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First let me explain who the panel members are. Frank Salisbury is director of the plant

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science department at the State University of Utah. A noted biologist, he developed an

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00:00:16,120 --> 00:00:24,120

early interest in the possibility of extraterrestrial life by working for his PhD at Caltech.

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I first encountered the name Frank Salisbury when I read a paper on the possibilities of

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00:00:30,440 --> 00:00:38,600

life on Mars which appeared in Science Magazine in 1962. He was the author. I've been aware

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00:00:38,600 --> 00:00:46,480

of Frank Salisbury for the past 15 years. During the mid 1960s a remarkable series of

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00:00:46,480 --> 00:00:51,560

UFO sightings occurred in the Uinta, I guess the hope I'm pronouncing is right, Basin of

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00:00:51,560 --> 00:00:58,200

Utah. Dr. Salisbury spent several years investigating the numerous sightings and authored the important

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00:00:58,200 --> 00:01:07,960

study, the Utah UFO Displays which was published in 1974. Nearly all of you know Jim and Coral

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00:01:07,960 --> 00:01:15,680

Lorenzen. They had the oldest UFO research group in the world, the aerial phenomena research

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00:01:15,680 --> 00:01:23,320

organization, APRO, headquarters in Tucson, Arizona. They are two of the most respected

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00:01:23,320 --> 00:01:31,640

figures in ufology. Their credentials were, have been read here before but Jim was a member

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00:01:31,640 --> 00:01:38,880

of the Kippack National Observatory in Tucson where he was senior technical associate. He

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00:01:38,880 --> 00:01:44,560

designed computer interface for remote control telescope and instrumentation for rocket

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00:01:44,560 --> 00:01:54,840

elevated astronomical experiments. Coral has been editor of the APRO magazine which many

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00:01:54,840 --> 00:02:03,800

of you read. She has devoted her basic energies to the organization. Ted Bozier is a pioneering

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00:02:03,800 --> 00:02:11,160

UFO researcher. He helped found civilian saucer intelligence in New York which is one of the

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00:02:11,200 --> 00:02:20,000

first responsible UFO research groups in 1954. So he's been around quite a while too. He's been an

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00:02:20,000 --> 00:02:27,360

active figure in ufology for the past 25 years and is author of the monumental report, the UFO

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00:02:27,360 --> 00:02:35,720

wave of 1947. He's co-authored and edited a number of important works including U.S. Air Force

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00:02:36,200 --> 00:02:45,200

Projects, Rudge and Blue Book reports 1951 to 1953. He currently works for the center of UFO

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00:02:45,200 --> 00:02:54,680

studies and is compiling Humcat, the computer catalog of 1500 UFO occupant reports. I'm going to

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00:02:54,680 --> 00:03:05,680

kick this off with a viewpoint which has been pretty much constantly editors of Fade magazine

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00:03:06,040 --> 00:03:15,240

since it was founded 29 years ago. And maybe the most unpopular viewpoint here but I'm leading

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00:03:15,240 --> 00:03:20,920

off first so that you or anyone else can take some potshots I think if you want later on. We

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00:03:20,920 --> 00:03:28,560

have our open forum. On Fade magazine we have covered many of the well-known UFO contact

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00:03:28,720 --> 00:03:37,720

events but we have always felt extremely uneasy and wary of them particularly those claims

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00:03:37,720 --> 00:03:46,560

involving humans or human items. In most cases especially in the early days if the claim involved

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00:03:46,560 --> 00:03:55,680

a purported human-like entity we did not report it at any length or we ignored it altogether. In
view

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00:03:55,680 --> 00:04:03,360

of the fact that Fade has become an historical record available on microfilm and in many libraries

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00:04:03,360 --> 00:04:12,360

I rather regret this now but I do remain skeptical of all humanoid claims. I want to make clear
that I

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00:04:12,360 --> 00:04:19,600

am not critical of the reports of human oids per se but I feel they must be subjected to other

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00:04:19,680 --> 00:04:27,680

interpretations than that human-like creatures visit us from somewhere else. Obviously I cannot

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00:04:27,680 --> 00:04:35,480

advance convincing proof for a negative viewpoint therefore I have to fall back on what I admit

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00:04:35,480 --> 00:04:43,560

might be termed common sense mixed with a bit of prejudice. My main argument is as follows. First

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00:04:44,480 --> 00:04:51,640

that the very diversity of life on earth is so enormously complex that the chances of a

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00:04:51,640 --> 00:05:00,080

superior population in any way resembling humans coming from somewhere else at this precise moment

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00:05:00,080 --> 00:05:09,640

in time seems less likely than beating the slots at Las Vegas. I am not arguing against the extraterrestrial

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00:05:09,720 --> 00:05:18,440

theory of UFOs although I believe that is only one of a number of arguable hypotheses but I am

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00:05:18,440 --> 00:05:26,400

saying that if extraterrestrial life exists it cannot be humanoid. My second argument centers on

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00:05:26,400 --> 00:05:34,160

the evolutionary development of life on earth which had to adapt to our planet's unique environment

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00:05:34,200 --> 00:05:42,320

and history. Even given their infinity can one imagine exact parallels of environment, history,

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00:05:42,320 --> 00:05:51,200

chance and time occurring on another planet. Can they? I don't think so. Thirdly I want to examine

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00:05:51,200 --> 00:05:58,800

the evolution of our immune system which keep us alive but which in my view could not have

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00:05:58,840 --> 00:06:06,080

developed similarly in any space visitor. Our greatest enemies on this earth are the billions

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00:06:06,080 --> 00:06:13,680

upon billions of microscopic creatures and plants hell bent to destroy us and posing an even greater

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00:06:13,680 --> 00:06:21,800

threat to unwary extraterrestrials. And fourth I want to discuss briefly that part of man's psyche

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00:06:22,160 --> 00:06:30,080

which insists on seeing life elsewhere as merely another version of our own life on earth. It is

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00:06:30,080 --> 00:06:36,160

part of our psychological outlook to imagine life elsewhere as not being too different from life

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00:06:36,160 --> 00:06:44,040

here. First let's step outside ourselves and look at life here. Consider its diversity birds,

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00:06:44,400 --> 00:06:53,440

fish, plants, octopi, tardigrades, bacteria, viruses if you can call viruses life, fungi,

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00:06:53,440 --> 00:07:02,320

insects, coral, crustaceans, the whole mammalian kingdom from tiny shrews to the giant cetaceans

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00:07:02,320 --> 00:07:10,560

to elephants to man himself. If we assume earth to be four billion years old and it may be twice

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00:07:10,680 --> 00:07:18,240

that age, man has been around in recognizable form for less than one thousandth of that span of

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00:07:18,240 --> 00:07:26,120

time and has been able to write for little more than one millionth of that total. A way to look at

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00:07:26,120 --> 00:07:33,640

the problem of timing is dramatized by Carl Sagan in his book *The Dragons of Eden*, speculation on

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00:07:33,920 --> 00:07:41,440

the evolution of human intelligence. Sagan says let's assume that the age of the earth is a single

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00:07:41,440 --> 00:07:50,320

year beginning on January 1st then life began on earth about nine months later life began nine

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00:07:50,320 --> 00:07:58,240

months later or almost ten months later around September 25th. The human species however in

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00:07:58,440 --> 00:08:07,240

this imaginary year did not make its appearance until around 10 30 p.m. on December 31st only an

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00:08:07,240 --> 00:08:16,360

hour and a half ago and recorded human history as existed only for the last 10 seconds of this

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00:08:16,360 --> 00:08:26,040

imaginary cosmic year. The extraterrestrial humanoid hypothesis asks us to believe that in this tiny

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00:08:26,240 --> 00:08:34,240

window of time a mere spark in the black of this is of all the time that has been our humanoid

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00:08:34,240 --> 00:08:41,800

brothers from somewhere else have somehow found us and made contact. This would be a mighty coincidence

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00:08:41,800 --> 00:08:48,440

indeed. Next I want to explore in somewhat more detail what we know of the origins of life on

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00:08:48,440 --> 00:08:55,840

earth out of which has grown the fantastic diversity of our terrestrial life. In very simple

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00:08:55,840 --> 00:09:03,120

terms as far as we are able to trace life on earth the earliest forms were blue green algae and

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00:09:03,120 --> 00:09:12,840

bacteria. Once life began here it barely changed in its first two billion years. This has been

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00:09:12,840 --> 00:09:21,520

termed the age of blue green algae. For the first two years to five six of life's history these

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00:09:21,520 --> 00:09:28,320

are unity cells alone inhabit in the earth. The reason for this is that these primitive cells

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00:09:28,320 --> 00:09:35,040

have white but they do not have nuclei. They reproduce by budding and fission and that's

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00:09:35,120 --> 00:09:43,560

about all. They did not change. They did not evolve. I don't want to go into the detail on this but

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00:09:43,560 --> 00:09:52,120

apparently about 600 million years ago an unlikely accident happened. We still don't know how.
Cells

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00:09:52,120 --> 00:10:00,040

with the nuclei developed and this resulted in the creation of sex. It is the biological function

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00:10:00,040 --> 00:10:08,840

of sex to promote variability by mixing the genes of two or more individuals. Sex cells have

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00:10:08,840 --> 00:10:16,480

half the chromosomes of normal body cells and when two sex cells join they produce a new individual.

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00:10:16,480 --> 00:10:24,120

The original amount of genetic material is restored. For two billion years as Stephen Jay

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00:10:24,160 --> 00:10:34,760

Boole points out, algal mats remained algal mats but the cells with nuclei made sex a reality and

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00:10:34,760 --> 00:10:45,320

less than a billion years later here we are people cockroaches, seahorses, petunias and crows. This is

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00:10:45,320 --> 00:10:53,760

extremely unlikely it seems to me that an exactly similar development could have occurred anywhere

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00:10:53,800 --> 00:11:01,440

else. One can assume that by statistical chance alone there must be life out there. After all we

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00:11:01,440 --> 00:11:09,000

are looking at a billion billion of signs. That life is likely to be older or it's likely to be newer

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00:11:09,000 --> 00:11:15,840

than life is here on earth. But my main point is that although the forms that life takes may be

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00:11:15,840 --> 00:11:23,120

infinite the chances of evolution anywhere else duplicating the exact sequence which occurred

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00:11:23,160 --> 00:11:30,200

here on earth are infinitesimal. It might be argued that once established life elsewhere would be

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00:11:30,200 --> 00:11:36,360

bound to follow the same sequence that follows here. But again I want to quote Boole who says that

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00:11:36,360 --> 00:11:44,040

quotes ontological records support no such interpretation. There has been no steady progress in

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00:11:44,040 --> 00:11:51,960

the higher development of organic design. We have had instead vast stretches of little or no change

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00:11:52,160 --> 00:11:59,360

and one evolutionary burst that created the entire system. That evolutionary burst is called the

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00:11:59,360 --> 00:12:06,720

Cambrian explosion. And that fairly brief period after the development of cells with nuclei,

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00:12:06,720 --> 00:12:14,400

earth life in nearly all of its basic forms evolved. That life filled our biosphere, air,

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00:12:14,400 --> 00:12:21,760

land and water. The entire system of complex life on earth arose during about 10% of its

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00:12:21,800 --> 00:12:29,400

history surrounding this Cambrian explosion of some 600 million years ago. Identical life were

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00:12:29,400 --> 00:12:35,920

to develop here. We would have to assume on these other worlds an identical physical environment

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00:12:35,920 --> 00:12:43,640

developing along an identical path on an identical time frame with that of earth. Footed in that,

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00:12:43,640 --> 00:12:50,280

in the critical physical criteria which would have to be identical would be existence of a large

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00:12:50,480 --> 00:12:57,240

moon for example. Existence of a similar sized sun with similar composition emitting similar

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00:12:57,240 --> 00:13:03,720

rays at an equivalent distance. There would have to be similar atmospheric composition,

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00:13:03,720 --> 00:13:12,000

similar amounts of water, similar gravity, similar magnetic fields which may depend on the dynamic

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00:13:12,000 --> 00:13:18,640

influence of our moon and so on. Even when one looks at near infinity this is a great deal to

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00:13:18,680 --> 00:13:26,720

expect. This leads to my third major argument that we are incredibly well adapted to earth's

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00:13:26,720 --> 00:13:34,160

stable environment, to its gravity, to the high oxygen content of its atmosphere, to its water

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00:13:34,160 --> 00:13:41,960

and water vapor, to its rather stable temperatures, radiations and other physical conditions which

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00:13:41,960 --> 00:13:48,520

we seldom consider exceptional because we are so used to them. But let's assume that creatures

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00:13:48,560 --> 00:13:54,720

from somewhere else were to appear on earth. Let's also assume that they developed in a

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00:13:54,720 --> 00:14:01,320

physical environment identical with our own. They would then face the problem of our disease.

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00:14:01,320 --> 00:14:09,240

H. G. Wells was not speculating highly when he pictures the Martian invaders of a hava,

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00:14:09,240 --> 00:14:16,840

peaceful countryside, succumbing to an unknown disease. One is mindful of the following dog

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00:14:16,920 --> 00:14:25,000

role that deliciously depicts our own situation. Perhaps you've heard it. Big fleas have little

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00:14:25,000 --> 00:14:34,320

fleas upon their backs to bite them and little fleas have other fleas and so odd, infinite,

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00:14:34,320 --> 00:14:42,400

cultural. There are more living creatures on every one of you than there are people on earth.

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00:14:43,400 --> 00:14:51,400

There are millions of bacteria, fungi and viruses impacting each of you constantly with one

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00:14:51,400 --> 00:14:59,720

simple and deadly purpose to kill you. You survive because of your complex immune system that has

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00:14:59,720 --> 00:15:06,520

been in parallel evolutionary development with humankind for hundreds of millions of years.

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00:15:07,520 --> 00:15:15,800

Immunologists confirm that man's greatest enemies are these countless billions of microscopic and

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00:15:15,800 --> 00:15:23,520

submicroscopic creatures engaged in a constant effort to destroy us. Once the chemistry of

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00:15:23,520 --> 00:15:34,120

life developed, the various species of cells went to war with each other. And over these hundreds

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00:15:34,160 --> 00:15:44,800

of millions of years, the best fit is survived and attacked. And the ones that failed, their

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00:15:44,800 --> 00:15:51,280

remains can be found sometimes in a few fossils. The concentrations of the various salts in our

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00:15:51,280 --> 00:15:58,800

bloodstreams, for example, is the same as it was when our cells learned to live in the seas
hundreds

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00:15:58,840 --> 00:16:06,000

of millions of years ago. Could visitors from somewhere else have experienced this identical

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00:16:06,000 --> 00:16:15,600

environment? It is said that a bacterium entering a cut in your finger can reach your brain in four

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00:16:15,600 --> 00:16:23,480

seconds. In 24 hours, it can number billions. But over these same hundreds of millions of years

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00:16:23,560 --> 00:16:29,840

that we have been developing, man has developed, for example, the white cells, the granular

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00:16:29,840 --> 00:16:39,120

sites, which eat or poison these bodily invaders. There are the macrophages patrolling our bloodstreams

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00:16:39,120 --> 00:16:46,880

and carrying on their war against these lethal invaders. As I stand here, I have 150 billion

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00:16:47,080 --> 00:16:55,320

granular sites and macrophages available for combat. And I need them for these bacteria are always

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00:16:55,320 --> 00:17:02,840

trying to kill me. As a second part of our defense system, we have the antibodies able to recognize

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00:17:02,840 --> 00:17:10,560

anything foreign to couple with the antigens, neutralize poisons, kill the microbes. The third

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00:17:10,600 --> 00:17:17,160

part of our great system is a group of proteins called compliments manufactured in our liver.

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00:17:17,160 --> 00:17:25,280

These nine, the nine known compliment components can literally explode through a hostile bacterial

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00:17:25,280 --> 00:17:31,680

cell wall. And finally, we have the lymphocytes, which travel through our blood vessels in the

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00:17:31,680 --> 00:17:38,160

lymphatic system, or wander through the tissues themselves. Besides being killers of bacteria,

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00:17:38,880 --> 00:17:45,600

they carry messages to alert the body factories to turn out more protective chemicals or proteins

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00:17:45,600 --> 00:17:53,760

if they are needed to battle invaders. What are the chances of a space visitor when equipped to

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00:17:53,760 --> 00:18:02,160

handle these multitudes of deadly bacteria waiting literally to eat him up? Hundreds of millions

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00:18:02,160 --> 00:18:08,640

of years of evolution, hundreds of millions of deaths, millions of lethal experiments were

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00:18:08,640 --> 00:18:17,640

necessary before man or any earth animal develop highly sophisticated and complex armament, which I

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00:18:17,640 --> 00:18:25,040

have described here, and which is necessary to keep us alive. Seems unlikely to me that any space

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00:18:25,120 --> 00:18:32,680

visitor exposed to this hostile environment could survive for 24 hours. We are enormously

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00:18:32,680 --> 00:18:41,120

specialized in terms of evolutionary development. In terms of space, we live in a micro environment

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00:18:41,120 --> 00:18:47,240

where the very smallest change in the gross scale of interstellar distances, space, time,

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00:18:47,400 --> 00:18:55,640

and temperatures would destroy us. If this is true of us, is it wrong to believe it also would

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00:18:55,640 --> 00:19:03,640

be true of visitors? And if it is not true of them, then we have to assume that they are not

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00:19:03,640 --> 00:19:11,080

humanoid. As a final part of this discussion, I want to ask why we tend to regard visitors as

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00:19:11,080 --> 00:19:18,920

humanoid. After I had selected this topic and written two drafts of the foregoing discussion,

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00:19:19,640 --> 00:19:26,120

I was both heartened and dismayed to note that the lead paper in the June 10 issue of Science,

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00:19:26,760 --> 00:19:33,000

Journal of the American Association for the Advancement of Science, covered much the same ground

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00:19:33,480 --> 00:19:41,400

and arrived at much the same conclusion. Francois Jacob, professor of cell genetics at the Pasteur

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00:19:41,400 --> 00:19:49,800

Institute in Paris, France wrote, when looking at present-day science fiction books, one is struck

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00:19:49,800 --> 00:19:57,400

by the same phenomenon. The abominable animals that hunt the poor astronaut lost on a distant

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00:19:57,480 --> 00:20:05,080

planet are products of recombinations between the organisms living on Earth. The creatures coming

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00:20:05,080 --> 00:20:12,200

from outer space to explore the Earth are depicted in the likeness of man. You can watch them emerging

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00:20:12,200 --> 00:20:19,560

from their unidentified flying objects. They are vertebrates, mammals without any doubt, walking

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00:20:19,560 --> 00:20:26,360

erect. The only variation concerned body size and number of eyes. Generally, these creatures have

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00:20:26,360 --> 00:20:32,120

larger skulls than humans to suggest bigger brains and sometimes learn to radio and tie

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00:20:32,920 --> 00:20:38,440

on the head to suggest very sophisticated sense organs. The surprising point here again

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00:20:39,080 --> 00:20:46,280

is what is considered possible. It is the idea, more than a hundred years after Darwin, that if

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00:20:46,280 --> 00:20:53,240

life occurs anywhere, it is bound to produce animals not too different from terrestrial ones

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00:20:53,240 --> 00:21:02,840

and above all to evolve something like man. Jacob believes that we humans create humanoids because

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00:21:02,840 --> 00:21:09,320

we have to put order in the universe. We have to develop a unified and coherent view of the world

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00:21:09,320 --> 00:21:16,600

and of the forces that run it. In my own view, even though we are surrounded by incredibly

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00:21:16,600 --> 00:21:23,560

different life forms, we are simply unable to imagine anything much different from what we

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00:21:23,560 --> 00:21:30,920

are familiar with. We combine bits and pieces, but all these bits and pieces are familiar.

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00:21:32,520 --> 00:21:40,040

We simply cannot imagine things that are totally unfamiliar any more than we could have understood

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00:21:40,040 --> 00:21:46,600

before the development of liquid-fueled rockets, that there could be such a creature on Earth

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00:21:46,600 --> 00:21:54,440

as the bombardier beetle mixing spontaneously combustible fluids in an explosive chamber

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00:21:54,440 --> 00:22:00,520

located in its abdomen. But the bombardier beetle doesn't exist. That's another story.

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00:22:01,080 --> 00:22:06,680

At any rate, at the conclusion of a much more complex argument than I have entered to offer here,

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00:22:07,400 --> 00:22:16,920

Francois Jacob says, the probability is practically zero that living systems, which might well exist

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00:22:16,920 --> 00:22:24,520

elsewhere in the cosmos, would have evolved into something like human beings, even if life and

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00:22:24,520 --> 00:22:31,800

outer space uses the same material as on Earth, even if the environment is not too different from ours,

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00:22:32,520 --> 00:22:38,520

even if the nature of life and its chemistry strongly limits the way to fulfill certain

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00:22:38,520 --> 00:22:46,600

functions, the sequence of historical opportunities there could not be the same as here. A different

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00:22:46,600 --> 00:22:54,440

play has to be performed by different actors. Despite science fiction, Martians cannot look

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00:22:54,440 --> 00:23:03,240

like us, and if they cannot, then obviously we have to take a fresh new look at a multitude of UFO

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00:23:03,240 --> 00:23:16,840

claims. Dr. Frank Salisbury will be next time. Mr. Fuller has done an absolutely superb job of

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00:23:16,840 --> 00:23:24,680

stating the establishment approach to this question, and I would like to respond to it a bit.

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00:23:25,480 --> 00:23:31,560

I don't know exactly what approach to take because the one that I had written down here is pretty

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00:23:31,560 --> 00:23:38,760

much what he said, a lot of it. I think it's important to note that there is a bit of an

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00:23:38,760 --> 00:23:45,080

alternative that's been suggested in the scientific literature. Robert Beery published an article

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00:23:45,080 --> 00:23:52,440

many years ago in which he talked about the adaptive nature of the human form. It makes sense,

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00:23:52,440 --> 00:24:00,280

I suppose, to have the brain up off the ground, to have stereo vision, to have some kind of arms that

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00:24:00,280 --> 00:24:05,080

you can manipulate, hands that you can manipulate with that you don't depend upon for walking.

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00:24:06,200 --> 00:24:12,840

Many of the features of the human form, it can be argued, are adaptive and there's selective value

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00:24:13,480 --> 00:24:21,320

for those features, and therefore it's conceivable that, given the kind of random evolutionary

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00:24:21,320 --> 00:24:30,840

processes that have gone on, that the general features of the human form might be a result.

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00:24:31,960 --> 00:24:37,960

That can be argued. It's an unpopular scientific idea in establishment biology,

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00:24:37,960 --> 00:24:43,960

but it's an idea that can be presented. I think there are some even more unpopular ideas that

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00:24:43,960 --> 00:24:50,920

need to be thought about. Before I get to them, though, I'd like to continue the biology lesson

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00:24:50,920 --> 00:24:59,400

that we've had this morning. In the last 30 years, perhaps, we have discovered a fantastic amount

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00:24:59,400 --> 00:25:07,640

of information about what life is, how it functions, the actual nature of life. Most of the

evolutionary

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00:25:07,720 --> 00:25:17,640

theories, incidentally, were formulated before that. Around the 1920s, early 1930s, the geneticists

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00:25:18,600 --> 00:25:26,360

and the evolutionists finally got together by applying mathematics, namely population genetics,

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00:25:26,360 --> 00:25:34,280

to modify Darwin's theory, introduce the concept of mutations, produce what's referred to as the

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00:25:35,240 --> 00:25:42,520

modern synthetic theory of evolution, or the neo-Darwinian theory, which says that, as Darwin said,

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00:25:43,240 --> 00:25:50,600

features that are well adapted tend to survive because of the overproduction of young, which

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00:25:50,600 --> 00:25:58,040

leads to a struggle for existence and a survival of the fittest. That there's variety within organisms,

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00:25:58,840 --> 00:26:08,040

and this variety can be selected so that the parts of that variety that best enable an organism to

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00:26:08,040 --> 00:26:13,720

reproduce its kind will tend to survive and the other will be eliminated. This was Darwin's theory,

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00:26:13,720 --> 00:26:21,000

but what was added to it was the concept that the variety comes from genetic recombination,

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00:26:21,000 --> 00:26:26,440

which Darwin didn't know about, and mutations, which Darwin definitely didn't know about.

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00:26:27,160 --> 00:26:30,680

That's kind of the modern synthetic theory, and it'd take a couple of hours to

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00:26:31,400 --> 00:26:37,400

do it justice. I'm hoping that you have some concept already. Since then, we have learned

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00:26:37,400 --> 00:26:45,080

of the fantastic complexity of living things. It's absolutely spectacular, and it saddens my

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00:26:45,080 --> 00:26:52,920

heart that the public, in general, remains sort of unaware of these things, only aware at a level

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00:26:52,920 --> 00:26:59,320

that doesn't really allow proper appreciation. We've had some artistic achievements, we've had some

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00:26:59,320 --> 00:27:05,400

technological achievements, and these are appreciated a bit by the public, but we've had these

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00:27:05,400 --> 00:27:11,480

fantastic insights into the nature of life, and the reason they're not appreciated is that they

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00:27:11,480 --> 00:27:15,720

require some background. You've got to learn about atoms and molecules and such things.

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00:27:16,840 --> 00:27:20,920

Not many people in the public are willing to make the effort, I guess.

212

00:27:21,800 --> 00:27:26,680

Basically, we have learned that the basic unit of a living organism is the cell.

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00:27:27,640 --> 00:27:35,320

We've known that for 300 years. For the last 100 years about, we began to get some insight into the

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00:27:35,320 --> 00:27:41,400

complex chemistry that was going on within those cells. During the last 30 years,

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00:27:41,400 --> 00:27:49,320

I've finally really got close to it. We've understood the molecular structure of the enzymes.

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00:27:50,280 --> 00:27:54,600

When I begin a biology class at Utah State University, where, incidentally, I'm not

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00:27:54,600 --> 00:27:59,160

head of the Plant Science Department, I wish that I'd get, I keep forgetting to deny it,

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00:28:00,920 --> 00:28:06,520

but it embarrasses me because I resigned as head of the department in 1970, a whole seven years ago,

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00:28:06,520 --> 00:28:12,200

but it hangs on in some of these sources of biographical information. I'm a professor of

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00:28:12,200 --> 00:28:17,080

plant physiology there and not head of the department. Boy, how to get sidetracked.

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00:28:18,040 --> 00:28:24,920

Anyway, I start to teach a class and the students that come to the university have all had a course

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00:28:24,920 --> 00:28:31,080

in high school biology, practically all of them, and so it's interesting to me to ask them,

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00:28:31,080 --> 00:28:36,200

what's the most important thing in biology that you could learn? What's the nature of life?

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00:28:36,200 --> 00:28:41,640

What is the really central concept of biology? And they never know because they don't teach

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00:28:41,640 --> 00:28:45,720

them that in high school classes for some silly reason that I've been unable to figure out.

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00:28:45,720 --> 00:28:50,360

Mostly, I think, because even high school biology teachers don't like to learn about molecules.

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00:28:51,160 --> 00:28:58,520

The central fact is that the metabolism, the chemistry of cells is controlled by enzymes.

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00:28:59,480 --> 00:29:06,040

Enzymes are protein molecules. No enzyme is known that's not a protein. Proteins are known

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00:29:06,040 --> 00:29:12,200

that aren't enzymes like your hair and your fingernails and skin and so on, but no enzyme is

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00:29:12,200 --> 00:29:21,080

known that is not a protein molecule. In the last 15 years, learned about the structure of these

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00:29:21,080 --> 00:29:27,880

protein molecules that are enzymes, we know of the structures of a couple of dozen of them, perhaps.

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00:29:28,520 --> 00:29:36,520

It's a tremendous effort to find this out, but we can understand that the protein molecule that's

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00:29:36,520 --> 00:29:43,080

an enzyme is a machine, that it does the kinds of things that Curtis was talking about,

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00:29:43,880 --> 00:29:49,560

produces compounds, etc. The main thing that it does is interact with the substrate by having

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00:29:49,560 --> 00:29:57,240

the substrate sit down on its surface, and the exact structure of that surface matches the

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00:29:57,240 --> 00:30:05,320

structure of the substrate so that the two fit like a lock and a key, key and a lock, and this

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00:30:05,320 --> 00:30:10,680

allows the reaction to take place. The enzyme maybe bends a little, puts a little tension on

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00:30:10,680 --> 00:30:16,200

part of the substrate molecule so that the substrate molecule breaks apart, or maybe it pushes two

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00:30:16,200 --> 00:30:22,920

substrate molecules together in a way that they can react faster. The reactions are all

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00:30:22,920 --> 00:30:28,280

thermodynamically possible, it turns out, but what the enzyme does is make them happen much faster,

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00:30:28,920 --> 00:30:35,800

and that's the fundamental nature of life. Well, the complexity of these enzyme molecules is

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00:30:35,800 --> 00:30:43,640

really something to comprehend. How can you account for the production of this complexity

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00:30:43,640 --> 00:30:49,080

by the modern synthetic theory of evolution, I have been asking myself for the last several years.

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00:30:50,200 --> 00:30:53,320

I want to tell you one little story, and it has two conclusions.

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00:30:53,560 --> 00:31:02,600

Let's think of writing a sentence from Shakespeare. This is very comparable to putting together

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00:31:02,600 --> 00:31:09,080

the amino acids in a chain to make an enzyme function. A sentence that I thought about and

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00:31:09,080 --> 00:31:13,640

worked with was, this above all, to the known self be true. I think I can remember enough of the

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00:31:13,640 --> 00:31:20,520

figures to tell you this story. It has about 45 characters, I believe, and in the alphabet that

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00:31:20,520 --> 00:31:27,400

I used, I let there be 30 letters, namely the letters of the English alphabet plus a space between

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00:31:27,400 --> 00:31:33,640

words plus some punctuation so that we can punctuate the sentence. How are you going to write this

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00:31:33,640 --> 00:31:38,840

sentence by some kind of chance process? You can let monkeys pound away at typewriters,

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00:31:38,840 --> 00:31:43,880

or you can blow up a print shop and look for the type in the street. The best way to do it, I suppose,

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00:31:43,880 --> 00:31:49,720

is to let a computer rearrange letters in a sentence. A computer will rearrange letters in

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00:31:49,720 --> 00:31:56,120

a sentence and compare the sentences that are produced with the sentence that we're going to write.

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00:31:57,240 --> 00:32:04,120

I mentally build a little computer, one liter in volume, and I let it rearrange letters in the

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00:32:04,120 --> 00:32:10,920

sentence a trillion times per second. I turned it on and I could see I wasn't getting anywhere.

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00:32:10,920 --> 00:32:15,560

I wasn't going to be able to write the sentence very quickly that way, so I made enough computers of

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00:32:15,560 --> 00:32:21,960

that size and volume to cover the whole earth to a depth of about 1.6 miles, two kilometers.

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00:32:23,160 --> 00:32:27,080

I programmed each computer so that each one would write the sentence differently.

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00:32:27,080 --> 00:32:33,640

I still wasn't getting there. So I covered all the planets in the universe with computers,

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00:32:33,640 --> 00:32:40,200

about 10 to the 20th planets, one and 20 zeros worth of planets, two kilometers deep with my

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00:32:40,200 --> 00:32:46,760

computers, no two computers writing the same sentence ever. I turned them on at time zero and

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00:32:46,760 --> 00:32:52,280

I let them run for four and a half billion years, about the age of the earth, each one writing a

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00:32:52,280 --> 00:32:57,960

trillion sentences per second. Well, I got the job done finally. Once somewhere in the universe,

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00:32:57,960 --> 00:33:03,480

during that time, I wrote this above all to the known self be true. Could be done, you see.

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00:33:03,640 --> 00:33:12,680

You can consider that a human cell contains 23 sets of chromosomes, that each chromosome

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00:33:13,560 --> 00:33:20,200

has perhaps several thousand genes, and that each gene controls the production of one enzyme.

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00:33:21,080 --> 00:33:28,120

Now, to make any one of those genes by a chance process, you're facing the odds that I just indicated

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00:33:28,120 --> 00:33:33,080

in my little computer study. And if you want to know how many sentences with 40 letters,

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00:33:33,160 --> 00:33:39,240

you can write all you have to do is multiply 30 by itself 40 times. I mean, for each letter,

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00:33:39,240 --> 00:33:43,800

you can combine it with all the other letters. Each time you add a letter, you multiply by 30.

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00:33:43,800 --> 00:33:51,720

So multiply 30 times 30 times 30, 40 times, and you begin to, well, you get the exact figure of

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00:33:51,720 --> 00:33:57,560

how many sentences you can write with 40 letters in them using a 30-letter alphabet.

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00:33:58,520 --> 00:34:03,000

And those are the kind of things that biologists know about a bit. They're the kind of things that

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00:34:03,960 --> 00:34:13,320

Kurt was talking about. And they lead biologists like Lauren Easley. I went back a ways. He wrote

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00:34:13,320 --> 00:34:21,400

his book, *The Immense Journey*, in 1957, a beautiful, poetical book about biology. He's an anthropologist.

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00:34:22,040 --> 00:34:26,840

He has a chapter in there entitled, *Flying Saucers and Little Men*, or something like that.

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00:34:27,880 --> 00:34:33,880

And a conclusion is that life, even cellular life, may exist out yonder in the dark, but higher

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00:34:33,880 --> 00:34:39,720

low in nature will not wear the shape of a man. Nowhere in all space on a thousand worlds will

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00:34:39,720 --> 00:34:46,760

there be men to share our loneliness. George Gaylord Simpson wrote an article in *Science* in 1964 in

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00:34:46,760 --> 00:34:53,720

which he used the same kind of an argument to arrive at the same conclusion. I think that

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00:34:53,720 --> 00:34:59,960

there's no question that from the standpoint of establishment biology, there are no humans

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00:35:01,080 --> 00:35:07,080

anywhere but on earth. Now, whether or not they might be humanoid in the sense that it makes some

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00:35:07,080 --> 00:35:12,600

sense, there would be selective value in having your senses up off the ground, having stereo

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00:35:12,600 --> 00:35:18,200

vision, having arms that you don't walk on with opposable fingers and thumbs that you can manipulate

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00:35:18,760 --> 00:35:25,640

instruments when you build your spaceship, etc. That could maybe be argued, but it's inconceivable,

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00:35:25,640 --> 00:35:32,680

absolutely, beyond any kind of establishment biological understanding of things to imagine

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00:35:32,680 --> 00:35:39,880

that you could get humans with which you could reproduce, interact biologically in that way.

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00:35:40,680 --> 00:35:44,440

That's the one side of the argument. I think there are some alternatives.

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00:35:45,000 --> 00:35:53,560

To begin with, we wouldn't be surprised if beings on other worlds were made up of the same basic

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00:35:53,560 --> 00:36:02,120

kinds of chemical molecules that we are, sugars, amino acids, nucleotides, fats, and so on.

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00:36:03,320 --> 00:36:09,320

And the reason that we say that is that when we try to duplicate the primeval conditions on earth,

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00:36:09,800 --> 00:36:15,960

as it's suspected they must have existed when we mix a reducing atmosphere of methane and

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00:36:15,960 --> 00:36:23,560

hydrogen and ammonia and carbon dioxide and so on in a flask and introduce an energy source like

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00:36:23,560 --> 00:36:28,600

electric sparks or ultraviolet light or just plain heat, growing little phosphate sometimes,

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00:36:29,320 --> 00:36:37,080

what happens is that we do get the basic molecules upon which life as we know it is based. We get

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00:36:38,040 --> 00:36:43,640

amino acids and protein, well, we get amino acids and nucleotides and sugars and fats and

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00:36:43,640 --> 00:36:48,840

those kind of things. And we can even get the amino acids to hook together to make proteins.

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00:36:49,480 --> 00:36:53,800

But there is where you run up against the statistical argument that I've been mentioning.

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00:36:54,440 --> 00:36:59,400

To get the amino acids to hook together in the same arrangements that would produce the kind

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00:36:59,400 --> 00:37:07,400

of life as we know it is absolutely fantastic. Very simple protein is insulin. It has, as I

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00:37:07,400 --> 00:37:13,400

remember, 63 amino acids. That would be about the same complexity. There are 20 kinds of amino

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00:37:13,400 --> 00:37:20,040

acids, so the alphabet is 20. That would be about the same complexity as writing this above all to

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00:37:20,040 --> 00:37:27,640

the known self be true, maybe a little bit more complex. What all this has led me to think is that

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00:37:28,200 --> 00:37:34,280

maybe the modern synthetic theory of evolution is not true. I think that we run up against some

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00:37:34,280 --> 00:37:41,560

real problems. If we're going to account for mankind, as we see mankind at this time, if we're

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00:37:41,560 --> 00:37:46,600

going to account for the, gee, I wish I had that list of things that Kurt mentioned, that's great,

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00:37:47,880 --> 00:37:56,280

yeast and tigers and violets and all those kind of things. If we're going to account for all those

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00:37:56,920 --> 00:38:02,280

different kinds of living things, I think we've got a real problem in terms of establishment

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00:38:02,280 --> 00:38:08,440

biology. I think establishment biology is going to have to re-establish a little bit and to get

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00:38:08,440 --> 00:38:15,880

some other ideas about how things work. In the meantime, there are a couple of alternatives.

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00:38:17,320 --> 00:38:25,480

If it turns out that when we look at UFO accounts, when we see the occupant accounts that

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00:38:25,480 --> 00:38:32,040

Ted Butcher talked about last night, when we look at the evidence of whether or not UFO occupants

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00:38:32,040 --> 00:38:39,560

may be humanoid and it seems to be overwhelming that they are, then we're entitled to wonder about

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00:38:39,560 --> 00:38:45,400

what's going on here. Titled to wonder whether the conclusions based upon establishment biology are

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00:38:45,400 --> 00:38:55,400

really all that valid. A couple of possibilities. One is that God was in charge. It says in Genesis

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00:38:55,400 --> 00:39:00,840

that man was created in God's image. That is that there was an intelligent creation,

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00:39:00,840 --> 00:39:07,000

engineering of life as we know it. That's the religious alternative, I guess. I like that

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00:39:07,000 --> 00:39:13,560

alternative, but for reasons that I can't argue in a scientific sense. Nonetheless, if that's one of

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00:39:13,560 --> 00:39:18,920

the alternatives, then it's conceivable that man was created in God's image on other planets.

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00:39:18,920 --> 00:39:27,880

That's the religious alternative. The science fiction type alternative is that life and man

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00:39:28,920 --> 00:39:35,320

were placed here by intelligent beings from other worlds. I think you can maybe see that

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00:39:36,040 --> 00:39:40,920

that's a closely analogous argument to the argument that God was in charge. It becomes a

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00:39:40,920 --> 00:39:47,400

matter of the definition of who's God and so on. I find that troubling and worthy of a great

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00:39:47,400 --> 00:39:53,240

deal of thought. But anyhow, it's conceivable that we're not all unrelated, that we didn't

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00:39:53,240 --> 00:39:59,400

evolve independently. I think it's absolutely clear that if the vilous boss and other such

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00:39:59,400 --> 00:40:07,160

instances have any validity, if there's the conceivable possibility that man could mate with

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00:40:07,160 --> 00:40:13,240

being from another world, then we didn't evolve independently. Establishment biology,

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00:40:13,240 --> 00:40:18,840

assuming independent evolution absolutely eliminates that possibility. There's no way to

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00:40:18,840 --> 00:40:25,160

consider it. The only way that you can have UFO occupants, not only humanoid but also human,

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00:40:25,800 --> 00:40:31,960

is to say that we had some kind of common origin, either in the mind of God or on some other planet

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00:40:31,960 --> 00:40:37,320

seated then throughout the universe, etc. That's the main thing that I would want to say.

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00:40:37,960 --> 00:40:43,560

Kurt mentioned the problem of contamination, bacteria. I think there's probably another

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00:40:43,560 --> 00:40:50,680

side to that problem too. The other side is that we don't yet really understand the interaction

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00:40:50,680 --> 00:40:57,640

between a host and its parasite. We don't really understand at this time what disease really is.

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00:40:58,680 --> 00:41:05,960

I was chairman of a committee to consider exobiology and what they ought to do with the

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00:41:06,040 --> 00:41:12,680

lunar receiving laboratory after the moon program was over. The lunar receiving laboratory was built

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00:41:12,680 --> 00:41:21,640

at the cost of about 18 million bucks, as I remember, at Houston in Texas. Just in case,

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00:41:21,640 --> 00:41:28,280

there might be organisms on the moon, nobody believed that there were. Science had no reason

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00:41:28,280 --> 00:41:35,000

to expect organisms on the moon, but the possibilities seemed so frightening that they

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00:41:35,000 --> 00:41:39,320

spent 18 million dollars to build this laboratory where the astronauts were brought after they got

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00:41:39,320 --> 00:41:45,720

back from the moon, spent two or three weeks in isolation, you'll remember, so that if something

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00:41:45,720 --> 00:41:51,640

began to develop in them, we wouldn't turn it loose on the earth at large. Actually, it could have

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00:41:51,640 --> 00:41:57,160

got loose several times when the thing landed in all. It was very scary as we looked back at all this.

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00:41:57,800 --> 00:42:01,560

There weren't any organisms on the moon that was just as everybody expected,

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00:42:02,280 --> 00:42:08,680

but it made us think about this possibility of contamination, disease organisms from another

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00:42:08,680 --> 00:42:17,160

world, or our disease organisms contaminating another world. And I guess the conclusion that I

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00:42:17,160 --> 00:42:23,080

arrived at after listening to many expert witnesses testify is that we don't know the answer to that

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00:42:23,080 --> 00:42:33,880

one either. Not only is there a very intricate defense mechanism against individual organisms

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00:42:33,880 --> 00:42:40,120

on earth, but apparently organisms that infect other organisms have something very specific

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00:42:40,120 --> 00:42:46,600

about them too. In plant pathology, the really amazing thing is that a given plant pathogen

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00:42:46,600 --> 00:42:56,760

only infects a very small number of hosts. There are about 300,000 different species of flowering

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00:42:56,760 --> 00:43:04,520

plants. Any given fungus that's a plant pathogen infects at most a half a dozen of those. Why

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00:43:04,520 --> 00:43:10,760

doesn't it infect all the rest? Either because all the rest have some kind of defense or because the

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00:43:11,320 --> 00:43:20,680

the disease organism does not have the ability to, it's not specifically matched to any host.

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00:43:20,680 --> 00:43:26,280

And if the second possibility is right, then the chances are good that a totally alien organism

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00:43:27,080 --> 00:43:31,720

would not be infected at all. I mean, it's an opposite kind of a conclusion to the

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00:43:31,720 --> 00:43:37,000

H.G. Wells War of the World's conclusion. And until we learn more about disease, we can't say for

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00:43:37,000 --> 00:43:45,240

positive. Either possibility seems to be likely at this time. Well, okay, biology maybe has something

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00:43:45,240 --> 00:43:56,840

to contribute to all this. I think that as far as I'm concerned, I'm happy to toy with the questions of

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00:43:57,800 --> 00:44:06,840

did God create man in his image on other planets? If so, what does it mean to all of us here?

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00:44:06,840 --> 00:44:13,320

Are they allowed to visit us? Are the visitations really something else than what we think they are?

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00:44:13,320 --> 00:44:18,840

Are they part of the the display that's being put on to mislead us, perhaps, or what?

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00:44:18,920 --> 00:44:23,480

Many, many things and I better sit down. Thanks.

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00:44:34,280 --> 00:44:41,640

My statement has to be very short and brief by necessity because I'm completely unqualified

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00:44:42,280 --> 00:44:48,520

to discuss the theoretical possibilities that are inherent in the discussion. I have no background

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00:44:48,520 --> 00:44:55,080

that permits me to speak with any kind of authority on it. I can make the point that what

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00:44:55,080 --> 00:45:00,760

essentially we're dealing with here or what I'm dealing with is a clutch of cases, 1500

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00:45:00,760 --> 00:45:08,200

approximately, in which we have reports stating that creatures coming from UFOs by and large

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00:45:08,840 --> 00:45:15,800

are reported overwhelmingly to be humanoid in appearance. And my concern has to be limited

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00:45:16,360 --> 00:45:22,600

to trying to account for that. And the theoretical discussion is beyond my own kin.

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00:45:23,640 --> 00:45:29,400

If it can be applied in terms of the actual data that we have on hand, perhaps I might be able to

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00:45:29,400 --> 00:45:38,280

contribute something of some sort of value to that. I don't know if intelligent creatures in outer space

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00:45:39,080 --> 00:45:45,400

can or cannot be humanoid. I personally don't know if this is really the issue at hand.

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00:45:45,400 --> 00:45:49,960

As far as I'm concerned, the issue at hand is how do we account for humanoid reports

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00:45:50,680 --> 00:45:59,560

in our own files? I think that this points out a very important factor of this whole UFO humanoid

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00:45:59,560 --> 00:46:07,880

problem. And it's the problem of dealing with belief systems. We seem to be keyed locked in

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00:46:07,880 --> 00:46:19,160

in a way to the idea that the source for UFO reports must be extraterrestrial. I was for a long time,

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00:46:20,200 --> 00:46:26,440

but I saw the light somewhere. I don't know that this is, it's not inoperative by any means,

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00:46:26,440 --> 00:46:33,240

or I don't feel that at this point it's an operative as a hypothesis. But it has been made

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00:46:33,240 --> 00:46:39,480

increasingly clear to me over the past couple years that there there must be alternatives,

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00:46:39,480 --> 00:46:47,400

because I think the theoretical arguments raised by Mr. Fuller are legitimate. And I don't know how

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00:46:47,400 --> 00:46:54,120

to account for them. I can't because I'm not qualified. But we are faced with a clutch of cases

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00:46:54,680 --> 00:47:01,640

where the predominant description is of a humanoid entity. But I don't think that we should

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00:47:01,720 --> 00:47:08,600

lock ourselves into the belief system that it must be representative of an extraterrestrial

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00:47:08,600 --> 00:47:17,240

hypothesis, which is not to say that it is not. However, there are other possibilities. The reason

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00:47:17,240 --> 00:47:26,840

that we may be getting so many humanoid entities is kind of external imposition of an anthropomorphic

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00:47:26,840 --> 00:47:33,320

interpretation of what something should look like or what we would prefer it to look like if

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00:47:33,320 --> 00:47:40,040

the scenario that's taking place is to be interpreted in its roughly reported terms

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00:47:41,320 --> 00:47:47,800

is much easier to conceive of a bizarre, strange experience in terms of what we're familiar with.

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00:47:48,600 --> 00:47:55,560

I think this suggests very strongly the problem that we're faced is not are they extraterrestrial,

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00:47:55,560 --> 00:48:04,840

but is what is going on here simulated by something external going on? Or is there a possibility that

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00:48:04,840 --> 00:48:11,960

some mechanism is at work interiorly in the human consciousness that is creating these

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00:48:11,960 --> 00:48:19,480

manifestations? And are they merely an externalization of some psychological or sociological

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00:48:19,480 --> 00:48:26,280

mechanism about which we know very little at this point? That's as much as I can say on it.

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00:48:33,400 --> 00:48:39,400

For all the friends that will comment on this. Yeah, I'm going to just think disadvantage

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00:48:39,400 --> 00:48:46,760

because I'm a maverick. When I started looking at UFO reports, I looked at the reports and let them

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00:48:46,760 --> 00:48:53,160

teach me. I always thought that there would be some real monsters if they if occupants did

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00:48:53,160 --> 00:48:58,680

manifest themselves. And when the humanoids came along, I couldn't believe. I just couldn't believe.

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00:48:59,400 --> 00:49:04,680

I still don't know if I believe, but I still say people are seeing them they exist.

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00:49:10,360 --> 00:49:14,360

Jim, do you want to talk from this or do you want to talk from up here? I'll have to

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00:49:14,920 --> 00:49:19,080

cop sort of the same plea that Ted did and say that I'm not qualified to enter into

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00:49:19,880 --> 00:49:27,960

a biological argument, turning biological theory. In trying to assess my own qualifications, I

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00:49:28,840 --> 00:49:37,880

find that I have some technical background. But in approaching this subject under discussion,

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00:49:37,880 --> 00:49:46,040

I'm approaching it entirely as a layman and as an empiricist. And I guess I look at myself in a way

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00:49:46,040 --> 00:49:55,080

as a sort of an obscure philosopher known mainly for my obscurity. My approach to this, I say, is

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00:49:55,080 --> 00:50:05,160

and as an empiricist. And I find the arguments against humanoids very persuasive. However,

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00:50:05,160 --> 00:50:11,160

arguments and statistics can be misleading sometimes. And I'll just give an example. I live

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00:50:11,160 --> 00:50:18,840

in Tucson, Arizona. And suppose that someone would come to me now and say that they have reason to

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00:50:18,840 --> 00:50:26,680

believe that my house has just been burglarized. If that idea doesn't appeal to me, I can resort to

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00:50:26,680 --> 00:50:31,480

a lot of statistics. And I can convince myself that it hasn't been burglarized because I can take

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00:50:31,560 --> 00:50:39,960

the number of houses and the frequency with which burglaries occur in Tucson and the diligence

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00:50:39,960 --> 00:50:45,560

of the police and patrolling and various things of that sort. And I can show that the chances are

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00:50:45,560 --> 00:50:51,640

so remote that I need to concern myself about it. But I would say that really the best way to check

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00:50:51,640 --> 00:51:00,440

on that is to go home and look. That's the approach of an empiricist. That's the approach that I've

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00:51:00,440 --> 00:51:11,320

taken in dealing with UFO occupant reports. Here we have an opportunity to investigate a phenomenon

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00:51:12,120 --> 00:51:18,520

and decide on the basis of evidence as best we can, whether or not it's really occurring. And I'm

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00:51:18,520 --> 00:51:25,080

not going to say that it's clear. But just one more reference theorizing, it's a time honored way of

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00:51:25,080 --> 00:51:32,200

avoiding a problem that you don't want. But I doubt that that theorizing would be very satisfactory

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00:51:32,200 --> 00:51:40,840

to Travis Walton, for example. So I think that my contribution to this discussion today will be

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00:51:40,840 --> 00:51:48,520

to discuss two cases that I've investigated personally that support each other in quite a

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00:51:48,520 --> 00:51:57,240

remarkable way. First case I'll discuss involves Sergeant Charles Moody, who is the tech sergeant

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00:51:57,240 --> 00:52:04,600

in the Air Force. He was stationed at Holloman Air Force Base at Elm Agordano, Mexico. And

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00:52:05,960 --> 00:52:13,560

in 1975, the month of August, I believe it was August 13th, he working swing shift at the base

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00:52:13,560 --> 00:52:20,600

was not tired on returning home one evening. And he had heard that day about meteor showers that were

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00:52:20,600 --> 00:52:24,120

supposed to occur. So he thought he'd go out to the edge of town and watch for meteors.

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00:52:25,160 --> 00:52:31,400

He went out and parked in an area that's quite isolated from the city, even though it's nearby.

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00:52:31,960 --> 00:52:39,400

It's isolated by some ridges and desert growth. He sat on the fender of his automobile for a while,

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00:52:39,400 --> 00:52:46,200

smoked a cigarette and watched and he saw a few meteors. Then abruptly he saw a disc drop out of

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00:52:46,200 --> 00:52:53,480

the sky. And he's describing this to me, he said, it wobbled a little like an uncaged gyro. And then

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00:52:53,480 --> 00:53:00,200

it caged, he says. And then it made a humming sound and moved slowly toward me. Now Moody was a

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00:53:00,200 --> 00:53:06,360

fellow who never believed this sort of thing could happen. In fact, he told me that he had been on

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00:53:06,360 --> 00:53:15,000

several inquiry boards investigating UFO incidents in the Air Force and he'd helped railroad a few

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00:53:15,000 --> 00:53:21,080

people into some severe statements of charges that had lost pilots that had lost aircraft in UFO

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00:53:21,080 --> 00:53:26,440

encounters. And he said that the coaching and the training he'd received just didn't prepare him to

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00:53:26,440 --> 00:53:31,720

accept the reality of this sort of thing. So he was quite surprised. That's putting it mildly. He

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00:53:31,720 --> 00:53:37,160

jumped off the fender of his car and jumped into it and tried to start it and it wouldn't start.

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00:53:38,040 --> 00:53:43,320

The dome light didn't even come on, electrical system seemed to be dead. Then his next memory

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00:53:43,880 --> 00:53:51,560

was to see the UFO flying away. The disc was moving off, elevating into the sky and disappearing.

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00:53:51,560 --> 00:53:57,720

And he was feeling very numb like his whole body was asleep. He went to, he started his car then,

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00:53:57,720 --> 00:54:03,880

it started easily. He went home checking his watch on the way he realized he'd lost an hour and a half.

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00:54:04,920 --> 00:54:11,560

Came into his house. His wife was looking at him quite strangely. She told me at the time that

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00:54:12,120 --> 00:54:17,240

she wanted where he'd been naturally and he came in looking quite pale and said,

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00:54:17,240 --> 00:54:20,920

you'll never believe what happened to me. And she said, well, you'd better try me.

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00:54:21,480 --> 00:54:32,840

But in the course of time following this incident, Sergeant Moody got in touch with

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00:54:32,840 --> 00:54:39,720

APRO privately. He did not want to make a public report. Felt that it would have severe

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00:54:40,360 --> 00:54:48,200

effects on his future as an Air Force career man. So we investigated the case quietly,

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00:54:49,000 --> 00:54:54,600

put him in touch with Dr. Harder by telephone and made some tentative arrangements for some

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00:54:54,600 --> 00:55:01,800

regressive hypnosis. In the meantime, Moody got in touch with an acquaintance of him,

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00:55:02,360 --> 00:55:09,160

of his that he'd known for quite a few years, a retired flight surgeon retired from the Air Force.

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00:55:10,040 --> 00:55:14,040

And this man told him how to practice this over telephone, how to practice the sort of

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00:55:15,000 --> 00:55:19,960

of self hypnosis meditation that might help restore his memory for the lost time.

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00:55:20,760 --> 00:55:26,200

There are quite a few details to this case. Moody had an injured back when he came out of this

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00:55:26,200 --> 00:55:33,560

incident. And after a couple of days, he broke out in a rash all over his body, covered from

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00:55:33,560 --> 00:55:40,600

roughly middle chest area to his knees. He went on sick call and was sent to

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00:55:41,560 --> 00:55:48,280

referred to William Bowman Army Hospital, where they treated him for a dose of radiation.

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00:55:48,280 --> 00:55:52,040

They gave him the standard treatment and it caused a little excitement because no one could figure

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00:55:52,040 --> 00:55:58,120

out where he got this radiation, since he did not tell him of the experience. The only conclusion

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00:55:58,120 --> 00:56:03,080

they could come to that there was radioactive material stored near the service line and it

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00:56:03,080 --> 00:56:08,760

was used in conjunction with magnetron grids that were charged with this radioactive material.

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00:56:09,560 --> 00:56:15,400

There was supporting physical evidence for his story. It wasn't simply something that could have

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00:56:15,400 --> 00:56:20,520

dreamed up entirely. After receiving the standard treatment for a dose of radiation and he was

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00:56:20,520 --> 00:56:27,400

returned to duty, he began to call me periodically. I would call him. But one thing that I advised

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00:56:27,400 --> 00:56:32,600

him against was using the phone at the air base, but he did use more than effect as the military

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00:56:32,600 --> 00:56:41,160

watts line from the operations during the evening. And very shortly, there was sort of a prophecy

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00:56:41,160 --> 00:56:47,160

that I had made that became fulfilled. When I first talked to Moody, he said,

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00:56:47,160 --> 00:56:51,320

what do you suppose would happen if I report it to my superiors on this? And I said,

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00:56:51,320 --> 00:56:56,360

the first thing I think would happen is you'd receive shipping orders. So one evening, Moody

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00:56:56,360 --> 00:57:01,720

called me and said, guess what? I'm being shipped. So I feel that probably the phone is monitored

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00:57:01,720 --> 00:57:06,200

because he certainly wasn't due for overseas rotation. Should have had a couple of years

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00:57:06,200 --> 00:57:13,080

by normal procedures at that base. Circumvented our plans to have him regressed hypnotically.

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00:57:13,080 --> 00:57:18,920

The only way I got to interview him personally is the National Inquirer eventually flew me to

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00:57:18,920 --> 00:57:23,880

where he was located and the story came out through the inquirer because of the help we had in this

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00:57:23,880 --> 00:57:30,440

way. We were able to subject his testimony to psychological stress evaluation, which supported

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00:57:30,520 --> 00:57:37,800

the truthfulness of his account. He remembered occupants, which he described as follows, that

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00:57:37,800 --> 00:57:44,280

they weighed in the neighborhood of 100 pounds, he would guess that they were under five feet tall,

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00:57:45,240 --> 00:57:52,760

that they had large domed heads, no hair, not even eyebrows, that they had five digit hands,

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00:57:52,760 --> 00:58:01,000

but they had no fingernails, that they wore uniforms, which were like coveralls that ended

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00:58:01,000 --> 00:58:07,240

at the wrist and at the, without a cuff, just simply terminated. And at the end of the throat,

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00:58:07,240 --> 00:58:14,360

the same way that they had, that they were very slender and billed with apparently very little

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00:58:14,920 --> 00:58:22,280

chest capacity. Their mouths were essentially just a slit, that the nose was very, very small,

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00:58:23,320 --> 00:58:29,320

that the ears were very small, that the eyes were friendly located like humans, but were very large.

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00:58:30,920 --> 00:58:35,800

He reported also that the interior of the vehicle was dimly lit. He had trouble seeing

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00:58:36,440 --> 00:58:43,240

and he reported that it was quite warm. Before I got these details from Moody, which he wrote,

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00:58:43,240 --> 00:58:49,320

he wrote these details in a letter after he had recalled. But before I received these details from

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00:58:49,400 --> 00:58:55,080

him, I was, I had made a trip to Phoenix, Arizona, to investigate the Travis Walton case.

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00:58:55,880 --> 00:59:01,480

But I just want to go through where I feel that the Walton's case supports Moody's and vice versa.

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00:59:02,760 --> 00:59:08,680

I think the most you're familiar with the case, but briefly, Walton was with a crew of wood cutters,

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00:59:08,680 --> 00:59:15,960

there were seven total, leaving the woods at sunset. They saw a disc shaped object estimated

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00:59:15,960 --> 00:59:22,520

variously from 15 to 20 feet above the terrain, hovering in a clearing. Walton, deciding that

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00:59:22,520 --> 00:59:26,120

this was the best chance he'd ever had to get a good look at one of these things, jumped out of

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00:59:26,120 --> 00:59:31,960

the vehicle and ran up close to it. The other people reported that they saw him struck by a ray,

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00:59:32,680 --> 00:59:39,320

beam of some kind from the vehicle. He fell over, they panicked and left the scene. After

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00:59:39,320 --> 00:59:43,720

recovering a little from their fright and thinking what they'd done, they looked, the vehicle looked

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00:59:43,800 --> 00:59:50,040

back, saw a light at something, elevate from the area and move off. And they must have decreased

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00:59:50,040 --> 00:59:55,240

the return and looked for Travis, but he was not there. Considerable search was conducted over

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00:59:55,240 --> 01:00:01,880

the next few days, involving around 50 people on foot, some on horseback, helicopters and so on.

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01:00:02,840 --> 01:00:09,240

Travis was not found. However, according to his account, he found himself on the roadway near

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01:00:09,240 --> 01:00:17,240

Heber, Arizona, around five days and six hours later. He went to a phone booth, called his brother

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01:00:17,240 --> 01:00:25,560

in law, became Gahim. He was taken by his brother to Phoenix. And I talked to him a couple of days

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01:00:25,560 --> 01:00:34,200

later. Jim Harger joined us for that investigation. On the Saturday after Travis's return, he was

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01:00:34,360 --> 01:00:40,600

addressed hypnotically and he described the occupants that he'd seen. And every detail that I've

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01:00:40,600 --> 01:00:47,560

given about Moody's occupants was described by Walton, although Moody's case had never been

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01:00:47,560 --> 01:00:53,640

published. And of course, Walton's hadn't occurred. So neither one could have known of the other one's

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01:00:53,640 --> 01:00:59,880

case. Now, this is the sort of evidence that leads me to think we are dealing with real humanoids.

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01:00:59,880 --> 01:01:07,320

I'd like to make a comment. Although neither man pointed this out, the type of humanoid they

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01:01:07,320 --> 01:01:15,240

describe is what you would expect to evolve in an environment where the atmosphere was somewhat dense

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01:01:15,240 --> 01:01:22,040

and you would not require large nostrils to breathe. You would not require a large chest capacity.

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01:01:22,040 --> 01:01:28,200

You would not require large ears to hear. But if your light level was quite low, you would

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01:01:28,200 --> 01:01:35,320

require a large eyes to see. If the atmosphere was damp and warm as the atmosphere was in these

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01:01:35,320 --> 01:01:41,320

vehicles, you might have one more item. They each described a very dry white skin.

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01:01:42,200 --> 01:01:47,080

Where it was, I think Moody described the skin as having the appearance of a white mushroom.

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01:01:47,880 --> 01:01:55,640

And Walton mentioned something like marshmallows. These are the two cases. And this is the way

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01:01:55,640 --> 01:02:03,000

they support each other. I find myself hard pressed to account for them in any way except that

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01:02:03,800 --> 01:02:08,520

they're being real occurrences that corroborate each other. Thank you.

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01:02:16,520 --> 01:02:23,480

Thank you, Jim. We will entertain questions from the audience. Yes, sir. Q. The question is

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01:02:23,800 --> 01:02:32,280

whether a two-legged, two-armed, one-head, with stereo vision creature that gets out of a spaceship

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01:02:33,480 --> 01:02:38,840

is to be called a humanoid or a biped. We're obviously talking about semantic things. To me,

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01:02:38,840 --> 01:02:45,960

the term humanoid meant exactly what you said, that it's chemically, genetically, and in all the

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01:02:45,960 --> 01:02:51,720

ways that we would think of relationship. They were not alike, but same general form

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01:02:52,680 --> 01:02:59,400

appeared. The term human would imply that they're alike. And I think that the term humanoid was

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01:02:59,400 --> 01:03:05,960

invented to show that they would be like the blackbird, but otherwise not alike.

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01:03:07,000 --> 01:03:13,640

When you mention it, there are many cases of so-called parallel evolution known in the

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01:03:13,640 --> 01:03:21,080

plant and animal kingdoms. I'm a botanist, and so I immediately think of the cacti of America

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01:03:21,080 --> 01:03:28,920

and the euphorbase of Africa, which have totally different kinds of flowers, and according to any

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01:03:28,920 --> 01:03:34,920

scheme of classification would not be related, but which have the very same form. They have the

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01:03:34,920 --> 01:03:41,080

same succulent with needles, et cetera, kind of a form. And that's the kind of an argument that

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01:03:41,080 --> 01:03:47,880

people put forth to indicate that there could be humanoids, not humans, but humanoids on other

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01:03:47,880 --> 01:03:54,200

planets that would not be related to us any more than a, well, much, much less than a cactus is

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01:03:54,200 --> 01:04:00,520

related to a euphorb, but that might nevertheless have the same appearance. Now, I get hung up on

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01:04:00,520 --> 01:04:05,960

a lot of these things. I guess that when you find yourself in UFO investigation, you find yourself in

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01:04:05,960 --> 01:04:12,680

a situation to doubt all kinds of things. And probably for that reason, or maybe because of my

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01:04:12,680 --> 01:04:18,360

basic personality that makes me doubt all kinds of things, I find myself in UFO investigation and

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01:04:18,360 --> 01:04:27,000

also questioning establishment biology in terms of the basic theory of evolution. And I see some

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01:04:27,000 --> 01:04:35,640

real problems, and the problems are exactly those problems of parallel evolution. You're up against

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01:04:35,640 --> 01:04:42,840

the statistics that I tried to indicate in writing Shakespeare by chance. If you want to get

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01:04:42,840 --> 01:04:50,600

things that are alike, and yet we see things alike in nature, and perhaps if the humanoids are as

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01:04:50,600 --> 01:04:57,080

the Lorenzans and Ted Blercher say, if the humanoids are really the fact of the matter,

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01:04:58,120 --> 01:05:04,280

then we see these parallelisms, and the question is, where do they come from? I don't think establishment

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01:05:04,280 --> 01:05:10,360

biology can account for such things. And consequently, there may be other possibilities,

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01:05:10,360 --> 01:05:18,440

intelligent creation or relationships among the stars, passage between the stars for a long,

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01:05:18,440 --> 01:05:25,000

long, long time, so that we're not only apparently the same features, but that we are indeed related.

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01:05:25,640 --> 01:05:31,240

That's, I think, a possibility worth considering. The answer, boy, I don't know it. I wouldn't

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01:05:31,240 --> 01:05:37,320

stand up here and say, I believe such and such, because I just don't have any idea of how the

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01:05:37,320 --> 01:05:41,720

answer is going to turn out. But I think those are the problems. I think I understand the problems

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01:05:41,720 --> 01:05:53,080

a little better than I used to, and that's about as far as we are. The question is, how do I recognize

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01:05:53,160 --> 01:06:02,120

the obvious, the apparent technology of UFOs with my own position on the humanoid hypothesis? I don't

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01:06:02,120 --> 01:06:09,480

deny that there are UFOs. I think every member of this panel believes, you know, but we don't know

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01:06:09,480 --> 01:06:16,600

what UFOs are. If we assume they are machines, obviously, they are very high technology.

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01:06:17,320 --> 01:06:21,720

The only point that I am making, really, is that if they are extraterrestrial,

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01:06:22,360 --> 01:06:30,280

and if they are intelligently wrong and there are beings inside them, the chances of evolution

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01:06:30,280 --> 01:06:33,720

are that they would not be humanoid. That's really the only point I'm making.

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01:06:35,000 --> 01:06:41,720

Well, I don't think that's correct. They put a little moon dust in the culture media for several

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01:06:41,720 --> 01:06:47,400

different kinds of plants. A guy with the name of Wackenshaw was in charge of it at this lunar

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01:06:47,400 --> 01:06:51,960

receiving lab. That's one of the things they were trying to do to justify its continued existence.

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01:06:53,080 --> 01:06:59,400

And some things grew lots better than the controls without the moon dust. And that was a bit exciting.

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01:06:59,400 --> 01:07:05,320

I don't think there's necessarily anything mysterious about it. Plants and animals need

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01:07:05,320 --> 01:07:11,160

trace elements, and apparently the moon dust has the right ones for certain species. I don't remember

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01:07:11,800 --> 01:07:16,520

any results, although it's been lots of years, of the type that you mentioned, where they wouldn't

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01:07:16,520 --> 01:07:24,040

grow. What I remember is that a couple of ferns and mosses grew a lot better. Well, I don't think I

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01:07:24,040 --> 01:07:28,920

want to get into the sons of God and the daughters of men. I think that's an obscure passage. I've

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01:07:28,920 --> 01:07:34,600

thought about it a lot too, though. I'll say that much. I don't know about many radiation cases.

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01:07:34,600 --> 01:07:41,720

These are the experts. Dad, Jim, are there many radiation cases that you know of? I only know

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01:07:41,720 --> 01:07:46,920

that one in Canada. And you mentioned Sargent Modya, maybe. There are not very many radiation cases,

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01:07:46,920 --> 01:07:55,480

but the symptoms seem to be quite clear. The effects of the electromagnetic energy are quite

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01:07:56,040 --> 01:08:03,880

different from the effects of radiation residuals. And it's not likely they could be confused.

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01:08:05,400 --> 01:08:12,520

That's about all I can say. Well, but electromagnetic energy is radiation in the sense that there's a

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01:08:12,520 --> 01:08:19,880

big old spectrum. And if you think of the particle way of looking at radiation, the photons,

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01:08:21,080 --> 01:08:26,520

they start from way out in the radio end where the photons are extremely weak. And as you get

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01:08:26,520 --> 01:08:31,720

shorter and shorter wavelengths, the photons become increasingly powerful. When you get to

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01:08:31,720 --> 01:08:37,160

about the ultraviolet, the photons are powerful enough to begin to cause chemical changes in

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01:08:37,160 --> 01:08:42,360

things that absorb them. When you get to the x-rays and the cosmic rays, they're even much more

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01:08:42,360 --> 01:08:48,280

powerful. The kind of radiation given off by radioactive materials is usually that very

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01:08:48,280 --> 01:08:54,600

powerful kind that causes lots of damage. Kinds of damage that are produced would be recognizable

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01:08:54,600 --> 01:09:00,120

for a given part of the spectrum. That's what you were saying. Yeah. Ultraviolet produces

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01:09:00,200 --> 01:09:06,680

something similar to sunburn and so on. Yeah. We have time for one or two more questions. Yes,

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01:09:07,720 --> 01:09:12,840

okay. The question is in the two cases I discussed, how did the

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01:09:13,480 --> 01:09:18,520

precipitates or the victims, what do you want to call them? How did they feel about the aliens?

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01:09:19,160 --> 01:09:26,120

Is that it? Essentially, Moody, well, to begin with, he felt like he was, he was lethargic and he

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01:09:26,120 --> 01:09:30,120

couldn't move very well and he claimed the communication too, by the way, that they could,

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01:09:30,120 --> 01:09:34,040

one of them could communicate with him in a way that he could not understand,

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01:09:35,240 --> 01:09:43,640

but which suggests telepathy. He felt sort of an admiration and mixed with fear for them,

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01:09:44,360 --> 01:09:51,880

was quite impressed with their technology and that sort of thing. And one of his remarks that he

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01:09:51,880 --> 01:09:57,960

made to me was he couldn't, he couldn't understand why they picked him up and he imposed this as a

585

01:09:57,960 --> 01:10:07,160

question and which they did not answer, but I'm digressing a little. Walton was simply unnerved

586

01:10:07,160 --> 01:10:12,200

by the whole experience and reacted violently as soon as he became conscious and saw that he was

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01:10:12,200 --> 01:10:19,480

surrounded by aliens. He described as defensive moves. He found himself on a table

588

01:10:20,200 --> 01:10:27,160

three aliens, two standing on his right and one on his left, the kind I've described. He jumped off

589

01:10:27,160 --> 01:10:35,320

the table and looked up, what looked like a large glass test tube off a sort of an instrument table

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01:10:35,320 --> 01:10:40,040

across the end of the room and tried to break it across the edge of the table to make a sharp

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01:10:40,040 --> 01:10:48,440

instrument to defend himself. And the aliens simply avoided him and left the room, but his reaction

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01:10:48,440 --> 01:10:55,160

was fearful because, well partly because when he slowly regained consciousness he felt that he was

593

01:10:55,160 --> 01:11:00,920

in a, they probably have been injured. He could remember just approaching the vehicle and then

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01:11:00,920 --> 01:11:07,400

having some feeling, some kind of electric shock. And when his next conscious moment, he's on this

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01:11:07,400 --> 01:11:10,840

table and he thought he was in a hospital, that he'd been injured and he was in a hospital,

596

01:11:11,480 --> 01:11:17,720

regular, Earth-type hospital. So on opening his eyes and seeing these aliens, you could be expected

597

01:11:17,720 --> 01:11:23,880

to be surprised and violent. Now there were his experience and his experience he encountered

598

01:11:23,880 --> 01:11:29,800

and countered other aliens, well I think they're aliens, they appeared to him to be human and

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01:11:30,600 --> 01:11:36,600

he looked to them for help to get him out of the situation because they looked human. But there

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01:11:36,600 --> 01:11:40,920

were some things about him that suggest they might not be human. They resembled each other

601

01:11:41,640 --> 01:11:47,080

so much, there were four of them, they resembled each other so much that some people suggested

602

01:11:47,080 --> 01:11:52,280

there were clones, I don't go that far. I asked Travis specifically if they had differences,

603

01:11:52,280 --> 01:11:56,840

like see a difference in hairline and he thought they had minor differences. But I think that's

604

01:11:56,840 --> 01:12:03,000

interesting psychologically, he reacted with fear and violence to the strange Supreme Ones and he

605

01:12:03,000 --> 01:12:08,360

looked to the, those that appeared human for help. We have time for one more question. Yes.

606

01:12:10,600 --> 01:12:15,720

I'm not aware of any reports from Black Africa, there are several from South Africa that describe

607

01:12:15,800 --> 01:12:23,400

Caucasian type humanoid's light skinned. One of these is a contact case of which I suspect is

608

01:12:23,400 --> 01:12:31,080

probably rather dubious, I don't know for certain. There are a few cases of humanoid types with

609

01:12:31,720 --> 01:12:38,360

non-Caucasian type skin and it varies from red-orange to brown. Some are described as black,

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01:12:38,360 --> 01:12:43,880

but it's not certain whether this is a tight helmet or hood-like affair over the over the face

611

01:12:43,880 --> 01:12:50,600

through which the features are seen or whether this is actual skin color. There are variants in

612

01:12:50,600 --> 01:12:58,680

the color by and large their Caucasian, the large number of them which suggests some very

613

01:12:58,680 --> 01:13:06,440

subjective interpretations to me. The majority of the reports come from Caucasians, but as far as

614

01:13:06,440 --> 01:13:13,560

I know there are no actual Negroid type humanoid's that I am aware of. There are a few green colored

615

01:13:13,880 --> 01:13:24,360

there are a few red-orange, quite a few tend deeply tend types from oddly enough South America or

616

01:13:24,360 --> 01:13:31,320

maybe not oddly enough I don't know, but they the tend the tend versions turn up in in Nordic

617

01:13:31,960 --> 01:13:39,480

areas too so it's really hard to make a generalization. One more question whether anyone

618

01:13:40,040 --> 01:13:48,280

in this panel has considered the possibility that they may somehow be related to L's or

619

01:13:48,280 --> 01:13:54,440

leprechauns or something like that. Does anyone here care to speak to it? As I mentioned briefly

620

01:13:54,440 --> 01:14:01,080

yesterday there were three reports from 1976 of humanoid entities. Two of them from Dunn,

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01:14:01,080 --> 01:14:06,440

North Carolina that were that were investigated quite thoroughly by the local newspaper editor

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01:14:07,400 --> 01:14:13,720

who reported on the incident in Pursuit Magazine I believe the most recent issue which is put out

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01:14:13,720 --> 01:14:24,040

by Ivan Sanderson's group Situ and these entities in Dunn, North Carolina were extremely reminiscent

624

01:14:24,600 --> 01:14:33,880

of the earth folk type of creature. They were under a foot tall and they had the qualities of

625

01:14:33,880 --> 01:14:45,560

fairies rather than than space travelers. This meeting of knowledge earned thank you.