking the meals to manicuring the garden areas. One interesting and important aspect regarding the androids is their ability to repair and replicate themselves.

I think you can understand why Earth's population has been migrating to these living spaces in droves. With an abundance of helium three fuel, construction materials, and robotic -- android labor, the living spaces and material accommodations are essentially free. It's a form of utopia, but the humans need to supervise android activities and contribute to society. Obviously they have time for raising children, improving their own education, and other things that -- in the past -- was limited by working for a living.

Ok -- now for a history lesson to let you know how we got here. Back in the year 2070 a huge space interferometer telescope array had been deployed by NASA to focus on the Earth's closest star systems that were most likely to have Earth-like planets. This imaginative solar system wide telescope had the ability to see and spectrally analyze planets as small as our Earth's Moon, at a distance as far away as thirty light years. Although it was hoped that our closest star system, Alpha Centauri, at four point three light years away, would yield an Earth-like planet, it had long been theorized that this was very unlikely. The reasoning was that in a binary -- or trinary system in the case of Alpha Centauri -- star system, a gaseous planet like Jupiter could not exist because of the heat generated by the adjacent stars. And, without a Jupiter sized planet, an Earth-like planet would be unlikely. That's because Jupiter, with its enormous gravity, collects up most of the asteroids that may collide with and devastate an Earth-like planet -- a space vacuum cleaner, so to speak.

Looking beyond Alpha Centauri, the telescope array discovered an Earth-like planet in the Epsilon Eridani solar system -- ten point eight light years from Earth. Although its sensors could not determine the

exact composition of the planet it did show a distinct blue, green, and brown color, which would be indicative of water, vegetation, and land.

Of particular interest was a Moon surrounding this planet that was almost the same size, distance, and orbital rotation as Earth's Moon. The Moon was of special interest since it's believed that life could not have evolved on Earth without the Moon, because its gravity acts to stabilize the Earth's tilt axis and cause ocean tides.

Of further interest was the existence of gaseous and solid planets that looked very much like Earth's solar system. Unfortunately the interferometer telescope could not detect objects the size of comets or asteroids. Since no radio signals were being emitted from the planet, speculation about the possibility of primitive life began to grow. As a result of this finding, NASA was given the green light to launch an unmanned flyby mission -- a one way mission that doesn't slow down when it reaches its destination -- a fuel consuming requirement -- to evaluate the Earth-like planet in more detail. Because of the required one hundred and ten year flight time, it was decided not to make the trip longer by exploring closer solar systems like Alpha Centauri, Barnard's star, and Sirius.

In the year 2080 the unmanned flyby spacecraft was finally launched to explore the Epsilon Eridani solar system. Upon arrival, one hundred and ten years later, its images and sensor readings were sent back to Earth. However, by the time the radio signals -- transmitted at the speed of light -- were received back on Earth, it was the year 2200. But, when they were received, the data was astonishing. The probe's telescopic images confirmed the existence of life. In fact the real probability of human life was inferred by the existence of manmade objects and what appeared to be the movement of animals and human beings.

Fortunately, because of overpopulation and energy shortages experienced in the twenty first century, humans had begun migrating

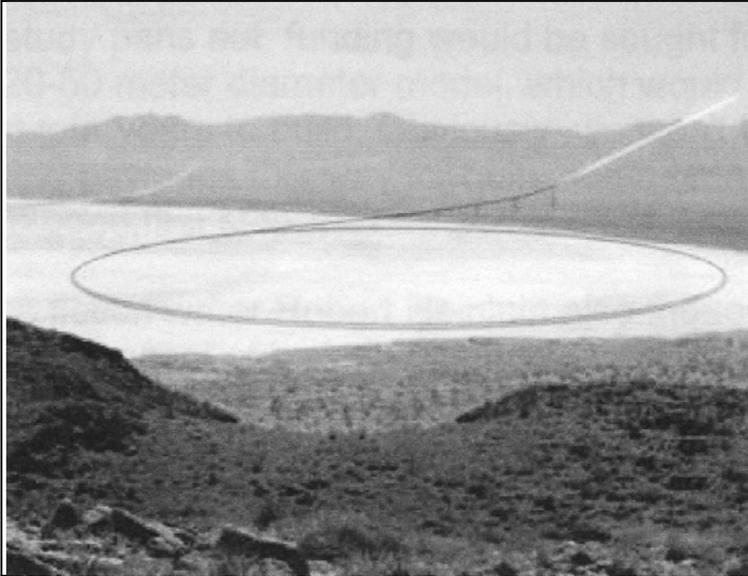
to space to live in orbiting satellites. By the year 2060 the United States had just completed its first commercial demonstration of helium three fueled fusion electric power. Helium three was a substance found in the upper atmosphere of our gaseous planets and also deposited on the Moon's surface by solar winds. In a nuclear fusion reaction, helium three atoms, when joined together, produced two electrically charged protons that can generate electricity directly without requiring the additional step of converting heat into steam. And best of all the fusion process was completely safe, and did not produce radioactive waste.

At this point in our history lesson, I want to go back to the year 2070, where NASA had established a base on the Moon and deployed a successful mission to Mars. Because they didn't find life on Mars, taxpayers were unwilling to support future space exploration that didn't have a payoff. Since Mars had an elliptical orbit that resulted in extreme temperatures, and didn't have a protective magnetic field, NASA finally admitted that terra-forming Mars, for future human habitation, was impractical.

It was at this crucial point in time that President Thomas Mitsufugi announced that he had received approval from congress to redirect NASA's efforts to that of mining helium three on the Moon. He also received an agreement from every electric utility company in the United States to build at least one helium three fusion electric power plant within five years, and negotiated with other countries that showed a willingness to participate. Since the Moon was not owned by the United States, an offer of technical assistance was made to any country that would like to develop a mining program. Willingness to have an all-out effort to build helium three fusion power plants, was a direct result of prior failed energy policies, and a sense of panic as fossil fuels were becoming much more scarce.

The initial phase of the mining program consisted of building a launch ring which used superconducting magnets. This provided a much lower cost method of putting cargo, rather than humans, into

space when compared to NASA's abandoned space shuttle program. The cargo, which could withstand very high acceleration forces, permitted mining on the Moon, including the construction of a Moon based catapult launch system. In addition a shuttle vehicle was designed to deliver Moon materials between the Moon and Earth orbits.



Electromagnetic Launch Ring

Besides helium three, many other valuable elements were found on the Moon – including platinum – that could be used to coat the electrodes for hydrogen fuel cell vehicles that were being used at that time. As it turned out, the Moon's craters contained these valuable elements near its surface. Because the Moon had only one-sixth of Earth's gravity, the valuable minerals, contained in the asteroids -- that had impacted the Moon -- remained near the Moon's surface. The theory was that when the Earth, Moon, and asteroids were solidifying, heavy elements like gold and platinum did not oxidize,

and because of gravity and buoyancy, they settled toward the centers of these bodies. Other elements that readily oxidized, like iron, calcium, and magnesium, floated to the surface; thus when asteroids impacted the Moon, large quantities of these heavy non-oxidizing elements -- that existed at their centers -- became available near the Moon's surface after the impact.

As time went by an improved mining program was initiated by creating a Moon regolith (Moon soil) processing station in space. This processing station consisted of a large one mile diameter by four miles long rotating cylindrical satellite. The rotation simulated Earth's gravity on its inner surface, just like our spacecraft does today, and provided living quarters for workers. Since solar intensity was eight times stronger in space, than it is on Earth, several large solar collectors were used to power the regolith processing system and beam excess energy back to Earth using microwaves. This energy was used to power the original electromagnetic launch ring plus several others as time went on.

Thanks to the work of physicist Brandon Johnson, everyone today has their own low cost helium three fusion modules to supply home electricity and power transportation vehicles. And, with space based robotic collection and processing systems, helium three eventually became inexpensive and readily accessible. Helium three became inexpensive because by the twenty second century it was being extracted from the upper atmosphere of Jupiter. At that time spacecraft were being sent to Jupiter to extract and liquefy helium three and transport it back to Earth.

Upon successful completion of the first mining space station in 2106, a proposal was made to double its size, using residual Moon regolith and iron by-products. Unlike the first space station, the second station was built entirely by robotics. The only human activity was to provide processed Moon and Earth materials and the robots did the rest. Because of improvements made over the previous years, the second space station was completed in only twenty five years.

By the year 2220, after successive redoubling in size, a sixteen miles in diameter by forty eight miles long, orbiting cylinder was completed. And, with the addition of helium three nuclear powered rocket engines it was converted into a spacecraft that could take humans on a one hundred and ten year voyage to explore Epsilon Eridani's Earth-like planet. It was named Epsilon 1 to commemorate the voyage that it was about to take.

To ensure sufficient and reliable electric power and propulsion for the round trip, redundant fusion reactors and an excess of fuel were provided. However, twenty three more years were needed to fill the fuel tanks with helium three from the upper atmosphere of Jupiter and from the water containing asteroid Ceres. Seven additional years were required to board a beginning population of two hundred and fifty thousand. That included me and my family.

Chapter 17

I could have stopped at this point in the Epsilon Eridani story, but I wanted to include excerpts from chapter 17 because I think you'll find it to be quite interesting and entertaining. It illustrates the contrast between primitive and advanced technologies, and how people's lives are influenced. This part of the story begins at a point in time when the Epsilon 1 spacecraft is ready to return to Earth, and a family from the Epsilon planet's inhabitants has agreed to return with them. The Epsilon family is partially comprised of Jason's Harvath's son, Stewart, who, during an encounter with the Epsilon people, married a girl named Wanaka and had a baby. Wanaka is the granddaughter of the planet's leader -- Homanz. Included in the epsilon family were Wanaka's immediate family and relatives -- including Homanz. The people who lived on the epsilon planet were quite primitive -- similar to ancient Egypt -- and at this time in the story, had not been exposed to Epsilon 1's technology. So with this introduction -- here we go:

Their arrival back to Epsilon 1 was greeted by a large crowd of cheering people and marching bands. Homanz, Wanaka and others in the family are surprised and pleased by this welcoming. The warm greeting allowed the Epsilon 1 population to publically demonstrate their acceptance to a new way of life. In fact the Epsilon 1 population was anxious to see the family's reaction when they saw where they were going to live and the technologies that they were about to experience.

Although Jason did not approve of having the press intrude on the privacy of the family, he realized they had become celebrities. And, unless the public saw them at this time, they wouldn't stop hounding him until they did. So he reluctantly agreed.

The plan was for the family to visit Jason's home module as a first step. In preparation for this, the press was allowed to set up cameras at hidden locations. The fact is, Jason, his wife Jennifer and Stewart were also anxious to see the family's reaction. Sort of like seeing the reaction of a child opening a Christmas gift.

It was planned that the arrival at Jason's home module would take place at mid afternoon, and after describing what the family would see in the home module, they would spend the night. The next step was for Stewart to show Wanaka their home module the next day, with other family members going to their home modules at the same time. Jason and Stewart had done a lot of work helping to design the new modules so that the families would feel at home; such as having replicas of furniture and other items made as part of the home module style. The landscaping was made to look like their former home planet, and the holographic imaging was recorded from surroundings that were familiar to them.

Because a fence had been set up to block the epsilon people from seeing the Epsilon 1's common area while they were being rescued from their planet's flood, this was the first time for the family to see the wonders of this man made paradise. Although the people on

board Epsilon 1 had become used to the common area, to a newcomer, the views would be breathtaking.

Using his translation device, Homanz asks Jason, "Why you have kept this from our people?"

"Homanz -- we made a decision at the beginning of the rescue to not expose your people to our technology. There is an old saying, that what you don't know can't hurt you or make you envious. If the Epsilon people knew of our technology they would probably want it for themselves, and it would make their lives less content."

"I understand, Jason, but this tells me you not know true nature my people."

"Homanz, you are probably right, but first we need to travel to my home, on board this train."

While on the maglev train, the Epsilon family expresses amazement at the quiet speed and luxury they were experiencing. Upon arrival at Jason's home coordinates, they travel by way of an elevator to Jason's home level, and enter what appeared to be a wonderland. At one end of the 800 foot diameter by 100 foot high living space was a magnificent house with beautiful landscaping. On each side of the house stood detached buildings. At the far end, opposite the house, a magnificent ultra-high definition view of the Pacific Ocean could be seen. Aside from the actual size of the living space, everything appeared to be infinitely expansive. The ocean view was one of looking from a high cliff, with tables, chairs, fire pit, barbeque, and kitchen appliances arranged for dining and relaxing activities. From this cliff side vantage point a person could smell salt air and listen to the sounds of crashing waves and seagulls. Between the house and cliff were perfectly manicured pathways, gardens, and trees, intrinsic to Earth's Pacific coast. At the center of the home module was a large uniquely designed swimming pool. The pool had a white sand

bottom and two bridges passing over streams that connected two smaller sized pools.

As the Epsilon people looked in awe at the magnificent sight of Jason and Jennifer's home module, an android approached them, driving an open electric cart. The android asked six of the group to get in the cart for the trip to the house, and before leaving, said that he would come back for the remaining four on a second trip. Stewart, Wanaka, and Wanaka's mother and father stayed behind and advised the android that they would walk to the house.

The house was well appointed and functional. It was an upside down house, in that five bedrooms, with separate baths were located on the lower level, while the kitchen, dining room, and living area were located on the top floor.

In preparation for the visit, the android -- named Joe -- had prepared the five bedrooms to accommodate the family members, however, because the bedroom space was limited, the plan was for Jason and Jennifer to spend the night in the poolside cabana and recreation room.

After showing each family member their accommodations, Joe told them to meet by the ocean side cliff for dinner. He had prepared a dinner that included the planet's indigenous food recipes to help make the guests feel more at home. Before the dinner, everyone was offered wine and a chance for conversation. When they had all gathered, Jason stepped forward to speak to the group.

"I know each of you has questions, so this is a good time to do so."

Wanaka stands, "Will each our family have place like this?"

"Yes. Stewart, Jennifer, and I have spent much time designing each of your home modules, and I hope you like them. Homanz will live in his son and daughter-in-law's home module, but will have a

separate house. Our plan is for each of you to visit your home module tomorrow."

Wanaka's mother says, "I see many things, but not know about them. Please explain how work."

"Yes -- let me begin -- they work using what we call electric power. Electric power, for all that you see, is provided by special boxes that receive fuel from pipes. This fuel is like coal or firewood, but we call it helium three. In addition to the helium three fuel, we also receive air and water from pipes. Waste and trash is processed in each home module and sent in special containers to a central location using a second lifting device like the one you came here in -- we call it a service elevator. The android, named Joe, removes trash each day. Special containers of food and other needs, come into the module using this same service elevator. These needs are ordered by a device that senses that we are running out. For instance if we need a container of salt, the salt holder senses that it needs to be replaced with a filled container. When the new container arrives, Joe places it into one of the salt container holders and removes the empty container and sends it back for reprocessing. The empty salt container is then cleaned and returned to the salt refill location. In other words, all food containers are reused so there is no resulting trash."

With a puzzled look on his face, Wanaka's father asks "how you move house and big things to -- what you call -- home module."

"We use a third elevator for big things. Our house was made of smaller parts and fitted together in here. We design all large things to fit into the large elevator. These parts are also designed for disassembly after the house becomes old. We use this method for almost all of the things that you see, so that everything is reused. When disassembled house parts cannot be reused to remake a new house, the materials are reworked for other purposes."

Wanaka's cousin points to the android. "How work Joe?"

"Joe is like a human, except he is mechanical, and operates using electricity. Joe can work 24 hours per day. During the day he does what you see him doing now, but at night he spends most of his time working on our landscape. When flowers die he replaces them. When leaves on trees die he clips them off. When weeds grow he plucks them out. When grass is too long he cuts it. When trees get too tall he uses a machine to cut branches. When trees die, he orders new trees and cuts the old tree for making wood products and mulch."

Wanaka steps forward. "How look like ocean?"

Jason smiled. "I assume you mean the view that we are now looking at. It is an artificial image, but as you can see it looks very real. Jennifer and I like this image very much, but we are planning to have a new one soon."

"What new image like?"

"Jennifer and I have decided to do something like one of our neighbors. It's an image that simulates the four seasons on our home planet that we call spring, summer, fall, and winter. It will be a mountain view from a place called New Hampshire. Since we have almost unlimited fuel for electric power, our home modules can simulate temperatures and conditions without concern for running out. So in the four season image, we will have lower temperatures in the spring, winter, and fall, including rain in the spring, and snow in the winter. Because our current landscape design is for a mild climate, we will replace everything that you see, like palm trees, with maple trees and grassy meadows. Even though we can easily create the artificial image now, we need to spend time modifying the landscape to match the image."

Homanz wrinkles his brow. "What work people do?"

Jason nods. "Good question. Everyone who is able to work, is required to work two days each week, but can work more if they want to work more. Almost all manual labor is done by androids -- like Joe. So almost all human jobs are to supervise androids. Everyone receives the same pay credits whether they work more hours or have a highly skilled profession -- like a doctor. Since everyone can have almost anything that they want, a pay credit limit prevents abuse."

Homanz asks "How you decide good worker from poor worker?"

"Homanz -- that's a very good question. We have twelve sectors-- each having a large city -- or what you might call a village. Each sector has a yearly competition for awards. Awards can be for excellent products or service, and includes movie production, sports and school competition. The top sector gets a special recognition each year. This recognition includes having each family getting extra credits toward things like a more frequent remodeling of their home module."

Wanaka sets down her drink. "So what people do when not working?"

"Wanaka, we work to better ourselves. What I mean is -- we learn as much as we can and do creative things -- we also exercise and play sports to improve our health."

"What you do?"

"As you can see I have, what I call a creativity workshop -- located to the right side of our house. In this workshop, I have woodworking and metalworking tools. I also have an exercise room and a place to write books. To the left side of the house is another creativity workshop for Jennifer. Jennifer likes to grow things like flowers and vegetables. She also likes to compose music and paint."

Wanaka responds, "What Stewart do?"

"I can't speak for Stewart, but I know that he plans to spend one more year at the university to get his doctor's degree in science. After that he will probably work at the central science laboratory with me. And, if I know Stewart, he will become consumed in his work, and like me he will work more than just two days a week. What do you say, Stewart?"

Stewart pauses for a moment. "You're right about going back to the university, but I don't know about being consumed by my work. Right now, I want to spend as much time as I can with my family."

Jason looks around the room. "Are there any more questions before we have our meal?"

Wanaka's cousin raises his hand. "What kind jobs we have?"

"There are many types of jobs from which to choose. Since you are familiar with hunting, farming, and fishing, you might chose to supervise one of our wild animal preserves, cattle ranches, food growing facilities, or fisheries. Ok let's sit down to eat. We can talk more then."

Epilogue

If you want to know what Jason and his crew found on the Earth-like planet and the subsequent events that took place – look for my next book that will probably be titled "Epsilon Eridani." The main point I am making here is to describe how Earth's humans might accommodate a growing population by living in space and eventually traveling beyond our solar system in multi-generational spacecraft. To achieve traveling at a speed capable of reaching Epsilon Eridani in only 110 years takes a lot more imagination because accelerating and decelerating to and from 1/10th the speed of light (18,600 miles per second) would take an enormous amount of fuel. If we do

eventually travel to the stars we will probably need some form of antimatter propulsion system.

By the way, in case you don't remember what I said at the beginning of this chapter -- I'll repeat it here: I believe many of our past and future technological advancements have, and will be, inspired by the way in which God has designed the Universe and planet Earth. The reason for this repeat is because after reading the Epsilon Eridani story you may want to consider other hints that God has provided for us humans to discover new technologies. In this regard, many of the animals God has created were meant to provide us with clues. By observing animals and their miraculous capabilities it's fair to assume that some animals were created to tell us something that will help advance human technology. The first thing that comes to mind is migrating birds and fish that seem to have a built in GPS system. Other examples include amazingly strong spider webs and bioluminescent animals that may play a part in our technology future.

With regard to the Epsilon Eridani story I thought of ants and bees that relentlessly pursue a single task. Isn't this what we could do with millions of self replicating and programmable robots working in space and building huge robotically built satellite/spacecraft? If I had the resources needed to develop a movie, I would visually show how this could happen. I would begin the movie with a zero gravity space factory in which materials from asteroids are sorted into their various types. Included in the factory would be a sub-factory that continuously creates millions of humanoid robots. Using the asteroid materials, the humanoid robots would operate other sub-factories that -- among other things -- make tunnel boring machines and cargo carrying spacecraft. The movie would show millions of these spacecraft and boring machines relentlessly excavating large asteroids and returning materials back to the space factory -- like a colony of ants, or swarm of bees, going to and from their assigned objective. As part of my movie, I would show some of the cargo carrying spacecraft traveling to Jupiter to collect and freeze helium 3, while others travel to and from water containing asteroids.

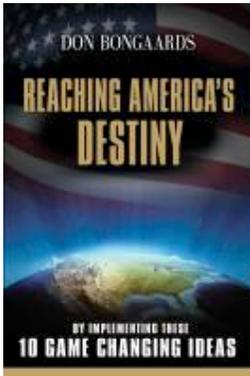
At the back end of the space factory I would illustrate how a huge satellite/spacecraft could be constructed. As part of the subassembly process, I would show how we could construct the 800 foot diameter by 100 feet high living quarters. After welding a steel frame, with a honeycomb surface, residual asteroid material "regolith" and water would be used to make a form of concrete that could be pumped into the honeycomb voids. Although the 800 foot diameter by 100 foot high living quarters may seem huge by human standards, they would look -- in the movie -- like tiny specs while being used to construct the gigantic 16 mile diameter by 48 mile long satellite/spacecraft. By relentlessly assembling the living quarters, the desired object would eventually take shape.

Using today's special effects cinematography I believe that what I've just described could be shown in a way that would result in most viewers believing that what I am proposing is not so farfetched. The technology is not too difficult for most observers to understand and accept. As they say -- a picture -- and in this case a movie -- would be worth more than a thousand words.

As previously mentioned, one purpose in telling the fictional Epsilon Eridani story was to show that overpopulation of planet Earth need not be a problem. With the potential for housing 30 trillion people in luxurious living conditions in space, I don't think we need to worry. However, we do need to worry about the short-sightedness of career politicians who can't see beyond the next election, and who don't take appropriate actions when needed. Another, and more profound, purpose for telling this story is to show how people in the future could develop a common belief in God, and how "Reaching America's Destiny" plays an important part in this process.

With the entire Earth population living on satellite/spacecraft, and having the ability to communicate and debate the big issues -- like the origin of life, religious beliefs, and human purpose, a commonly believed truth -- is likely to prevail. This is not what we see happening today. With political correctness, media bias, corrupted

entertainment, atheism, secular morality, multiple religious beliefs, cultural differences, language problems, and a majority of Earth's people struggling to survive -- we currently have chaos. As a result, communication, debate, and logic generally falls on deaf ears, or in the case of third World people -- on no ears at all.



Author Don Bongaards believes America was founded on a series of miracles, and has a destiny that needs to be fulfilled. His 10 game changing ideas are part of a 50 year plan that not only gets America back on track, it also makes America more prosperous and influential than it has ever been. From this new position of strength, it can lead the world's poor and destitute people to a prosperous and fulfilling future.

Reaching America's Destiny

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