

**SK≡PTIKO**  
science & spirituality

# **788,000 YEAR OLD SCIENCE**

**562-BRUCE-FENTON**



1  
00:00:00,880 --> 00:00:04,710  
on this episode of skeptico

2  
00:00:10,709 --> 00:00:07,749  
a show about what's going on in space

3  
00:00:15,030 --> 00:00:12,549  
it's what we call a global killer

4  
00:00:16,470 --> 00:00:15,040  
nothing would survive not even bacteria

5  
00:00:19,189 --> 00:00:16,480  
in a scene straight out of the movie

6  
00:00:21,750 --> 00:00:19,199  
armageddon real-life nasa scientists are

7  
00:00:24,550 --> 00:00:21,760  
going to ram a spacecraft into one

8  
00:00:28,870 --> 00:00:24,560  
massive asteroid

9  
00:00:30,550 --> 00:00:28,880  
and 788 thousand years ago

10  
00:00:32,150 --> 00:00:30,560  
again for this very reason that they

11  
00:00:35,110 --> 00:00:32,160  
they understood this appeared to be

12  
00:00:36,870 --> 00:00:35,120  
already glass and to come from space so

13  
00:00:39,270 --> 00:00:36,880

a lot of the nasa guys were arguing this

14

00:00:40,869 --> 00:00:39,280

had to be lunar material that theory

15

00:00:43,270 --> 00:00:40,879

collapsed when we retrieved lunar

16

00:00:45,270 --> 00:00:43,280

materials and realized it did not mesh

17

00:00:47,029 --> 00:00:45,280

but their argument was very sound one of

18

00:00:48,630 --> 00:00:47,039

the guys actually said well look what

19

00:00:50,549 --> 00:00:48,640

about if you came from interplanetary

20

00:00:51,750 --> 00:00:50,559

space or somewhere further out well

21

00:00:53,430 --> 00:00:51,760

that's the problem nobody take that

22

00:00:55,750 --> 00:00:53,440

seriously because

23

00:00:58,709 --> 00:00:55,760

what's the chances that it ends up in a

24

00:01:02,229 --> 00:00:58,719

geocentric orbit

25

00:01:04,869 --> 00:01:02,239

that first clip was from the today show

26

00:01:07,990 --> 00:01:04,879

and the second one was from today's

27

00:01:10,390 --> 00:01:08,000

guest bruce fenton who you've heard on

28

00:01:12,789 --> 00:01:10,400

this show before and i can pretty much

29

00:01:14,789 --> 00:01:12,799

guarantee you you will hear from him

30

00:01:17,429 --> 00:01:14,799

again he's doing

31

00:01:20,429 --> 00:01:17,439

i think just about the most important

32

00:01:21,990 --> 00:01:20,439

scientific research into

33

00:01:25,109 --> 00:01:22,000

etufu

34

00:01:27,429 --> 00:01:25,119

the phenomenon if you will then well

35

00:01:30,069 --> 00:01:27,439

really just about anyone else i can

36

00:01:31,429 --> 00:01:30,079

think of and i think the reason for that

37

00:01:33,510 --> 00:01:31,439

comes through

38

00:01:36,230 --> 00:01:33,520

in this interview

39

00:01:38,390 --> 00:01:36,240

stick around it's a good one

40

00:01:40,550 --> 00:01:38,400

welcome to skeptico where we explore

41

00:01:42,950 --> 00:01:40,560

controversial science and spirituality

42

00:01:44,469 --> 00:01:42,960

with leading researchers thinkers and

43

00:01:47,270 --> 00:01:44,479

their critics

44

00:01:51,030 --> 00:01:47,280

today we welcome back bruce fenton to

45

00:01:52,950 --> 00:01:51,040

skeptico bruce is the author of several

46

00:01:54,429 --> 00:01:52,960

books i pulled up one of them you can

47

00:01:58,069 --> 00:01:54,439

find on amazon

48

00:02:01,109 --> 00:01:58,079

exogenesis hybrid humans a scientific

49

00:02:02,789 --> 00:02:01,119

history of extraterrestrial

50

00:02:05,270 --> 00:02:02,799

what's the rest of that

51  
00:02:06,389 --> 00:02:05,280  
genetic manipulation

52  
00:02:07,590 --> 00:02:06,399  
there's a couple other books you're

53  
00:02:10,070 --> 00:02:07,600  
going to want to check out i won't

54  
00:02:13,110 --> 00:02:10,080  
bother reading all of those into the

55  
00:02:15,510 --> 00:02:13,120  
show but into africa hybrid humans

56  
00:02:18,869 --> 00:02:15,520  
and then bruce and i a couple years ago

57  
00:02:20,830 --> 00:02:18,879  
because i met bruce through skeptico and

58  
00:02:24,229 --> 00:02:20,840  
i was so blown

59  
00:02:27,589 --> 00:02:24,239  
away at the quality and importance of

60  
00:02:29,270 --> 00:02:27,599  
this work that i took upon myself to do

61  
00:02:31,670 --> 00:02:29,280  
a little

62  
00:02:32,710 --> 00:02:31,680  
movie we did and here it is on prime viv

63  
00:02:35,430 --> 00:02:32,720

video

64

00:02:38,390 --> 00:02:35,440  
you can watch it 780 000 years

65

00:02:40,790 --> 00:02:38,400  
our alien origin story

66

00:02:44,790 --> 00:02:40,800  
so go check that out if you want bruce

67

00:02:46,390 --> 00:02:44,800  
gets a couple little pennies if you do

68

00:02:48,229 --> 00:02:46,400  
but his work

69

00:02:50,470 --> 00:02:48,239  
i i just have to give this little bit of

70

00:02:52,070 --> 00:02:50,480  
introduction bruce and

71

00:02:53,350 --> 00:02:52,080  
you've been on the show a couple times

72

00:02:54,790 --> 00:02:53,360  
people can find you a lot of different

73

00:02:58,070 --> 00:02:54,800  
places

74

00:03:00,149 --> 00:02:58,080  
but like where i want to go with this

75

00:03:01,670 --> 00:03:00,159  
is really

76

00:03:03,350 --> 00:03:01,680

help people understand why i think

77

00:03:05,589 --> 00:03:03,360

you're one of the top

78

00:03:09,190 --> 00:03:05,599

ufo researchers in the world

79

00:03:10,790 --> 00:03:09,200

and why i think that is like makes you

80

00:03:13,270 --> 00:03:10,800

one of the top

81

00:03:15,190 --> 00:03:13,280

scientists in the world and i think

82

00:03:18,149 --> 00:03:15,200

that's really hard for people to swallow

83

00:03:19,509 --> 00:03:18,159

it sounds like hype it sounds like gosh

84

00:03:21,350 --> 00:03:19,519

i've never heard of this guy or this

85

00:03:23,350 --> 00:03:21,360

guy's just you know he's so minor you

86

00:03:26,550 --> 00:03:23,360

know how can you say that well let me

87

00:03:28,710 --> 00:03:26,560

explain my logic because i think it will

88

00:03:30,470 --> 00:03:28,720

play into the show in a couple of

89

00:03:31,509 --> 00:03:30,480

important ways so

90

00:03:34,229 --> 00:03:31,519

let's say you're going to take a big

91

00:03:35,910 --> 00:03:34,239

picture view of the ufo issue

92

00:03:38,949 --> 00:03:35,920

biggest possible picture you could take

93

00:03:40,789 --> 00:03:38,959

you'd say okay do ufos exist

94

00:03:42,630 --> 00:03:40,799

where do they come from

95

00:03:44,390 --> 00:03:42,640

what do they want

96

00:03:45,990 --> 00:03:44,400

right so these three would probably be

97

00:03:46,949 --> 00:03:46,000

the biggest biggest questions you could

98

00:03:49,110 --> 00:03:46,959

ask

99

00:03:51,110 --> 00:03:49,120

and i would suggest

100

00:03:54,229 --> 00:03:51,120

that unless you're willing to really

101  
00:03:57,270 --> 00:03:54,239  
take a stab at answering those questions

102  
00:03:58,149 --> 00:03:57,280  
in a scientific way

103  
00:04:00,949 --> 00:03:58,159  
then

104  
00:04:03,670 --> 00:04:00,959  
you can't answer all the other questions

105  
00:04:08,149 --> 00:04:03,680  
that seem to dominate this discussion

106  
00:04:11,509 --> 00:04:08,159  
disclosure lou elizondo atif abductions

107  
00:04:13,110 --> 00:04:11,519  
good et vad et grays versus lizards

108  
00:04:15,589 --> 00:04:13,120  
all that stuff

109  
00:04:17,349 --> 00:04:15,599  
you can't answer unless you answer those

110  
00:04:20,069 --> 00:04:17,359  
big picture questions

111  
00:04:22,950 --> 00:04:20,079  
now what i'm leading up to is bruce more

112  
00:04:27,189 --> 00:04:22,960  
than anyone i've come in contact with

113  
00:04:29,670 --> 00:04:27,199

has directly tried to apply science

114

00:04:32,790 --> 00:04:29,680

to those big picture questions and he

115

00:04:34,790 --> 00:04:32,800

does it just brilliantly in this book

116

00:04:36,710 --> 00:04:34,800

but he also does it in

117

00:04:39,909 --> 00:04:36,720

his other presentations that he's given

118

00:04:42,230 --> 00:04:39,919

and all his papers and stuff like that

119

00:04:44,350 --> 00:04:42,240

so that's what makes this so important

120

00:04:47,909 --> 00:04:44,360

is that here's a guy who's

121

00:04:51,430 --> 00:04:47,919

scientifically taken a stab at research

122

00:04:53,990 --> 00:04:51,440

that directly gets at even if it doesn't

123

00:04:56,550 --> 00:04:54,000

answer all those questions completely it

124

00:04:57,749 --> 00:04:56,560

moves us towards an answer to those

125

00:05:00,629 --> 00:04:57,759

questions

126

00:05:02,469 --> 00:05:00,639

that can then let us answer

127

00:05:03,510 --> 00:05:02,479

those other questions

128

00:05:05,430 --> 00:05:03,520

so

129

00:05:07,430 --> 00:05:05,440

what do you think of that bruce i know

130

00:05:08,950 --> 00:05:07,440

that's kind of hard to ask you to

131

00:05:11,670 --> 00:05:08,960

comment on that

132

00:05:13,670 --> 00:05:11,680

but i think that is in your core when i

133

00:05:16,950 --> 00:05:13,680

hear you talk is that

134

00:05:19,749 --> 00:05:16,960

you really are searching for

135

00:05:22,070 --> 00:05:19,759

scientific evidence that drills into

136

00:05:23,749 --> 00:05:22,080

these big picture questions that we so

137

00:05:25,909 --> 00:05:23,759

often just gloss over and assume that

138

00:05:27,430 --> 00:05:25,919

they're that that we either know or

139

00:05:28,790 --> 00:05:27,440

they're impossible to answer or any of

140

00:05:29,990 --> 00:05:28,800

the rest of that you have any comment on

141

00:05:31,990 --> 00:05:30,000

that

142

00:05:33,510 --> 00:05:32,000

yeah sure i mean i've seen you know some

143

00:05:35,990 --> 00:05:33,520

accolades if you've thrown there so i

144

00:05:38,550 --> 00:05:36,000

mean um because gives me some pause to

145

00:05:40,390 --> 00:05:38,560

thought to how i would look i see myself

146

00:05:43,270 --> 00:05:40,400

certainly as trying to apply

147

00:05:45,749 --> 00:05:43,280

the scientific method to extraordinary

148

00:05:48,310 --> 00:05:45,759

and anomalous areas of thought you know

149

00:05:50,230 --> 00:05:48,320

and those those little mysteries on the

150

00:05:52,710 --> 00:05:50,240

edges of you know

151  
00:05:54,950 --> 00:05:52,720  
consensus uh understanding of science

152  
00:05:56,790 --> 00:05:54,960  
and consensus culture if you like um the

153  
00:05:59,510 --> 00:05:56,800  
anomalies you know what appealed to me

154  
00:06:02,309 --> 00:05:59,520  
you know those scientific anomalies so i

155  
00:06:05,110 --> 00:06:02,319  
would say i've been on a journey from

156  
00:06:06,309 --> 00:06:05,120  
probably being quite credulous like you

157  
00:06:09,909 --> 00:06:06,319  
know a lot of people go into those kind

158  
00:06:12,550 --> 00:06:09,919  
of areas you know accepting a lot of um

159  
00:06:15,029 --> 00:06:12,560  
of conjecture and a lot of strange

160  
00:06:16,710 --> 00:06:15,039  
hypotheses that didn't have much

161  
00:06:17,590 --> 00:06:16,720  
substance to a point where i realized

162  
00:06:18,870 --> 00:06:17,600  
that

163  
00:06:20,469 --> 00:06:18,880

to really

164

00:06:24,309 --> 00:06:20,479

make an impact

165

00:06:26,550 --> 00:06:24,319

you you have to be able to explain

166

00:06:28,469 --> 00:06:26,560

all of the evidence

167

00:06:31,189 --> 00:06:28,479

you know all the different constituent

168

00:06:33,270 --> 00:06:31,199

parts of a topic you have to understand

169

00:06:34,710 --> 00:06:33,280

them in a framework broader into where

170

00:06:37,110 --> 00:06:34,720

topics link with each other you have to

171

00:06:39,909 --> 00:06:37,120

understand this vast web behind

172

00:06:41,670 --> 00:06:39,919

something like say human origins or uh

173

00:06:43,350 --> 00:06:41,680

lost parts of history that you can't

174

00:06:44,629 --> 00:06:43,360

just say look at the pyramid on its own

175

00:06:46,550 --> 00:06:44,639

and say you know wow look at that

176

00:06:48,390 --> 00:06:46,560

mystery you have to understand say

177

00:06:50,629 --> 00:06:48,400

prehistoric cultures the rise of

178

00:06:52,790 --> 00:06:50,639

culturalizing civilizations uh how

179

00:06:54,870 --> 00:06:52,800

people could have flowed out of the you

180

00:06:57,270 --> 00:06:54,880

know original areas where modern humans

181

00:06:58,629 --> 00:06:57,280

arose you know you started this

182

00:07:01,029 --> 00:06:58,639

vast

183

00:07:02,629 --> 00:07:01,039

matrix a context for these kind of

184

00:07:04,230 --> 00:07:02,639

mysteries and that's where i've been

185

00:07:06,070 --> 00:07:04,240

taken to is is understanding all of

186

00:07:08,469 --> 00:07:06,080

these data points and bringing them

187

00:07:11,430 --> 00:07:08,479

together and of course that's really is

188

00:07:13,670 --> 00:07:11,440

part of the scientific process is to

189

00:07:16,230 --> 00:07:13,680

take all of the evidence and find the

190

00:07:18,790 --> 00:07:16,240

hypothesis that fits with all of it and

191

00:07:20,790 --> 00:07:18,800

explains the outstanding anomalies right

192

00:07:22,309 --> 00:07:20,800

and that that's where i'm at so i would

193

00:07:23,909 --> 00:07:22,319

say yes i'm applying science although

194

00:07:25,990 --> 00:07:23,919

i'm not a

195

00:07:29,110 --> 00:07:26,000

credentialed scientist you know i have

196

00:07:32,309 --> 00:07:29,120

an i.t diploma i don't have a you know a

197

00:07:35,270 --> 00:07:32,319

phd in any of the hard sciences

198

00:07:37,749 --> 00:07:35,280

i'm applying that scientific method now

199

00:07:41,430 --> 00:07:37,759

to areas that traditionally have been

200

00:07:44,070 --> 00:07:41,440

left as areas of pure speculation mostly

201  
00:07:46,790 --> 00:07:44,080  
or have been the focus of what i'd say

202  
00:07:49,510 --> 00:07:46,800  
is fairly lackluster debunking by

203  
00:07:51,830 --> 00:07:49,520  
scientists who haven't taken the time to

204  
00:07:54,790 --> 00:07:51,840  
really explore all of the evidence but

205  
00:07:57,350 --> 00:07:54,800  
focus more on the problematic

206  
00:07:59,110 --> 00:07:57,360  
um speculative theories that on offer

207  
00:08:01,270 --> 00:07:59,120  
which are often are quite easily

208  
00:08:02,869 --> 00:08:01,280  
dismissed quite honestly

209  
00:08:05,589 --> 00:08:02,879  
and so i i think i have stepped into a

210  
00:08:07,189 --> 00:08:05,599  
kind of a strange niche there where

211  
00:08:09,189 --> 00:08:07,199  
there's very few people that are

212  
00:08:11,270 --> 00:08:09,199  
actually applying the scientific method

213  
00:08:14,309 --> 00:08:11,280

to seeing whether the

214

00:08:16,710 --> 00:08:14,319

strange hypotheses on offer actually

215

00:08:19,270 --> 00:08:16,720

make sense rather than just dismissing

216

00:08:21,110 --> 00:08:19,280

them or ignoring these topics in in

217

00:08:23,510 --> 00:08:21,120

entirety so

218

00:08:25,670 --> 00:08:23,520

in the field of anomalous science

219

00:08:27,189 --> 00:08:25,680

yes i probably am

220

00:08:27,990 --> 00:08:27,199

one of the

221

00:08:35,750 --> 00:08:28,000

the

222

00:08:38,230 --> 00:08:35,760

bruce let me interject because here's

223

00:08:40,070 --> 00:08:38,240

what i see on your path that i find

224

00:08:41,990 --> 00:08:40,080

interesting and i think anyone who

225

00:08:43,909 --> 00:08:42,000

appreciates the application of the

226

00:08:46,310 --> 00:08:43,919

scientific method by people like

227

00:08:48,230 --> 00:08:46,320

yourself is that

228

00:08:49,430 --> 00:08:48,240

i see you looking at all these anomalies

229

00:08:52,389 --> 00:08:49,440

like you're talking about with these

230

00:08:54,389 --> 00:08:52,399

previous books and in your journey with

231

00:08:56,389 --> 00:08:54,399

your wife danny who is

232

00:08:58,230 --> 00:08:56,399

co-author of these books and is

233

00:09:00,710 --> 00:08:58,240

brilliant in her own writing but we

234

00:09:02,630 --> 00:09:00,720

spoke to danny when we did the film

235

00:09:05,590 --> 00:09:02,640

but here's what i really like i get

236

00:09:08,389 --> 00:09:05,600

excited about in this book exogenesis

237

00:09:09,590 --> 00:09:08,399

hybrid humans you found

238

00:09:12,150 --> 00:09:09,600

a case

239

00:09:15,350 --> 00:09:12,160

and then you sunk your teeth into it

240

00:09:17,670 --> 00:09:15,360

because you found it as a vehicle for

241

00:09:20,230 --> 00:09:17,680

tying all these things together so it's

242

00:09:21,750 --> 00:09:20,240

not like you went looking but i think so

243

00:09:24,070 --> 00:09:21,760

few people understand this i was just

244

00:09:26,310 --> 00:09:24,080

listening to an interview you gave and

245

00:09:27,910 --> 00:09:26,320

the guy who is this pretty prominent ufo

246

00:09:29,590 --> 00:09:27,920

community he just couldn't wrap his head

247

00:09:31,750 --> 00:09:29,600

around it because he was so skeptical

248

00:09:33,350 --> 00:09:31,760

not skeptical but just like no you know

249

00:09:36,230 --> 00:09:33,360

that doesn't add up that doesn't prove

250

00:09:37,509 --> 00:09:36,240

it this way and instead what i saw is

251  
00:09:40,070 --> 00:09:37,519  
like no

252  
00:09:42,470 --> 00:09:40,080  
what bruce has done is exactly what

253  
00:09:44,389 --> 00:09:42,480  
somebody needs to do kind of

254  
00:09:46,949 --> 00:09:44,399  
go through all these little pieces on

255  
00:09:50,070 --> 00:09:46,959  
the ground until you find one piece

256  
00:09:52,150 --> 00:09:50,080  
that really unlocks it and then dig into

257  
00:09:54,070 --> 00:09:52,160  
that piece and keep digging into it and

258  
00:09:55,750 --> 00:09:54,080  
then look at the tectites and look at

259  
00:09:57,910 --> 00:09:55,760  
the flow and look at the silicon and

260  
00:09:59,910 --> 00:09:57,920  
look at how they fall and then trash

261  
00:10:01,350 --> 00:09:59,920  
that trace that back to the time period

262  
00:10:03,350 --> 00:10:01,360  
so

263  
00:10:05,590 --> 00:10:03,360

let me see if if that

264

00:10:09,030 --> 00:10:05,600

resonates with you in terms of

265

00:10:12,389 --> 00:10:09,040

this case that really becomes the focus

266

00:10:14,150 --> 00:10:12,399

of so much of your work and

267

00:10:16,230 --> 00:10:14,160

how important do you think that case is

268

00:10:17,910 --> 00:10:16,240

how different is it and then of course

269

00:10:19,269 --> 00:10:17,920

we have to give people a thumbnail

270

00:10:21,829 --> 00:10:19,279

sketch and go back and tell them what

271

00:10:24,069 --> 00:10:21,839

that what that case is and how you went

272

00:10:25,990 --> 00:10:24,079

about proving it in a scientific way and

273

00:10:27,750 --> 00:10:26,000

i know that's a four hour thing but

274

00:10:29,190 --> 00:10:27,760

we'll just try and

275

00:10:30,790 --> 00:10:29,200

we'll try and shut

276

00:10:32,710 --> 00:10:30,800

close it down as quick as you can so we

277

00:10:35,750 --> 00:10:32,720

can then talk about the new developments

278

00:10:38,150 --> 00:10:35,760

that you're bringing us just lately

279

00:10:40,550 --> 00:10:38,160

yeah absolutely i mean it's um for me

280

00:10:43,030 --> 00:10:40,560

there is no doubt that the

281

00:10:45,430 --> 00:10:43,040

the the case dealt with in exogenesis

282

00:10:48,150 --> 00:10:45,440

hybrid humans you know this uh events of

283

00:10:50,389 --> 00:10:48,160

788 thousand years ago approximately

284

00:10:53,430 --> 00:10:50,399

that these events are uh

285

00:10:55,350 --> 00:10:53,440

without parallel the most important um

286

00:10:58,310 --> 00:10:55,360

sets of events that i've personally

287

00:11:00,470 --> 00:10:58,320

looked into you know so again beckley

288

00:11:01,910 --> 00:11:00,480

teppy and pyramids and you know the

289

00:11:03,829 --> 00:11:01,920

movements of early humans they dealt

290

00:11:04,790 --> 00:11:03,839

with in my obviously previous book which

291

00:11:06,790 --> 00:11:04,800

i think you know is really important

292

00:11:07,990 --> 00:11:06,800

rewriting uh rest out of africa and

293

00:11:09,269 --> 00:11:08,000

people would say well that's massive you

294

00:11:11,590 --> 00:11:09,279

know if you've really done that that's

295

00:11:13,509 --> 00:11:11,600

huge and i'd say well yeah that's quite

296

00:11:15,910 --> 00:11:13,519

important but it's nothing on this so

297

00:11:18,069 --> 00:11:15,920

that gives perhaps some kind of scale as

298

00:11:20,230 --> 00:11:18,079

to how big i think it is i think most

299

00:11:21,990 --> 00:11:20,240

people in certain sciences would say or

300

00:11:24,230 --> 00:11:22,000

rewriting recent out of africa you know

301  
00:11:25,910 --> 00:11:24,240  
that's paradigm changing that's massive

302  
00:11:27,310 --> 00:11:25,920  
i now realize that compared to what i'm

303  
00:11:29,350 --> 00:11:27,320  
doing at the moment that's

304  
00:11:31,590 --> 00:11:29,360  
inconsequential you know yes it's

305  
00:11:35,269 --> 00:11:31,600  
interesting uh but it doesn't really

306  
00:11:37,430 --> 00:11:35,279  
change uh who we are as a species or

307  
00:11:39,509 --> 00:11:37,440  
really where we've come from you know

308  
00:11:42,470 --> 00:11:39,519  
it's uh it's an interesting change to

309  
00:11:44,389 --> 00:11:42,480  
the story but i i think what i'm dealing

310  
00:11:46,389 --> 00:11:44,399  
with now is something that you know it

311  
00:11:49,110 --> 00:11:46,399  
really would change the way we view

312  
00:11:53,030 --> 00:11:49,120  
ourselves and view it change the way we

313  
00:11:55,509 --> 00:11:53,040

view the entire arc of human history

314

00:11:57,670 --> 00:11:55,519

from the very beginning of you know the

315

00:11:59,509 --> 00:11:57,680

this the species that gave rise to homo

316

00:12:02,230 --> 00:11:59,519

sapiens onwards

317

00:12:04,150 --> 00:12:02,240

and he said i can't really think of a

318

00:12:06,230 --> 00:12:04,160

human-centric story that would be bigger

319

00:12:07,670 --> 00:12:06,240

than that you know you can have a cosmic

320

00:12:10,069 --> 00:12:07,680

story that's bigger you know maybe the

321

00:12:11,509 --> 00:12:10,079

rise of the universe or is there god and

322

00:12:13,190 --> 00:12:11,519

you know there's the massive cosmic

323

00:12:15,590 --> 00:12:13,200

questions right but if we're talking

324

00:12:18,230 --> 00:12:15,600

about human beings

325

00:12:20,230 --> 00:12:18,240

then this story for me

326

00:12:22,150 --> 00:12:20,240

is the biggest one imaginable it's the

327

00:12:24,949 --> 00:12:22,160

it's the entire arc of

328

00:12:27,350 --> 00:12:24,959

what made us us uh what was what was the

329

00:12:29,110 --> 00:12:27,360

environment like for us what was

330

00:12:32,790 --> 00:12:29,120

happening at the beginning of our story

331

00:12:34,870 --> 00:12:32,800

that makes uh all of this begin you know

332

00:12:37,990 --> 00:12:34,880

and of course that has

333

00:12:39,190 --> 00:12:38,000

ripple effects all the way down to now

334

00:12:41,269 --> 00:12:39,200

especially related to a lot of the

335

00:12:43,190 --> 00:12:41,279

extraordinary phenomena other topics

336

00:12:45,030 --> 00:12:43,200

ufos aliens experiences people are

337

00:12:47,269 --> 00:12:45,040

claiming they're having with alien type

338

00:12:49,190 --> 00:12:47,279

intelligence all of that stuff

339

00:12:51,750 --> 00:12:49,200

links back into this story the other

340

00:12:52,710 --> 00:12:51,760

thing i would interject because it even

341

00:12:54,790 --> 00:12:52,720

goes

342

00:12:56,629 --> 00:12:54,800

further than that if we could even say

343

00:12:59,350 --> 00:12:56,639

that and that doesn't sound

344

00:13:01,590 --> 00:12:59,360

but it also kind of sets the clock a

345

00:13:03,590 --> 00:13:01,600

little bit both in terms of which is

346

00:13:05,670 --> 00:13:03,600

super important to say okay now the

347

00:13:09,110 --> 00:13:05,680

scale we have to start looking at things

348

00:13:11,590 --> 00:13:09,120

788 000 years ago boom that instantly

349

00:13:13,269 --> 00:13:11,600

puts a different perspective on

350

00:13:14,870 --> 00:13:13,279

you know what we're worried about today

351

00:13:16,470 --> 00:13:14,880

and disclosure in the sense you're like

352

00:13:18,389 --> 00:13:16,480

wait a minute we have to look at a

353

00:13:19,990 --> 00:13:18,399

completely different time scale but the

354

00:13:21,030 --> 00:13:20,000

other thing that resetting the clock

355

00:13:23,430 --> 00:13:21,040

does

356

00:13:26,389 --> 00:13:23,440

in a very kind of uh

357

00:13:29,110 --> 00:13:26,399

amazing way but also kind of a scary way

358

00:13:30,470 --> 00:13:29,120

is it resets where we are in that

359

00:13:33,750 --> 00:13:30,480

timeline

360

00:13:36,470 --> 00:13:33,760

so we are at the verge of

361

00:13:38,470 --> 00:13:36,480

really using silicone to develop not

362

00:13:40,310 --> 00:13:38,480

only computers but maybe a craft you

363

00:13:42,069 --> 00:13:40,320

know we're on the edge of that

364

00:13:44,550 --> 00:13:42,079

we're on the edge of

365

00:13:46,550 --> 00:13:44,560

genetic transhumanism you know isn't

366

00:13:48,230 --> 00:13:46,560

that so even if we look at our history

367

00:13:49,509 --> 00:13:48,240

that we've recorded you know a thousand

368

00:13:50,629 --> 00:13:49,519

years two thousand years five thousand

369

00:13:54,230 --> 00:13:50,639

years whatever you think we have

370

00:13:57,350 --> 00:13:54,240

recorded in history now your work

371

00:13:59,590 --> 00:13:57,360

puts that into a frame of reference that

372

00:14:01,990 --> 00:13:59,600

is exciting and also uncomfortable

373

00:14:03,189 --> 00:14:02,000

because it says you are at the cusp of

374

00:14:04,389 --> 00:14:03,199

something

375

00:14:05,350 --> 00:14:04,399

that

376

00:14:08,069 --> 00:14:05,360

do you get what i'm saying what do you

377

00:14:09,590 --> 00:14:08,079

think about it yeah um i think that the

378

00:14:11,509 --> 00:14:09,600

phrase would come to mind is you know

379

00:14:13,829 --> 00:14:11,519

history never repeats but it certainly

380

00:14:17,269 --> 00:14:13,839

rhymes because i i think that we are in

381

00:14:19,189 --> 00:14:17,279

a kind of a cyclical um temporal flow

382

00:14:22,310 --> 00:14:19,199

but maybe not quite a circle but a kind

383

00:14:25,670 --> 00:14:22,320

of a spiral so that we are seeing

384

00:14:26,870 --> 00:14:25,680

a repeating flavor of events so we're

385

00:14:28,790 --> 00:14:26,880

not necessary and right back to the

386

00:14:30,949 --> 00:14:28,800

beginning of the human story but we're

387

00:14:33,189 --> 00:14:30,959

seeing things that were occurring at the

388

00:14:35,110 --> 00:14:33,199

beginning of the story occurring now as

389

00:14:37,189 --> 00:14:35,120

we reach a kind of a transition point

390

00:14:38,949 --> 00:14:37,199

for humans again you know so we're

391

00:14:41,350 --> 00:14:38,959

dealing with a very ancient human

392

00:14:44,629 --> 00:14:41,360

transition point and now we can see

393

00:14:46,629 --> 00:14:44,639

elements of it a mirrored today as we

394

00:14:48,870 --> 00:14:46,639

enter another kind of transition point

395

00:14:50,710 --> 00:14:48,880

for human beings and you know as you

396

00:14:52,629 --> 00:14:50,720

said some of these the indications of

397

00:14:55,430 --> 00:14:52,639

the same kind of technologies that i'm

398

00:14:57,590 --> 00:14:55,440

looking at in my work we're seeing now

399

00:14:59,670 --> 00:14:57,600

coming into view again

400

00:15:00,550 --> 00:14:59,680

from human hands you know again deal

401  
00:15:03,350 --> 00:15:00,560  
with

402  
00:15:04,230 --> 00:15:03,360  
silica-based technologies you know ai

403  
00:15:07,189 --> 00:15:04,240  
um

404  
00:15:08,389 --> 00:15:07,199  
modifying beings using technologies uh

405  
00:15:09,590 --> 00:15:08,399  
all of these things that you know a

406  
00:15:13,030 --> 00:15:09,600  
tackle there we can see these are

407  
00:15:14,470 --> 00:15:13,040  
becoming really poignant central issues

408  
00:15:16,389 --> 00:15:14,480  
today you know because we've got

409  
00:15:19,189 --> 00:15:16,399  
warnings that ai

410  
00:15:21,590 --> 00:15:19,199  
probably represents the biggest

411  
00:15:23,110 --> 00:15:21,600  
existential threat to humans for a start

412  
00:15:24,470 --> 00:15:23,120  
which you know can feel like elon musk

413  
00:15:26,629 --> 00:15:24,480

who you're not involved in that so you

414

00:15:28,389 --> 00:15:26,639

know that you know we've almost

415

00:15:29,670 --> 00:15:28,399

missed the boat on trying to deal with

416

00:15:32,069 --> 00:15:29,680

that because it's got to a point where

417

00:15:32,949 --> 00:15:32,079

the you know the pandora's box is open

418

00:15:34,870 --> 00:15:32,959

um

419

00:15:36,629 --> 00:15:34,880

nearly all the greatest minds that are

420

00:15:39,269 --> 00:15:36,639

coming out of university today are going

421

00:15:42,150 --> 00:15:39,279

into these fields into ai and into the

422

00:15:45,829 --> 00:15:42,160

technology fields right so there's an

423

00:15:47,749 --> 00:15:45,839

exponential increase in how fast that

424

00:15:49,430 --> 00:15:47,759

topic is going to you know move forward

425

00:15:51,670 --> 00:15:49,440

now because it's no longer case if it's

426  
00:15:55,910 --> 00:15:51,680  
something people saw as a background

427  
00:15:58,470 --> 00:15:55,920  
field now it's a really the front

428  
00:16:00,389 --> 00:15:58,480  
of technology and a friend of mighty is

429  
00:16:02,069 --> 00:16:00,399  
this idea you know ai doing everything

430  
00:16:03,749 --> 00:16:02,079  
right the exact same thing is true when

431  
00:16:05,350 --> 00:16:03,759  
you get into genetics

432  
00:16:08,870 --> 00:16:05,360  
and even when you

433  
00:16:12,310 --> 00:16:08,880  
particularly when you look at hey take

434  
00:16:13,829 --> 00:16:12,320  
genetics take globalism

435  
00:16:15,910 --> 00:16:13,839  
one world government

436  
00:16:18,150 --> 00:16:15,920  
really so on a political level you know

437  
00:16:21,030 --> 00:16:18,160  
if you start thinking along the thinking

438  
00:16:22,790 --> 00:16:21,040

that exogenesis brings us then you start

439

00:16:24,829 --> 00:16:22,800

asking questions like well how much

440

00:16:28,310 --> 00:16:24,839

sense does it make to have

441

00:16:30,389 --> 00:16:28,320

146 governments on a planet versus

442

00:16:33,269 --> 00:16:30,399

so that's it and then you know you look

443

00:16:34,310 --> 00:16:33,279

at the bio weapon gene therapy thing and

444

00:16:37,110 --> 00:16:34,320

you go

445

00:16:40,550 --> 00:16:37,120

whoa you know now different ways to

446

00:16:41,430 --> 00:16:40,560

affect dna you know so we take

447

00:16:43,509 --> 00:16:41,440

like

448

00:16:45,509 --> 00:16:43,519

it's not just about

449

00:16:47,430 --> 00:16:45,519

you know the genetic modification in

450

00:16:49,990 --> 00:16:47,440

cloning and stuff like that it's about

451  
00:16:53,030 --> 00:16:50,000  
this whole burst of technological

452  
00:16:55,509 --> 00:16:53,040  
innovation surrounding genetics and

453  
00:16:57,350 --> 00:16:55,519  
again i'm not putting any value judgment

454  
00:17:00,550 --> 00:16:57,360  
on that for purposes of this

455  
00:17:02,949 --> 00:17:00,560  
conversation what i'm doing is

456  
00:17:05,429 --> 00:17:02,959  
really taking your work and saying how

457  
00:17:08,150 --> 00:17:05,439  
does your work give us a different

458  
00:17:10,309 --> 00:17:08,160  
perspective demand how does it demand

459  
00:17:11,909 --> 00:17:10,319  
that we take a different perspective on

460  
00:17:13,750 --> 00:17:11,919  
all of that

461  
00:17:15,429 --> 00:17:13,760  
well there's a couple of ways but one

462  
00:17:18,870 --> 00:17:15,439  
thing i'd highlight there is you know if

463  
00:17:20,630 --> 00:17:18,880

we look at the way that technologies are

464

00:17:22,710 --> 00:17:20,640

mixing with each other flow into each

465

00:17:25,189 --> 00:17:22,720

other and depend on each other i mean we

466

00:17:26,870 --> 00:17:25,199

can see now that the military machine

467

00:17:28,069 --> 00:17:26,880

you know is very caught up with the ai

468

00:17:29,909 --> 00:17:28,079

developments as well there's always been

469

00:17:31,669 --> 00:17:29,919

talk for years now ai generals i mean

470

00:17:34,630 --> 00:17:31,679

people don't understand what's happening

471

00:17:38,070 --> 00:17:34,640

here but we're we're moving towards ai

472

00:17:40,630 --> 00:17:38,080

that will be in control of drone weapons

473

00:17:41,909 --> 00:17:40,640

hypersonic crafts and at the same time

474

00:17:43,750 --> 00:17:41,919

who do people think that there's going

475

00:17:45,430 --> 00:17:43,760

to be running the genetic engineering do

476

00:17:47,909 --> 00:17:45,440

you really think that's human no so

477

00:17:50,630 --> 00:17:47,919

we're going to have ai doctors ai

478

00:17:53,110 --> 00:17:50,640

scientists ai genetic engineering right

479

00:17:56,230 --> 00:17:53,120

so ai that's in charge of re-engineering

480

00:17:58,230 --> 00:17:56,240

humans controlling our warfare right and

481

00:17:59,909 --> 00:17:58,240

essentially running all of our resources

482

00:18:02,390 --> 00:17:59,919

under this one world government so

483

00:18:04,470 --> 00:18:02,400

you're almost kind of engineering this

484

00:18:07,110 --> 00:18:04,480

god-like ai right so there's this

485

00:18:09,270 --> 00:18:07,120

spiritual dimension to it that it's you

486

00:18:10,470 --> 00:18:09,280

know that we are the jesus machina idea

487

00:18:12,230 --> 00:18:10,480

you know that there's god from the

488

00:18:14,710 --> 00:18:12,240

machine right and it's going to be doing

489

00:18:16,950 --> 00:18:14,720

all of this stuff and if you you arch

490

00:18:19,110 --> 00:18:16,960

back to 788 thousand years ago and

491

00:18:21,350 --> 00:18:19,120

obviously the work i've been doing we

492

00:18:24,230 --> 00:18:21,360

have this kind of story of what seems to

493

00:18:26,470 --> 00:18:24,240

be you know an ai that is connected to

494

00:18:28,150 --> 00:18:26,480

the beginnings of humans the engineering

495

00:18:31,350 --> 00:18:28,160

genetic engineering of humans is linked

496

00:18:33,190 --> 00:18:31,360

into a story of that and warfare um you

497

00:18:34,630 --> 00:18:33,200

know so we have that kind of repeating

498

00:18:35,830 --> 00:18:34,640

theme so though it's not saying it's

499

00:18:37,029 --> 00:18:35,840

exactly the same thing happening because

500

00:18:39,750 --> 00:18:37,039

we're dealing with what seems to be an

501  
00:18:42,150 --> 00:18:39,760  
external ai rather than a human

502  
00:18:45,190 --> 00:18:42,160  
engineered ai but again is this there's

503  
00:18:47,830 --> 00:18:45,200  
a resonance here this idea of of uh

504  
00:18:50,950 --> 00:18:47,840  
super intelligences that are able to

505  
00:18:53,029 --> 00:18:50,960  
come in and you know calculate what they

506  
00:18:55,990 --> 00:18:53,039  
think is best for humans

507  
00:18:58,870 --> 00:18:56,000  
modify us change the planet uh control

508  
00:19:01,110 --> 00:18:58,880  
resources here and you know conduct

509  
00:19:02,710 --> 00:19:01,120  
warfare potentially and so i think we

510  
00:19:04,950 --> 00:19:02,720  
are seeing an int you know an

511  
00:19:06,789 --> 00:19:04,960  
interlinking between the beginning and

512  
00:19:08,390 --> 00:19:06,799  
what could be the end at least an end of

513  
00:19:10,789 --> 00:19:08,400

this chapter

514

00:19:14,070 --> 00:19:10,799

of humanity involving these super

515

00:19:16,549 --> 00:19:14,080

intelligences and the inter interlinking

516

00:19:19,110 --> 00:19:16,559

between technologies between these ais

517

00:19:20,950 --> 00:19:19,120

genetic engineering planetary control

518

00:19:21,990 --> 00:19:20,960

warfare so that's where i see it being

519

00:19:23,669 --> 00:19:22,000

very important so we could get this

520

00:19:25,909 --> 00:19:23,679

warning from the past and an

521

00:19:27,750 --> 00:19:25,919

understanding that just the direction

522

00:19:31,350 --> 00:19:27,760

that this is going in i think it can

523

00:19:33,590 --> 00:19:31,360

make us maybe maybe rethink and take a

524

00:19:34,710 --> 00:19:33,600

moment of pause before we you know steam

525

00:19:36,230 --> 00:19:34,720

ahead

526

00:19:37,510 --> 00:19:36,240

well we'll see about that because

527

00:19:39,510 --> 00:19:37,520

there's a couple of different ways to

528

00:19:41,270 --> 00:19:39,520

interpret the story but i guess

529

00:19:42,789 --> 00:19:41,280

in typical skeptical fashion we've

530

00:19:44,630 --> 00:19:42,799

jumped right to the inside baseball

531

00:19:46,630 --> 00:19:44,640

stuff which is great love it wouldn't do

532

00:19:49,270 --> 00:19:46,640

it any other way but maybe you better

533

00:19:52,950 --> 00:19:49,280

pull back and give people the five

534

00:19:56,870 --> 00:19:52,960

minute thumbnail sketch of what happened

535

00:19:58,789 --> 00:19:56,880

uh how this how this research came to be

536

00:20:00,630 --> 00:19:58,799

yeah i mean it's quite you know it's a

537

00:20:03,590 --> 00:20:00,640

destroying story so the first part of

538

00:20:05,350 --> 00:20:03,600

this is you know i stumbled on a set of

539

00:20:07,669 --> 00:20:05,360

claims so people aren't familiar with

540

00:20:09,750 --> 00:20:07,679

this you know there was a set of claims

541

00:20:13,590 --> 00:20:09,760

made back in the

542

00:20:16,070 --> 00:20:13,600

early 1990s of an interaction between

543

00:20:17,590 --> 00:20:16,080

an aboriginal elder with jerry bostock

544

00:20:19,110 --> 00:20:17,600

and a

545

00:20:20,950 --> 00:20:19,120

well english origin

546

00:20:23,190 --> 00:20:20,960

lady in australia called valerie barrow

547

00:20:25,029 --> 00:20:23,200

who had uh an interaction with what's

548

00:20:27,029 --> 00:20:25,039

considered to be a sacred aboriginal

549

00:20:29,750 --> 00:20:27,039

artifact called a charinga

550

00:20:31,029 --> 00:20:29,760

now this is you know extraordinary and

551  
00:20:32,630 --> 00:20:31,039  
mind-bending stories most people will

552  
00:20:33,990 --> 00:20:32,640  
discount immediately so which i'll

553  
00:20:37,029 --> 00:20:34,000  
understand but we'll come to why they

554  
00:20:39,029 --> 00:20:37,039  
shouldn't and this artifact seemingly

555  
00:20:41,270 --> 00:20:39,039  
was able to transfer information a kind

556  
00:20:43,029 --> 00:20:41,280  
of a history of humanity and these would

557  
00:20:45,029 --> 00:20:43,039  
be traditionally these are an artifact

558  
00:20:47,110 --> 00:20:45,039  
they're kept as a holy of holies a

559  
00:20:49,590 --> 00:20:47,120  
sacred is sacred you know away from the

560  
00:20:51,990 --> 00:20:49,600  
regular people in the indigenous tribes

561  
00:20:54,549 --> 00:20:52,000  
that have law around charingas and

562  
00:20:57,350 --> 00:20:54,559  
there's a few dotted around uh uluru

563  
00:20:59,190 --> 00:20:57,360

area um there's

564

00:21:01,190 --> 00:20:59,200

several different you know nations that

565

00:21:03,350 --> 00:21:01,200

have a history relating to these things

566

00:21:05,029 --> 00:21:03,360

and they say that they were left here in

567

00:21:06,710 --> 00:21:05,039

the the beginning time in what we'd

568

00:21:08,070 --> 00:21:06,720

think of as the dream time or they

569

00:21:09,830 --> 00:21:08,080

called the charinga time or the

570

00:21:11,990 --> 00:21:09,840

outringer time sorry and so these

571

00:21:14,710 --> 00:21:12,000

charingas linked to this altering the

572

00:21:17,430 --> 00:21:14,720

time and altering the beings who were

573

00:21:19,830 --> 00:21:17,440

involved in the creation of animals

574

00:21:21,510 --> 00:21:19,840

humans parts of the landscape so a kind

575

00:21:23,190 --> 00:21:21,520

of you know terraformers genetic

576

00:21:26,470 --> 00:21:23,200

engineers that are non-human

577

00:21:29,110 --> 00:21:26,480

intelligence that were here long ago and

578

00:21:31,750 --> 00:21:29,120

left these artifacts now they say that

579

00:21:33,350 --> 00:21:31,760

these artifacts are in some way alive

580

00:21:36,390 --> 00:21:33,360

that they are actually these outrigger

581

00:21:39,909 --> 00:21:36,400

beings transformed into these permanent

582

00:21:41,990 --> 00:21:39,919

bodies so small portable kind of silica

583

00:21:44,630 --> 00:21:42,000

artifacts before you go there because

584

00:21:45,909 --> 00:21:44,640

it's great but uh to just kind of set

585

00:21:48,149 --> 00:21:45,919

this up

586

00:21:50,470 --> 00:21:48,159

because you said this before but this

587

00:21:53,430 --> 00:21:50,480

story is so dense and so important

588

00:21:56,230 --> 00:21:53,440

you are predisposed to become

589

00:21:59,510 --> 00:21:56,240

super interested in this and then

590

00:22:02,870 --> 00:21:59,520

predisposed to unpeel the onion in the

591

00:22:05,110 --> 00:22:02,880

layers that you did because you had this

592

00:22:07,669 --> 00:22:05,120

incredible background where you had been

593

00:22:09,750 --> 00:22:07,679

exploring these anomalies all over the

594

00:22:12,230 --> 00:22:09,760

world and you had other kind of

595

00:22:13,590 --> 00:22:12,240

non-ordinary experiences that kind of

596

00:22:15,909 --> 00:22:13,600

pushed you along that and we don't have

597

00:22:17,110 --> 00:22:15,919

time to go into all those but just

598

00:22:19,990 --> 00:22:17,120

briefly

599

00:22:22,630 --> 00:22:20,000

you know you are predisposed to when you

600

00:22:25,270 --> 00:22:22,640

hear this and this is also published in

601  
00:22:26,630 --> 00:22:25,280  
a book later on to pursue it so just

602  
00:22:28,230 --> 00:22:26,640  
cover that real briefly because it's

603  
00:22:29,190 --> 00:22:28,240  
important yeah no no that's right

604  
00:22:32,789 --> 00:22:29,200  
because i mean a lot of people would

605  
00:22:35,909 --> 00:22:32,799  
simply disregard that immediately right

606  
00:22:38,390 --> 00:22:35,919  
um so unless you have some reason to

607  
00:22:39,669 --> 00:22:38,400  
think that such a series of events could

608  
00:22:41,350 --> 00:22:39,679  
be possible

609  
00:22:42,870 --> 00:22:41,360  
you probably would go no further than

610  
00:22:45,909 --> 00:22:42,880  
that right it'd just be this strange

611  
00:22:48,149 --> 00:22:45,919  
story that you heard and maybe poo poo

612  
00:22:50,710 --> 00:22:48,159  
it but because i've had yeah years and

613  
00:22:53,430 --> 00:22:50,720

years of uh first of all an interesting

614

00:22:56,549 --> 00:22:53,440

ancient mysteries the anomalies of

615

00:22:58,950 --> 00:22:56,559

science so supernatural experiences uh

616

00:23:01,029 --> 00:22:58,960

you know the whole gamut of strange

617

00:23:02,870 --> 00:23:01,039

phenomena you know first of all i'm very

618

00:23:04,710 --> 00:23:02,880

interested in any account that

619

00:23:06,390 --> 00:23:04,720

has elements like that but secondly i've

620

00:23:08,230 --> 00:23:06,400

had a lot of my own very strange

621

00:23:10,149 --> 00:23:08,240

experiences including you know psychic

622

00:23:13,110 --> 00:23:10,159

phenomena um

623

00:23:15,110 --> 00:23:13,120

an anomalous kinds of events that makes

624

00:23:18,230 --> 00:23:15,120

me predisposed to listen to people and i

625

00:23:20,070 --> 00:23:18,240

don't necessarily believe word for word

626  
00:23:21,990 --> 00:23:20,080  
everything someone tells me you know

627  
00:23:24,310 --> 00:23:22,000  
they tell me a strange experience but i

628  
00:23:25,909 --> 00:23:24,320  
look at it as i'm i believe that

629  
00:23:27,430 --> 00:23:25,919  
they believe something extraordinary has

630  
00:23:28,870 --> 00:23:27,440  
happened to them you know if they have a

631  
00:23:30,310 --> 00:23:28,880  
compelling

632  
00:23:32,470 --> 00:23:30,320  
way of delivering it you know and the

633  
00:23:35,029 --> 00:23:32,480  
story sounds like it could be real i i

634  
00:23:37,190 --> 00:23:35,039  
give people the benefit of the doubt but

635  
00:23:40,070 --> 00:23:37,200  
of course to actually take it on very

636  
00:23:42,070 --> 00:23:40,080  
seriously i want some evidence right so

637  
00:23:43,590 --> 00:23:42,080  
you know then to move from i believe you

638  
00:23:46,070 --> 00:23:43,600

believe and that's your interpretation

639

00:23:47,350 --> 00:23:46,080

of the event to actually i think this is

640

00:23:48,950 --> 00:23:47,360

quite accurate you know there's another

641

00:23:51,350 --> 00:23:48,960

transition that has to occur but

642

00:23:53,350 --> 00:23:51,360

certainly for me to even take it

643

00:23:54,789 --> 00:23:53,360

seriously you know i think it's been

644

00:23:56,149 --> 00:23:54,799

important to have gone through that

645

00:23:57,750 --> 00:23:56,159

journey you know when my partner

646

00:23:58,870 --> 00:23:57,760

obviously she's a shamanic healer you

647

00:24:00,470 --> 00:23:58,880

know i know she's had all kinds of

648

00:24:02,390 --> 00:24:00,480

extraordinary events you know because

649

00:24:04,230 --> 00:24:02,400

you know i live with her

650

00:24:05,909 --> 00:24:04,240

making up stories thinking about her

651  
00:24:08,470 --> 00:24:05,919  
experiences she has you know altered the

652  
00:24:10,470 --> 00:24:08,480  
states of astral experiences um she

653  
00:24:11,830 --> 00:24:10,480  
works as a professional psychic you know

654  
00:24:13,510 --> 00:24:11,840  
on the phone so people say you know cold

655  
00:24:15,909 --> 00:24:13,520  
reading you can't call read people on

656  
00:24:18,230 --> 00:24:15,919  
telephones and you know for emails with

657  
00:24:20,310 --> 00:24:18,240  
accurate you know information um and

658  
00:24:22,710 --> 00:24:20,320  
also still that for me so and i've had

659  
00:24:24,470 --> 00:24:22,720  
my own experiences with uh mediumship i

660  
00:24:26,789 --> 00:24:24,480  
trained for a short period as a

661  
00:24:28,549 --> 00:24:26,799  
spiritual medium uh and i've had sort of

662  
00:24:30,789 --> 00:24:28,559  
psychical experiences so what sounds

663  
00:24:31,990 --> 00:24:30,799

like kind of telepathic type experience

664

00:24:33,190 --> 00:24:32,000

in this you know a transfer of

665

00:24:35,830 --> 00:24:33,200

information from

666

00:24:39,430 --> 00:24:35,840

some kind of intelligence to the mind of

667

00:24:41,190 --> 00:24:39,440

this individual for me is believable

668

00:24:43,110 --> 00:24:41,200

because i've had experiences where

669

00:24:45,990 --> 00:24:43,120

there's been a transfer of information

670

00:24:48,070 --> 00:24:46,000

to my mind from either other people or

671

00:24:50,149 --> 00:24:48,080

from other intelligences so i can

672

00:24:52,390 --> 00:24:50,159

understand these things happen you know

673

00:24:54,230 --> 00:24:52,400

no matter how strange they sound awesome

674

00:24:56,390 --> 00:24:54,240

so now i want to pick back up on the

675

00:24:57,990 --> 00:24:56,400

story because again bruce this is an

676  
00:24:59,830 --> 00:24:58,000  
awesome conversation i love these kind

677  
00:25:01,909 --> 00:24:59,840  
of conversations i don't know if people

678  
00:25:03,909 --> 00:25:01,919  
can follow it i just have to do it the

679  
00:25:05,430 --> 00:25:03,919  
way that seems to organically spring to

680  
00:25:07,590 --> 00:25:05,440  
mind there's such an interesting

681  
00:25:09,510 --> 00:25:07,600  
crossover point here because you're

682  
00:25:11,190 --> 00:25:09,520  
talking about uh

683  
00:25:14,789 --> 00:25:11,200  
one you're talking about shamanic

684  
00:25:17,669 --> 00:25:14,799  
experiences that the aboriginal native

685  
00:25:19,269 --> 00:25:17,679  
people in australia are having and then

686  
00:25:21,350 --> 00:25:19,279  
but you're also then and you're talking

687  
00:25:23,110 --> 00:25:21,360  
about your own experiences of

688  
00:25:25,830 --> 00:25:23,120

communication in this extended

689

00:25:27,750 --> 00:25:25,840

consciousness realm that doesn't involve

690

00:25:30,230 --> 00:25:27,760

technology but then what you're

691

00:25:33,590 --> 00:25:30,240

introducing us to as well is the

692

00:25:36,070 --> 00:25:33,600

possibility that in this case this

693

00:25:37,510 --> 00:25:36,080

communication this non-ordinary

694

00:25:39,909 --> 00:25:37,520

communication

695

00:25:41,269 --> 00:25:39,919

we have to be open to the possibility

696

00:25:42,789 --> 00:25:41,279

that it is

697

00:25:43,750 --> 00:25:42,799

technology

698

00:25:45,669 --> 00:25:43,760

driven

699

00:25:48,470 --> 00:25:45,679

so there's a real interesting crossover

700

00:25:50,710 --> 00:25:48,480

point but jump over to that other side

701  
00:25:54,830 --> 00:25:50,720  
and tell us why you are willing to

702  
00:25:57,830 --> 00:25:54,840  
speculate that this particular charinga

703  
00:25:59,990 --> 00:25:57,840  
communication had a technology

704  
00:26:02,310 --> 00:26:00,000  
basis to it

705  
00:26:04,149 --> 00:26:02,320  
sure you know they the thing really

706  
00:26:05,990 --> 00:26:04,159  
stood out to me is that there is a you

707  
00:26:07,830 --> 00:26:06,000  
know in this field of sort of space

708  
00:26:09,029 --> 00:26:07,840  
sciences you know there's been a lot of

709  
00:26:11,510 --> 00:26:09,039  
um

710  
00:26:13,510 --> 00:26:11,520  
speculative thinking on what what would

711  
00:26:15,029 --> 00:26:13,520  
we look for from an alien intelligence

712  
00:26:17,029 --> 00:26:15,039  
you know what might they be doing that

713  
00:26:18,870 --> 00:26:17,039

we could um kind of find

714

00:26:20,789 --> 00:26:18,880

some compelling evidence of them and one

715

00:26:23,110 --> 00:26:20,799

of them one of the suggestions is that

716

00:26:25,029 --> 00:26:23,120

you know out there intelligences may be

717

00:26:26,630 --> 00:26:25,039

exploring the cosmos using their

718

00:26:28,230 --> 00:26:26,640

technologies you know the same way that

719

00:26:30,230 --> 00:26:28,240

we are just beginning to you know we

720

00:26:32,070 --> 00:26:30,240

want to send out solar sails and we're

721

00:26:33,909 --> 00:26:32,080

sending out micro probes the size of

722

00:26:36,149 --> 00:26:33,919

mobile phones is a new plan to explore

723

00:26:37,510 --> 00:26:36,159

planets and oceans right so we can

724

00:26:38,870 --> 00:26:37,520

imagine that there's probably

725

00:26:40,710 --> 00:26:38,880

civilizations out there that have done

726

00:26:42,950 --> 00:26:40,720

similar things and and if they've had

727

00:26:46,149 --> 00:26:42,960

enough time that they could send quite

728

00:26:48,070 --> 00:26:46,159

advanced robots and ai probes and all

729

00:26:49,590 --> 00:26:48,080

the rest out into space running their

730

00:26:52,630 --> 00:26:49,600

own kind of search for extraterrestrial

731

00:26:55,110 --> 00:26:52,640

intelligence utilizing these autonomous

732

00:26:57,909 --> 00:26:55,120

robots you know autonomous ai

733

00:27:00,230 --> 00:26:57,919

now this is of course speculative but it

734

00:27:01,909 --> 00:27:00,240

makes a lot of sense so we have a class

735

00:27:04,630 --> 00:27:01,919

of objects they call some brace world

736

00:27:07,029 --> 00:27:04,640

probes for the scientist bracelet ronald

737

00:27:07,750 --> 00:27:07,039

bracewell uh there's also

738

00:27:10,390 --> 00:27:07,760

the

739

00:27:11,590 --> 00:27:10,400

uh von neumann probes which

740

00:27:13,830 --> 00:27:11,600

familiar von neumann a lot of people say

741

00:27:16,230 --> 00:27:13,840

von neumann was linked into the ufo

742

00:27:18,070 --> 00:27:16,240

program and into very deep black

743

00:27:19,590 --> 00:27:18,080

projects as well connected to the idea

744

00:27:20,470 --> 00:27:19,600

of there being some kind of intelligence

745

00:27:22,389 --> 00:27:20,480

interacting with us which is quite

746

00:27:24,310 --> 00:27:22,399

compelling interesting in itself but

747

00:27:26,230 --> 00:27:24,320

these two guys both theorized that there

748

00:27:28,149 --> 00:27:26,240

may be these kind of autonomous ai

749

00:27:31,190 --> 00:27:28,159

probes that could go out explore the

750

00:27:32,710 --> 00:27:31,200

universe would be essentially immortal

751  
00:27:35,029 --> 00:27:32,720  
maybe even have this what they call them

752  
00:27:36,630 --> 00:27:35,039  
self-repair that's volume self-repair so

753  
00:27:39,190 --> 00:27:36,640  
they can fix themselves if they're

754  
00:27:40,630 --> 00:27:39,200  
damaged uh mine planet services build

755  
00:27:43,510 --> 00:27:40,640  
more copies of themselves all sorts of

756  
00:27:45,990 --> 00:27:43,520  
ideas around this kind of um brace for a

757  
00:27:47,669 --> 00:27:46,000  
probe idea now there's also a particular

758  
00:27:49,909 --> 00:27:47,679  
class of brace world probe that is

759  
00:27:52,789 --> 00:27:49,919  
called a sentinel probe and so these

760  
00:27:54,950 --> 00:27:52,799  
would be sent out to sit either you know

761  
00:27:57,669 --> 00:27:54,960  
on a surface of a planet or perhaps in

762  
00:27:58,710 --> 00:27:57,679  
orbit and could record any information

763  
00:28:00,149 --> 00:27:58,720

you know record anything that's

764

00:28:01,350 --> 00:28:00,159

happening in the biosphere so they

765

00:28:03,590 --> 00:28:01,360

detect an interesting planet with a

766

00:28:07,510 --> 00:28:03,600

biosphere say let's say for example like

767

00:28:10,630 --> 00:28:07,520

earth earth has had a visible detectable

768

00:28:12,870 --> 00:28:10,640

oxygen signature for two billion years

769

00:28:15,510 --> 00:28:12,880

so if anyone's out there is looking for

770

00:28:18,070 --> 00:28:15,520

biospheres that oxygen signature would

771

00:28:20,230 --> 00:28:18,080

be really interesting so we can imagine

772

00:28:21,990 --> 00:28:20,240

many civilizations sending probes

773

00:28:23,750 --> 00:28:22,000

towards earth over two billion years

774

00:28:26,230 --> 00:28:23,760

that's plenty of time so if any of the

775

00:28:28,870 --> 00:28:26,240

skeptics say oh it's a long way two

776

00:28:30,070 --> 00:28:28,880

billion years is a long time right so

777

00:28:31,750 --> 00:28:30,080

there's been plenty of time for these

778

00:28:33,430 --> 00:28:31,760

probes to arrive here a brace or

779

00:28:36,310 --> 00:28:33,440

sentinel probe then could just sit and

780

00:28:38,870 --> 00:28:36,320

wait and if a you know a civilization if

781

00:28:41,990 --> 00:28:38,880

you know life evolves and a civilization

782

00:28:44,549 --> 00:28:42,000

forms that these could be in theory you

783

00:28:47,590 --> 00:28:44,559

know instructed to eventually make

784

00:28:50,230 --> 00:28:47,600

contact with a civilization and act as

785

00:28:52,870 --> 00:28:50,240

the inter-misery of the original alien

786

00:28:54,630 --> 00:28:52,880

civilization that sounds kind of sci-fi

787

00:28:56,070 --> 00:28:54,640

but it's also a lot you know logic to a

788

00:28:57,909 --> 00:28:56,080

lot of sense and we can kind of see

789

00:28:59,750 --> 00:28:57,919

ourselves humans heading in the

790

00:29:02,149 --> 00:28:59,760

direction of doing these kinds of

791

00:29:04,149 --> 00:29:02,159

projects ourselves right when we're not

792

00:29:04,950 --> 00:29:04,159

far off doing this

793

00:29:06,789 --> 00:29:04,960

so

794

00:29:08,549 --> 00:29:06,799

when you then hear about an artifact

795

00:29:09,590 --> 00:29:08,559

sort of silica small artifact that's

796

00:29:11,269 --> 00:29:09,600

probably

797

00:29:13,669 --> 00:29:11,279

is linked to the idea beginnings of

798

00:29:15,909 --> 00:29:13,679

times very ancient is sitting there you

799

00:29:18,630 --> 00:29:15,919

know somewhere in australia and it

800

00:29:20,389 --> 00:29:18,640

activates and makes contact with people

801  
00:29:21,669 --> 00:29:20,399  
and starts telling them in fact actually

802  
00:29:23,510 --> 00:29:21,679  
one of the theories is that these things

803  
00:29:25,350 --> 00:29:23,520  
might have a whole history of humanity

804  
00:29:27,350 --> 00:29:25,360  
and when they make contact share this

805  
00:29:30,070 --> 00:29:27,360  
with us and so when you hear a story

806  
00:29:31,830 --> 00:29:30,080  
where that's exactly what happens

807  
00:29:33,830 --> 00:29:31,840  
that's kind of like the alarm bells

808  
00:29:36,070 --> 00:29:33,840  
should start ringing also let me go back

809  
00:29:40,230 --> 00:29:36,080  
and make sure we

810  
00:29:41,990 --> 00:29:40,240  
and we add to the fact of the mythology

811  
00:29:44,549 --> 00:29:42,000  
air quotes on that one

812  
00:29:47,750 --> 00:29:44,559  
surrounded with this object

813  
00:29:50,070 --> 00:29:47,760

it is sacred of sacred uh the other

814

00:29:52,230 --> 00:29:50,080

thing you said super interesting that i

815

00:29:54,710 --> 00:29:52,240

think relates to this story maybe in a

816

00:29:56,950 --> 00:29:54,720

way that we'll get to is that

817

00:29:58,389 --> 00:29:56,960

don't tell everybody about this because

818

00:30:01,029 --> 00:29:58,399

they won't get it

819

00:30:03,110 --> 00:30:01,039

is that again when you said rhyme you

820

00:30:06,549 --> 00:30:03,120

know does that rhyme with our current

821

00:30:08,789 --> 00:30:06,559

age when we have people who think the

822

00:30:10,870 --> 00:30:08,799

world is flat you know we have people

823

00:30:13,590 --> 00:30:10,880

that drive around in their car

824

00:30:16,470 --> 00:30:13,600

by themselves with a mask on there's

825

00:30:19,669 --> 00:30:16,480

people there's a gulf that's getting

826

00:30:23,190 --> 00:30:19,679

wider and wider between people who are

827

00:30:25,510 --> 00:30:23,200

able to kind of process this kind of

828

00:30:28,630 --> 00:30:25,520

advanced knowledge and sort it out and

829

00:30:31,110 --> 00:30:28,640

those who just who just can't and so i'd

830

00:30:32,230 --> 00:30:31,120

wonder from one from a

831

00:30:34,630 --> 00:30:32,240

you could kind of take the whole thing

832

00:30:37,029 --> 00:30:34,640

as mythology but also from a practical

833

00:30:39,669 --> 00:30:37,039

standpoint wouldn't that be the way that

834

00:30:42,389 --> 00:30:39,679

you would handle advanced information

835

00:30:44,789 --> 00:30:42,399

you'd say look you know just kind of be

836

00:30:46,710 --> 00:30:44,799

careful who you share this with kind of

837

00:30:50,230 --> 00:30:46,720

thing and that's the

838

00:30:51,029 --> 00:30:50,240

story that comes along with this object

839

00:30:55,269 --> 00:30:51,039

yeah

840

00:30:57,509 --> 00:30:55,279

know carl sagan kind of warned of that

841

00:31:00,870 --> 00:30:57,519

you know with a a population that has

842

00:31:02,149 --> 00:31:00,880

been essentially dumbed down and is no

843

00:31:04,389 --> 00:31:02,159

longer

844

00:31:06,789 --> 00:31:04,399

everyone but the the direction of travel

845

00:31:08,070 --> 00:31:06,799

is the drumming down of the population

846

00:31:10,950 --> 00:31:08,080

and so they have

847

00:31:12,630 --> 00:31:10,960

scientific illiteracy and so that they

848

00:31:14,710 --> 00:31:12,640

no longer stand the technologies that

849

00:31:16,470 --> 00:31:14,720

are being brought out and that suits

850

00:31:18,149 --> 00:31:16,480

the political elite you know that suits

851  
00:31:20,310 --> 00:31:18,159  
the governing league that because that

852  
00:31:22,389 --> 00:31:20,320  
allows for anyone who does understand

853  
00:31:24,230 --> 00:31:22,399  
these things to come along and take

854  
00:31:26,630 --> 00:31:24,240  
control and to manipulate and take

855  
00:31:27,909 --> 00:31:26,640  
advantage so we're in a situation where

856  
00:31:30,230 --> 00:31:27,919  
a very small number of people would

857  
00:31:32,389 --> 00:31:30,240  
really understand uh what the

858  
00:31:34,310 --> 00:31:32,399  
capabilities of our technologies are and

859  
00:31:35,750 --> 00:31:34,320  
this direction of travel and that you

860  
00:31:37,110 --> 00:31:35,760  
know how this sort of scenario would

861  
00:31:39,029 --> 00:31:37,120  
make sense a lot of people just sound

862  
00:31:40,630 --> 00:31:39,039  
like oh you know absolutely bonkers but

863  
00:31:43,029 --> 00:31:40,640

there would be people sitting in you

864

00:31:45,190 --> 00:31:43,039

know black projects and in top

865

00:31:46,549 --> 00:31:45,200

universities who absolutely are looking

866

00:31:48,230 --> 00:31:46,559

for these things you know thinking

867

00:31:50,149 --> 00:31:48,240

that's what we should be seeing let me

868

00:31:52,070 --> 00:31:50,159

just interject one more point because i

869

00:31:53,990 --> 00:31:52,080

think this is also where

870

00:31:56,470 --> 00:31:54,000

this important research that you're

871

00:31:59,350 --> 00:31:56,480

doing doing takes us because if we are

872

00:32:02,230 --> 00:31:59,360

going to use this as a way to step back

873

00:32:05,590 --> 00:32:02,240

and re-examine everything i think i

874

00:32:08,870 --> 00:32:05,600

immediately go to the evil black budget

875

00:32:11,190 --> 00:32:08,880

government kind of thing and i say okay

876

00:32:13,110 --> 00:32:11,200

but really isn't that a natural

877

00:32:15,830 --> 00:32:13,120

consequence of

878

00:32:17,750 --> 00:32:15,840

what you would have to do right you you

879

00:32:20,149 --> 00:32:17,760

have this gulf like

880

00:32:21,990 --> 00:32:20,159

that like you're saying the dumbing down

881

00:32:24,470 --> 00:32:22,000

forget about dumbing down i don't know

882

00:32:26,470 --> 00:32:24,480

that there really is that that evidence

883

00:32:28,149 --> 00:32:26,480

that we've been significantly dumbed

884

00:32:30,389 --> 00:32:28,159

down particularly if you look at a

885

00:32:32,870 --> 00:32:30,399

longer lens of history you know we're

886

00:32:36,070 --> 00:32:32,880

certainly much more advanced than people

887

00:32:38,389 --> 00:32:36,080

100 years ago 200 years ago so

888

00:32:40,630 --> 00:32:38,399

maybe this is again the timeline thing

889

00:32:42,789 --> 00:32:40,640

maybe this is the natural progression

890

00:32:45,669 --> 00:32:42,799

and maybe the natural progression is

891

00:32:49,590 --> 00:32:45,679

that gap just gets loud uh larger and

892

00:32:53,669 --> 00:32:49,600

larger and in order to effectively

893

00:32:57,029 --> 00:32:53,679

protect civilization you naturally go to

894

00:32:58,230 --> 00:32:57,039

black budget secret projects and uh

895

00:33:01,269 --> 00:32:58,240

hidden democrat you know forget

896

00:33:03,190 --> 00:33:01,279

democracy just kind of rule by

897

00:33:05,110 --> 00:33:03,200

the elites kind of thing i'm not saying

898

00:33:07,509 --> 00:33:05,120

i want that i'm not saying i vote in

899

00:33:10,470 --> 00:33:07,519

favor of that i'm saying doesn't this

900

00:33:13,190 --> 00:33:10,480

research cause us to maybe say wow how

901  
00:33:14,470 --> 00:33:13,200  
would how did they do it how would we do

902  
00:33:16,389 --> 00:33:14,480  
it differently kind of thing you have

903  
00:33:17,509 --> 00:33:16,399  
any thoughts on that

904  
00:33:19,269 --> 00:33:17,519  
yeah i mean it's you know it's

905  
00:33:20,470 --> 00:33:19,279  
interesting the

906  
00:33:21,990 --> 00:33:20,480  
the angler

907  
00:33:24,389 --> 00:33:22,000  
how could we have a better model and you

908  
00:33:25,909 --> 00:33:24,399  
know is that the best model for humanity

909  
00:33:29,029 --> 00:33:25,919  
because you know

910  
00:33:30,750 --> 00:33:29,039  
i do recognize and again from

911  
00:33:34,149 --> 00:33:30,760  
researching widely you know in a

912  
00:33:36,710 --> 00:33:34,159  
multi-disciplinary kind of fashion that

913  
00:33:38,149 --> 00:33:36,720

not all human brains are the same now

914

00:33:39,750 --> 00:33:38,159

i'm not gonna there's no you can't say

915

00:33:42,630 --> 00:33:39,760

there's any racial group or something

916

00:33:44,190 --> 00:33:42,640

others do but we know now that across

917

00:33:46,870 --> 00:33:44,200

the board you have

918

00:33:50,149 --> 00:33:46,880

neurodiversity right you know i'm a

919

00:33:51,590 --> 00:33:50,159

person with dyslexia and asperger traits

920

00:33:53,430 --> 00:33:51,600

so i'm not the same as someone who

921

00:33:54,950 --> 00:33:53,440

doesn't have dyslexia that there are

922

00:33:56,549 --> 00:33:54,960

differences you know intellectual

923

00:33:59,029 --> 00:33:56,559

different differences because of

924

00:34:01,669 --> 00:33:59,039

structures in the brain there are people

925

00:34:03,750 --> 00:34:01,679

who are more capable of big picture

926  
00:34:06,950 --> 00:34:03,760  
thinking and of understanding the

927  
00:34:08,950 --> 00:34:06,960  
interlinking of subject now if

928  
00:34:11,270 --> 00:34:08,960  
some of those people decided that

929  
00:34:13,990 --> 00:34:11,280  
perhaps they felt they knew best and

930  
00:34:16,230 --> 00:34:14,000  
maybe in some ways they did know better

931  
00:34:18,389 --> 00:34:16,240  
than a lot of people you could imagine

932  
00:34:20,710 --> 00:34:18,399  
how they might work together to try and

933  
00:34:22,629 --> 00:34:20,720  
run the world in a certain way where

934  
00:34:26,230 --> 00:34:22,639  
they genuinely feel that they were

935  
00:34:27,750 --> 00:34:26,240  
uniquely qualified and capable to do it

936  
00:34:30,790 --> 00:34:27,760  
because they can see there are people

937  
00:34:33,270 --> 00:34:30,800  
who are incapable of that level of big

938  
00:34:36,069 --> 00:34:33,280

picture thinking now it doesn't mean

939

00:34:38,869 --> 00:34:36,079

they've got it right but the underlying

940

00:34:40,869 --> 00:34:38,879

idea is actually kind of logical makes

941

00:34:43,510 --> 00:34:40,879

sense i can definitely see how it

942

00:34:45,829 --> 00:34:43,520

happens i can understand how networks of

943

00:34:47,349 --> 00:34:45,839

people form you know and we have these

944

00:34:49,669 --> 00:34:47,359

kind of secret societies where they

945

00:34:51,669 --> 00:34:49,679

carry information that they feel

946

00:34:53,909 --> 00:34:51,679

most people won't make use of and won't

947

00:34:56,470 --> 00:34:53,919

even understand but though at some point

948

00:34:58,630 --> 00:34:56,480

will be invaluable to their networks and

949

00:35:00,870 --> 00:34:58,640

so it's transitioned through to now and

950

00:35:02,950 --> 00:35:00,880

as things change in our society they can

951  
00:35:04,790 --> 00:35:02,960  
refer to that and say well that that's

952  
00:35:06,310 --> 00:35:04,800  
useful now we have the technology to

953  
00:35:08,630 --> 00:35:06,320  
make use of that and that could help

954  
00:35:11,349 --> 00:35:08,640  
form the world in a certain way that we

955  
00:35:12,150 --> 00:35:11,359  
think is for the best for the species

956  
00:35:15,109 --> 00:35:12,160  
right

957  
00:35:16,630 --> 00:35:15,119  
now the best of the species doesn't mean

958  
00:35:18,150 --> 00:35:16,640  
very nice things for all the individuals

959  
00:35:19,589 --> 00:35:18,160  
and that that's the problem you end up

960  
00:35:21,190 --> 00:35:19,599  
in a decision where

961  
00:35:22,870 --> 00:35:21,200  
you know it's a bit like the spock when

962  
00:35:24,310 --> 00:35:22,880  
they say you know for the greater good

963  
00:35:25,829 --> 00:35:24,320

you know that sometimes what's it the

964

00:35:27,670 --> 00:35:25,839

needs of the many outweigh the needs of

965

00:35:28,870 --> 00:35:27,680

the few right and that's really

966

00:35:30,790 --> 00:35:28,880

problematic morally that's really

967

00:35:32,390 --> 00:35:30,800

problematic because what about the few

968

00:35:35,030 --> 00:35:32,400

aren't they equally important as the

969

00:35:37,430 --> 00:35:35,040

many and so you know you end up with

970

00:35:39,750 --> 00:35:37,440

this thing of it is it ever okay to sort

971

00:35:41,910 --> 00:35:39,760

of say well you know some people are

972

00:35:43,990 --> 00:35:41,920

gonna have to be thrown to the fire to

973

00:35:45,510 --> 00:35:44,000

make this perfect world and i think

974

00:35:46,870 --> 00:35:45,520

that's the situation we're in it is

975

00:35:48,230 --> 00:35:46,880

complex i know people don't like to

976

00:35:49,589 --> 00:35:48,240

think about that these people may

977

00:35:51,190 --> 00:35:49,599

generally think they're doing the best

978

00:35:54,310 --> 00:35:51,200

and because they feel they're uniquely

979

00:35:56,230 --> 00:35:54,320

qualified i i just uh and that that's

980

00:35:58,310 --> 00:35:56,240

also true from a scientific perspective

981

00:36:00,950 --> 00:35:58,320

and a lot of people i think who are uber

982

00:36:02,950 --> 00:36:00,960

logical rational and super smart can get

983

00:36:05,910 --> 00:36:02,960

to the same place just interviewed dr

984

00:36:07,990 --> 00:36:05,920

dean rayden love dr dean rayden so

985

00:36:10,390 --> 00:36:08,000

respect his work he's been on this show

986

00:36:12,470 --> 00:36:10,400

for 15 years and he comes on and he

987

00:36:14,150 --> 00:36:12,480

gives the transhumanism speech he's the

988

00:36:15,030 --> 00:36:14,160

guy who more than anyone else has kind

989

00:36:18,550 --> 00:36:15,040

of

990

00:36:21,750 --> 00:36:18,560

exposed the consciousness as an illusion

991

00:36:22,630 --> 00:36:21,760

uh conspiracy materialist science you

992

00:36:25,510 --> 00:36:22,640

know

993

00:36:27,750 --> 00:36:25,520

he his experiments six sigma results

994

00:36:29,430 --> 00:36:27,760

replicated around the world completely

995

00:36:32,150 --> 00:36:29,440

dispelled that but where does he come to

996

00:36:35,270 --> 00:36:32,160

at the end he goes hey uh i i you know

997

00:36:38,230 --> 00:36:35,280

genetic genetic modification in order to

998

00:36:40,710 --> 00:36:38,240

get us towards a hive mind like bees

999

00:36:43,030 --> 00:36:40,720

maybe that's not such a bad thing

1000

00:36:44,310 --> 00:36:43,040

and i played that and i was like

1001

00:36:47,510 --> 00:36:44,320

dean

1002

00:36:49,510 --> 00:36:47,520

but

1003

00:36:51,270 --> 00:36:49,520

so the point is whether you agree with

1004

00:36:53,270 --> 00:36:51,280

dean or whether you don't agree with

1005

00:36:54,470 --> 00:36:53,280

dean and i don't agree with dean for a

1006

00:36:57,430 --> 00:36:54,480

lot of other reasons

1007

00:36:59,589 --> 00:36:57,440

that uh what what to make of this from a

1008

00:37:03,349 --> 00:36:59,599

spiritual level i think has to come into

1009

00:37:06,390 --> 00:37:03,359

play but the point is super smart guy

1010

00:37:07,990 --> 00:37:06,400

super plugged in guy he's gotten

1011

00:37:10,069 --> 00:37:08,000

millions and probably hundreds of

1012

00:37:12,710 --> 00:37:10,079

millions of dollars behind him for this

1013

00:37:16,310 --> 00:37:12,720

latest startup that he's doing

1014

00:37:19,270 --> 00:37:16,320

that will actually operationalize

1015

00:37:21,750 --> 00:37:19,280

genetic engineering through the job

1016

00:37:23,750 --> 00:37:21,760

through a different job but a job that

1017

00:37:25,510 --> 00:37:23,760

will make you more psychic that will

1018

00:37:28,710 --> 00:37:25,520

give you a hive mind

1019

00:37:31,030 --> 00:37:28,720

this is not this is not sci-fi folks go

1020

00:37:33,030 --> 00:37:31,040

listen to the interview

1021

00:37:35,510 --> 00:37:33,040

and go look at the fact that the guy is

1022

00:37:38,870 --> 00:37:35,520

at point moved from northern california

1023

00:37:40,550 --> 00:37:38,880

to bise to boise idaho to join forces

1024

00:37:44,390 --> 00:37:40,560

with another guy who's been doing this

1025

00:37:46,150 --> 00:37:44,400

research and they have a a biogenetic

1026

00:37:48,150 --> 00:37:46,160

startup i mean

1027

00:37:51,030 --> 00:37:48,160

this is what we're talking about here

1028

00:37:54,550 --> 00:37:51,040

bruce how this stuff intersects so with

1029

00:37:56,790 --> 00:37:54,560

that let's leap back into the story

1030

00:37:59,190 --> 00:37:56,800

hopefully people have a context of you

1031

00:38:02,310 --> 00:37:59,200

hear now that you're hearing this you're

1032

00:38:03,990 --> 00:38:02,320

hearing the tringa you're hearing uh you

1033

00:38:06,870 --> 00:38:04,000

know

1034

00:38:08,790 --> 00:38:06,880

so how do you go about here's the here's

1035

00:38:10,390 --> 00:38:08,800

the cool thing about your story how do

1036

00:38:11,829 --> 00:38:10,400

you go about

1037

00:38:13,670 --> 00:38:11,839

switching hats

1038

00:38:16,630 --> 00:38:13,680

putting on your science hat and say wait

1039

00:38:21,030 --> 00:38:16,640

a minute here's something i can sink my

1040

00:38:23,270 --> 00:38:21,040

teeth into as a scientist

1041

00:38:25,510 --> 00:38:23,280

yeah i mean it was um quite a transition

1042

00:38:27,349 --> 00:38:25,520

really because you know you go from

1043

00:38:28,870 --> 00:38:27,359

having some level of information that

1044

00:38:31,109 --> 00:38:28,880

suggests something may really have

1045

00:38:33,109 --> 00:38:31,119

happened now that's personally

1046

00:38:35,670 --> 00:38:33,119

compelling but if if you're going to go

1047

00:38:38,630 --> 00:38:35,680

out and say to people this extraordinary

1048

00:38:41,109 --> 00:38:38,640

thing really happened i mean that takes

1049

00:38:43,430 --> 00:38:41,119

a a whole different level of supporting

1050

00:38:45,270 --> 00:38:43,440

evidence and knowledge of a topic area

1051  
00:38:48,230 --> 00:38:45,280  
because of course you're going at some

1052  
00:38:50,550 --> 00:38:48,240  
point have to stand and defend your

1053  
00:38:51,829 --> 00:38:50,560  
claims against someone who is an expert

1054  
00:38:54,150 --> 00:38:51,839  
in some of the topics that you're

1055  
00:38:55,510 --> 00:38:54,160  
dealing with you know in a level where

1056  
00:38:57,190 --> 00:38:55,520  
you know they've maybe spent 20 years

1057  
00:38:58,710 --> 00:38:57,200  
looking at saying whether it's genetics

1058  
00:39:01,510 --> 00:38:58,720  
tech type somebody who spent their

1059  
00:39:03,589 --> 00:39:01,520  
career on that now at some point they're

1060  
00:39:06,630 --> 00:39:03,599  
going to say hang on a minute what's the

1061  
00:39:08,470 --> 00:39:06,640  
earth is he saying so unless you have a

1062  
00:39:10,950 --> 00:39:08,480  
very very deep knowledge you realize

1063  
00:39:13,430 --> 00:39:10,960

that you're only going to kind of bring

1064

00:39:15,349 --> 00:39:13,440

on board the most open-minded people who

1065

00:39:17,349 --> 00:39:15,359

really already kind of thought the same

1066

00:39:18,950 --> 00:39:17,359

thing as you right they were already

1067

00:39:21,030 --> 00:39:18,960

convinced like yeah but we totally agree

1068

00:39:22,870 --> 00:39:21,040

i always knew it was that

1069

00:39:24,310 --> 00:39:22,880

well have you really convinced someone

1070

00:39:25,829 --> 00:39:24,320

then if they always knew it was that or

1071

00:39:29,109 --> 00:39:25,839

they just think he's all you know he's

1072

00:39:30,710 --> 00:39:29,119

come on board with me now so so i really

1073

00:39:32,630 --> 00:39:30,720

had to realize that that's not good

1074

00:39:34,230 --> 00:39:32,640

enough to have those people come on

1075

00:39:36,069 --> 00:39:34,240

board because they you know they don't

1076

00:39:38,630 --> 00:39:36,079

need any evidence from you really

1077

00:39:40,790 --> 00:39:38,640

so to get to those other people who

1078

00:39:43,190 --> 00:39:40,800

would benefit from that understanding

1079

00:39:44,870 --> 00:39:43,200

and who you feel it would be important

1080

00:39:46,390 --> 00:39:44,880

to have them look at it

1081

00:39:48,550 --> 00:39:46,400

you need to be able to drill down and

1082

00:39:51,270 --> 00:39:48,560

find okay so where is the most solid

1083

00:39:53,750 --> 00:39:51,280

evidence that supports my convictions or

1084

00:39:55,109 --> 00:39:53,760

my you know my direction of thinking

1085

00:39:59,030 --> 00:39:55,119

and that that

1086

00:40:01,270 --> 00:39:59,040

took really a deep dive going into

1087

00:40:04,150 --> 00:40:01,280

dozens and dozens of you know scientific

1088

00:40:05,670 --> 00:40:04,160

studies on these topics ranging from the

1089

00:40:07,349 --> 00:40:05,680

particularly on the tech type topic but

1090

00:40:09,030 --> 00:40:07,359

yes in genetic engineering you know

1091

00:40:11,990 --> 00:40:09,040

genetic engineering the genetics of

1092

00:40:13,270 --> 00:40:12,000

human beings you know paleogenomics

1093

00:40:15,430 --> 00:40:13,280

then of course into you know look

1094

00:40:17,670 --> 00:40:15,440

reading papers on ai you know the

1095

00:40:19,030 --> 00:40:17,680

theories of these graceful probes keep

1096

00:40:20,630 --> 00:40:19,040

pulling you in these other directions

1097

00:40:22,550 --> 00:40:20,640

and don't don't give you a chance to

1098

00:40:24,870 --> 00:40:22,560

kind of give this thumbnail sketch that

1099

00:40:27,990 --> 00:40:24,880

i know people hey if you're not familiar

1100

00:40:30,150 --> 00:40:28,000

with this work sorry you gotta go

1101  
00:40:31,430 --> 00:40:30,160  
read the book which you gotta do and

1102  
00:40:33,349 --> 00:40:31,440  
then you gotta go

1103  
00:40:35,270 --> 00:40:33,359  
watch the video that we did and then

1104  
00:40:37,510 --> 00:40:35,280  
this is like the next level kind of

1105  
00:40:38,630 --> 00:40:37,520  
stuff and i'm not gonna apologize for

1106  
00:40:41,990 --> 00:40:38,640  
that but

1107  
00:40:45,430 --> 00:40:42,000  
thumbnail sketch remind people the three

1108  
00:40:48,470 --> 00:40:45,440  
the three things you decided to focus on

1109  
00:40:52,390 --> 00:40:48,480  
that because again as a scientist

1110  
00:40:55,270 --> 00:40:52,400  
even knowing what questions to ask is is

1111  
00:40:56,550 --> 00:40:55,280  
so important so difficult to do so you

1112  
00:40:58,870 --> 00:40:56,560  
said okay

1113  
00:41:01,670 --> 00:40:58,880

here are three things that i might

1114

00:41:04,550 --> 00:41:01,680

should be able to find if they're real

1115

00:41:06,950 --> 00:41:04,560

if i'm going to test my own theory in a

1116

00:41:09,430 --> 00:41:06,960

way that you just said i i could really

1117

00:41:11,109 --> 00:41:09,440

convince people what are the three give

1118

00:41:13,430 --> 00:41:11,119

us at the highlight before we go into

1119

00:41:16,710 --> 00:41:13,440

them dive into them sure absolutely so

1120

00:41:18,150 --> 00:41:16,720

amongst the claims from this account

1121

00:41:19,990 --> 00:41:18,160

were

1122

00:41:24,150 --> 00:41:20,000

this idea that first of all they'd been

1123

00:41:26,150 --> 00:41:24,160

an enormous craft a silica ai craft a

1124

00:41:27,589 --> 00:41:26,160

conscious craft flight that had arrived

1125

00:41:28,630 --> 00:41:27,599

here you know hundreds of thousands of

1126  
00:41:31,589 --> 00:41:28,640  
years ago

1127  
00:41:33,910 --> 00:41:31,599  
and that had been destroyed in orbit

1128  
00:41:36,150 --> 00:41:33,920  
showering down molten silica material

1129  
00:41:37,990 --> 00:41:36,160  
across the planet so that stood out i

1130  
00:41:39,670 --> 00:41:38,000  
thought that's big that's a big event

1131  
00:41:41,750 --> 00:41:39,680  
you know there could be some traces of

1132  
00:41:44,470 --> 00:41:41,760  
that so that was like number one

1133  
00:41:46,829 --> 00:41:44,480  
the the second one was there was an

1134  
00:41:49,430 --> 00:41:46,839  
account of there being a

1135  
00:41:52,309 --> 00:41:49,440  
engineered multi-directional asteroid

1136  
00:41:55,190 --> 00:41:52,319  
bombardment so kind of almost like a

1137  
00:41:56,870 --> 00:41:55,200  
a planetary um

1138  
00:41:57,670 --> 00:41:56,880

re-engineering the system planets you

1139

00:41:59,589 --> 00:41:57,680

know on that scale you know it's

1140

00:42:02,069 --> 00:41:59,599

multiple objects hitting the planet's

1141

00:42:04,069 --> 00:42:02,079

surface but well that surely also you

1142

00:42:06,470 --> 00:42:04,079

know is going to leave some traces that

1143

00:42:09,030 --> 00:42:06,480

we can find geological records and

1144

00:42:10,550 --> 00:42:09,040

lastly this idea that you know human

1145

00:42:13,750 --> 00:42:10,560

beings had

1146

00:42:16,470 --> 00:42:13,760

an ancestor that had been genetically

1147

00:42:18,150 --> 00:42:16,480

re-engineered you know again in the same

1148

00:42:21,270 --> 00:42:18,160

period so all of these things also

1149

00:42:22,950 --> 00:42:21,280

happening tightly in time not just in

1150

00:42:25,670 --> 00:42:22,960

space on this planet

1151

00:42:29,030 --> 00:42:25,680

important point to interject here

1152

00:42:31,510 --> 00:42:29,040

these three points and a bunch of other

1153

00:42:34,390 --> 00:42:31,520

stuff is time stamped

1154

00:42:36,390 --> 00:42:34,400

from the charinga into a book that is

1155

00:42:38,069 --> 00:42:36,400

published that people can go back and

1156

00:42:39,829 --> 00:42:38,079

look at the original publication date i

1157

00:42:41,109 --> 00:42:39,839

think it's 2003.

1158

00:42:44,710 --> 00:42:41,119

explain

1159

00:42:46,470 --> 00:42:44,720

you pulled you off that story but we

1160

00:42:48,790 --> 00:42:46,480

have a timestamp of saying okay this is

1161

00:42:50,630 --> 00:42:48,800

the information that came through from

1162

00:42:53,670 --> 00:42:50,640

the bracewell probe

1163

00:42:57,030 --> 00:42:53,680

through the head of valerie burrow

1164

00:42:58,470 --> 00:42:57,040

right 2003 right and it lays it all out

1165

00:43:00,309 --> 00:42:58,480

yeah exactly so people can go away they

1166

00:43:02,390 --> 00:43:00,319

can read it you know el tringa when the

1167

00:43:04,950 --> 00:43:02,400

first ancestors were created and say yes

1168

00:43:07,190 --> 00:43:04,960

it's been out there since 2003 so it's

1169

00:43:08,870 --> 00:43:07,200

not just you know uh something that's

1170

00:43:11,030 --> 00:43:08,880

been verbally shared and that you know

1171

00:43:13,990 --> 00:43:11,040

be hard to confirm that this was

1172

00:43:15,589 --> 00:43:14,000

actually said long ago you know says out

1173

00:43:17,349 --> 00:43:15,599

there and that's important too because

1174

00:43:19,030 --> 00:43:17,359

of course people otherwise can say well

1175

00:43:21,589 --> 00:43:19,040

you know could be just fitting this

1176

00:43:23,349 --> 00:43:21,599

story to recent discoveries right that

1177

00:43:24,710 --> 00:43:23,359

somebody just oh come on i can make a

1178

00:43:26,710 --> 00:43:24,720

sort of story about that and do some

1179

00:43:28,870 --> 00:43:26,720

conferences also you know which

1180

00:43:30,950 --> 00:43:28,880

absolutely i i would understand those

1181

00:43:33,589 --> 00:43:30,960

kind of accusations but because we have

1182

00:43:36,150 --> 00:43:33,599

it already out there you know published

1183

00:43:38,470 --> 00:43:36,160

we're able to say well this account is

1184

00:43:40,390 --> 00:43:38,480

describing things that a person well if

1185

00:43:42,550 --> 00:43:40,400

they're real the person couldn't know by

1186

00:43:44,950 --> 00:43:42,560

conventional means say that because for

1187

00:43:46,230 --> 00:43:44,960

example this multi-directional asteroid

1188

00:43:48,950 --> 00:43:46,240

bombardment

1189

00:43:51,829 --> 00:43:48,960

yes there is an event like that but it

1190

00:43:52,710 --> 00:43:51,839

wasn't known until 2016.

1191

00:43:54,550 --> 00:43:52,720

so

1192

00:43:55,750 --> 00:43:54,560

that straight away is problematic for

1193

00:43:57,670 --> 00:43:55,760

people that say you know they're just

1194

00:44:00,790 --> 00:43:57,680

basing a story around known events well

1195

00:44:02,630 --> 00:44:00,800

that wasn't a known event um we also

1196

00:44:04,069 --> 00:44:02,640

have well really one interesting thing

1197

00:44:05,990 --> 00:44:04,079

is that in the book there's no mention

1198

00:44:08,230 --> 00:44:06,000

of you know australia textiles that i

1199

00:44:09,349 --> 00:44:08,240

focus on so again it's not fitting to

1200

00:44:11,750 --> 00:44:09,359

somebody's narrative there's a

1201

00:44:13,430 --> 00:44:11,760

description of a craft there's material

1202

00:44:15,270 --> 00:44:13,440

and what i found which isn't mentioned

1203

00:44:17,349 --> 00:44:15,280

that you know is that yes there is this

1204

00:44:18,630 --> 00:44:17,359

debris that fits the description so

1205

00:44:19,990 --> 00:44:18,640

again it's not someone else has made a

1206

00:44:21,829 --> 00:44:20,000

story saying these tech types were from

1207

00:44:23,990 --> 00:44:21,839

across you know i have found that they

1208

00:44:26,309 --> 00:44:24,000

mesh with the description

1209

00:44:28,390 --> 00:44:26,319

and the timing and then of course this

1210

00:44:30,550 --> 00:44:28,400

genetic engineering part which in some

1211

00:44:33,750 --> 00:44:30,560

ways is the most difficult to confirm

1212

00:44:35,750 --> 00:44:33,760

because you know we are at a point where

1213

00:44:38,870 --> 00:44:35,760

genetics and evolution are not fully

1214

00:44:40,630 --> 00:44:38,880

understood so someone could say well

1215

00:44:43,349 --> 00:44:40,640

maybe there's just some process we don't

1216

00:44:45,109 --> 00:44:43,359

understand okay which i accept but there

1217

00:44:47,510 --> 00:44:45,119

are anomalies

1218

00:44:49,430 --> 00:44:47,520

which are indicative of engineering in

1219

00:44:52,069 --> 00:44:49,440

the past at around that same time

1220

00:44:54,550 --> 00:44:52,079

because that's when the ancestors of

1221

00:44:55,270 --> 00:44:54,560

neanderthals denisovans and us

1222

00:44:57,109 --> 00:44:55,280

have

1223

00:44:59,510 --> 00:44:57,119

significant changes going on in the

1224

00:45:01,430 --> 00:44:59,520

genome that changed the brain massively

1225

00:45:03,109 --> 00:45:01,440

change our brain structure right so

1226  
00:45:04,950 --> 00:45:03,119  
that's having the same time so we have

1227  
00:45:07,510 --> 00:45:04,960  
these three things all having the same

1228  
00:45:09,829 --> 00:45:07,520  
time that are indicated in this account

1229  
00:45:12,870 --> 00:45:09,839  
okay and here's where it gets even more

1230  
00:45:15,670 --> 00:45:12,880  
super interesting because there's some

1231  
00:45:18,150 --> 00:45:15,680  
new science so you are

1232  
00:45:20,710 --> 00:45:18,160  
truly a scientist you're constantly

1233  
00:45:22,950 --> 00:45:20,720  
reading papers you're constantly taking

1234  
00:45:25,190 --> 00:45:22,960  
in new information you're testing it

1235  
00:45:27,990 --> 00:45:25,200  
testing it against the theory and one of

1236  
00:45:30,710 --> 00:45:28,000  
the things you alerted me to is that hey

1237  
00:45:33,109 --> 00:45:30,720  
alex i have looked into the tech type

1238  
00:45:35,349 --> 00:45:33,119

thing and boom there's some new

1239

00:45:37,990 --> 00:45:35,359

information that i want to share and

1240

00:45:40,550 --> 00:45:38,000

it's more up to date similarly we're

1241

00:45:42,790 --> 00:45:40,560

going to talk in a minute about the uh

1242

00:45:45,510 --> 00:45:42,800

human acceleration regions and the

1243

00:45:46,470 --> 00:45:45,520

genetics associated with that again new

1244

00:45:48,790 --> 00:45:46,480

information

1245

00:45:50,790 --> 00:45:48,800

has come forward that has changed that

1246

00:45:54,230 --> 00:45:50,800

timeline in the way that we understand

1247

00:45:56,550 --> 00:45:54,240

it it happens to totally fit in your

1248

00:45:57,910 --> 00:45:56,560

theory so we're going to talk about both

1249

00:45:59,990 --> 00:45:57,920

of those

1250

00:46:02,710 --> 00:46:00,000

the the basics of it and then the new

1251

00:46:04,710 --> 00:46:02,720

science of it let's start with the

1252

00:46:06,550 --> 00:46:04,720

tektites

1253

00:46:08,710 --> 00:46:06,560

yeah absolutely so we've been working on

1254

00:46:10,550 --> 00:46:08,720

a paper about the text heights for quite

1255

00:46:13,270 --> 00:46:10,560

a while now um

1256

00:46:14,390 --> 00:46:13,280

what i realized is that to make an

1257

00:46:15,510 --> 00:46:14,400

argument

1258

00:46:16,790 --> 00:46:15,520

that

1259

00:46:17,670 --> 00:46:16,800

you know something really strong has

1260

00:46:20,230 --> 00:46:17,680

happened first of all you have to you

1261

00:46:23,030 --> 00:46:20,240

know what is the strongest

1262

00:46:26,069 --> 00:46:23,040

area of evidence that we have out of

1263

00:46:28,150 --> 00:46:26,079

these these different topic areas and my

1264

00:46:30,069 --> 00:46:28,160

realization was it was in this tech type

1265

00:46:32,950 --> 00:46:30,079

machine and if you aren't familiar with

1266

00:46:35,910 --> 00:46:32,960

tektites tektites are a kind of melt

1267

00:46:37,109 --> 00:46:35,920

glass now they uh there's there's a few

1268

00:46:37,750 --> 00:46:37,119

kinds of milks you have of course you

1269

00:46:39,910 --> 00:46:37,760

have

1270

00:46:42,710 --> 00:46:39,920

impact glasses which you find around you

1271

00:46:45,190 --> 00:46:42,720

know asteroid craters right which i

1272

00:46:47,589 --> 00:46:45,200

most maybe are familiar with we have of

1273

00:46:49,349 --> 00:46:47,599

course volcanic glasses

1274

00:46:50,630 --> 00:46:49,359

and then you have you know human-made

1275

00:46:52,309 --> 00:46:50,640

glasses i mean this kind of other kind

1276

00:46:54,870 --> 00:46:52,319

of like lightning glasses like full

1277

00:46:57,589 --> 00:46:54,880

garages but they're quite different um

1278

00:46:59,430 --> 00:46:57,599

tektites are a particularly strange type

1279

00:47:01,910 --> 00:46:59,440

of glass because although they are they

1280

00:47:04,870 --> 00:47:01,920

are generally held to be

1281

00:47:08,309 --> 00:47:04,880

a type of asteroid impact glass they are

1282

00:47:10,550 --> 00:47:08,319

far more alike to volcanic glasses and

1283

00:47:12,390 --> 00:47:10,560

artificial glasses and there's a number

1284

00:47:14,230 --> 00:47:12,400

of reasons i'll give a very quick

1285

00:47:17,589 --> 00:47:14,240

overview of why and this is why this

1286

00:47:19,910 --> 00:47:17,599

tech type topic remains a mystery and

1287

00:47:21,670 --> 00:47:19,920

controversial with ongoing discussion

1288

00:47:23,990 --> 00:47:21,680

around how tech types formed and that's

1289

00:47:26,150 --> 00:47:24,000

200 years this has been going on just to

1290

00:47:26,870 --> 00:47:26,160

be clear 200 years detective subject has

1291

00:47:28,950 --> 00:47:26,880

been

1292

00:47:30,950 --> 00:47:28,960

debated with different points of view on

1293

00:47:32,870 --> 00:47:30,960

the the story of how they formed and how

1294

00:47:34,549 --> 00:47:32,880

they are distributed now the

1295

00:47:37,030 --> 00:47:34,559

distribution is interesting because they

1296

00:47:39,829 --> 00:47:37,040

are found in strewn fields enormous um

1297

00:47:41,589 --> 00:47:39,839

just enormous fields of debris

1298

00:47:44,069 --> 00:47:41,599

stretching for you know hundreds or

1299

00:47:46,630 --> 00:47:44,079

thousands of kilometers in the case of

1300

00:47:48,309 --> 00:47:46,640

the australasian strewn field we are

1301  
00:47:51,510 --> 00:47:48,319  
talking about a debris field that is

1302  
00:47:54,230 --> 00:47:51,520  
around 12 000 kilometers long going from

1303  
00:47:55,910 --> 00:47:54,240  
china to antarctica and out of the edges

1304  
00:47:58,470 --> 00:47:55,920  
to kind of madagascar and out into the

1305  
00:48:01,109 --> 00:47:58,480  
ocean beyond papua right about another

1306  
00:48:03,750 --> 00:48:01,119  
10 000 kilometers across or something so

1307  
00:48:05,589 --> 00:48:03,760  
about 20 of the earth's surface

1308  
00:48:07,109 --> 00:48:05,599  
is covered in these australasian

1309  
00:48:08,390 --> 00:48:07,119  
textiles so that's a first of all it's

1310  
00:48:10,870 --> 00:48:08,400  
enormous so we're talking about an event

1311  
00:48:14,309 --> 00:48:10,880  
that is just you know massive in scale

1312  
00:48:15,109 --> 00:48:14,319  
and these these tektites have um

1313  
00:48:16,390 --> 00:48:15,119

two

1314

00:48:18,309 --> 00:48:16,400

really important considerations first

1315

00:48:20,150 --> 00:48:18,319

thing is that they are very homogeneous

1316

00:48:23,030 --> 00:48:20,160

that is the the chemicals in them are

1317

00:48:25,190 --> 00:48:23,040

very well mixed throughout the entire

1318

00:48:26,710 --> 00:48:25,200

body of the material across all of that

1319

00:48:28,470 --> 00:48:26,720

distance the second means they're very

1320

00:48:30,150 --> 00:48:28,480

well fined and people are familiar with

1321

00:48:32,950 --> 00:48:30,160

glass making understand the fining

1322

00:48:34,790 --> 00:48:32,960

process of glass is so removing the

1323

00:48:36,390 --> 00:48:34,800

bubbles and to remove you know removing

1324

00:48:38,150 --> 00:48:36,400

the chemicals you don't want in there so

1325

00:48:39,750 --> 00:48:38,160

you heat it to a certain temperature

1326

00:48:42,390 --> 00:48:39,760

over a certain period of time certain

1327

00:48:44,390 --> 00:48:42,400

chemicals so you mix it you allow the

1328

00:48:47,270 --> 00:48:44,400

bubbling and you end up with you know

1329

00:48:49,190 --> 00:48:47,280

these high quality glasses right a

1330

00:48:51,670 --> 00:48:49,200

similar process happens with volcanic

1331

00:48:54,150 --> 00:48:51,680

glass because it's heated in a caldera

1332

00:48:57,190 --> 00:48:54,160

over a period of time so again

1333

00:48:59,990 --> 00:48:57,200

homogenous uh you know material how does

1334

00:49:01,430 --> 00:49:00,000

that differ from what we'd find from an

1335

00:49:07,270 --> 00:49:01,440

asteroid

1336

00:49:08,870 --> 00:49:07,280

foamy so in other words they are full of

1337

00:49:10,230 --> 00:49:08,880

bubbles and the reason why is because

1338

00:49:11,990 --> 00:49:10,240

when an asteroid impacts and this is

1339

00:49:13,349 --> 00:49:12,000

you'll find the same at nuclear blast

1340

00:49:15,510 --> 00:49:13,359

sites if anyone's familiar with nuclear

1341

00:49:17,270 --> 00:49:15,520

blast glasses they're very similar to

1342

00:49:19,589 --> 00:49:17,280

asteroid impact glasses for the same

1343

00:49:21,270 --> 00:49:19,599

reason very quick events you know high

1344

00:49:23,510 --> 00:49:21,280

energy high pressure events but

1345

00:49:25,750 --> 00:49:23,520

short-lived so you get a lot of material

1346

00:49:27,109 --> 00:49:25,760

melted but around the edges especially a

1347

00:49:28,549 --> 00:49:27,119

lot of bubbles in it because it heats

1348

00:49:31,349 --> 00:49:28,559

very quick then it cools very fast so

1349

00:49:32,549 --> 00:49:31,359

the bubbles are trapped right and so you

1350

00:49:33,829 --> 00:49:32,559

anyone wants to look up them they'll

1351

00:49:35,670 --> 00:49:33,839

find images they'll find they're very

1352

00:49:38,549 --> 00:49:35,680

bubbly the other thing is they contain

1353

00:49:39,510 --> 00:49:38,559

part melt so pieces of partially melted

1354

00:49:41,109 --> 00:49:39,520

stone

1355

00:49:43,030 --> 00:49:41,119

right makes sense at the edge of the

1356

00:49:45,990 --> 00:49:43,040

blast zone you get part melt your

1357

00:49:47,990 --> 00:49:46,000

inclusions of unmelted stone or sand you

1358

00:49:50,549 --> 00:49:48,000

also get inclusions of organic materials

1359

00:49:52,470 --> 00:49:50,559

are you soils right so that's a kind of

1360

00:49:56,230 --> 00:49:52,480

a typical also the glass is almost

1361

00:49:58,309 --> 00:49:56,240

identical chemically to the crater rock

1362

00:50:00,790 --> 00:49:58,319

because it's just the crater melted

1363

00:50:02,950 --> 00:50:00,800

right so it's almost interesting and

1364

00:50:05,270 --> 00:50:02,960

you'll find that blast around the crater

1365

00:50:07,990 --> 00:50:05,280

and usually to a maximum of 400

1366

00:50:10,230 --> 00:50:08,000

kilometers from the crater right and

1367

00:50:12,309 --> 00:50:10,240

that's because when anything explodes no

1368

00:50:14,549 --> 00:50:12,319

matter how fast that material leaves if

1369

00:50:16,710 --> 00:50:14,559

it's about hyper velocity debris called

1370

00:50:19,109 --> 00:50:16,720

distal ejector right so when this

1371

00:50:21,349 --> 00:50:19,119

material is thrown out of the crater no

1372

00:50:23,670 --> 00:50:21,359

matter how fast it's going

1373

00:50:25,829 --> 00:50:23,680

it falls by around 400 kilometers the

1374

00:50:27,510 --> 00:50:25,839

reason for that is because the air ahead

1375

00:50:29,910 --> 00:50:27,520

of it is being compressed so it's

1376

00:50:31,510 --> 00:50:29,920

dealing with friction gravity and

1377

00:50:33,109 --> 00:50:31,520

obviously the air that's compressing

1378

00:50:34,790 --> 00:50:33,119

ahead of it so if you imagine a bullet

1379

00:50:36,630 --> 00:50:34,800

going through water you know it's

1380

00:50:38,150 --> 00:50:36,640

stopped pretty quick this is a similar

1381

00:50:41,430 --> 00:50:38,160

kind of scenario no matter how fast it's

1382

00:50:43,829 --> 00:50:41,440

going it's meeting that opposition and

1383

00:50:45,750 --> 00:50:43,839

it will be slowed and it will drop to

1384

00:50:47,030 --> 00:50:45,760

not much further than 400 kilometers

1385

00:50:51,430 --> 00:50:47,040

some people have some scientists

1386

00:50:56,790 --> 00:50:51,440

estimate maybe a thousand so compared to

1387

00:51:01,430 --> 00:50:56,800

a huge giant small moon size spaceship

1388

00:51:04,069 --> 00:51:01,440

that is orbiting the earth and is hit by

1389

00:51:06,470 --> 00:51:04,079

uh some kind of high energy weapon that

1390

00:51:08,950 --> 00:51:06,480

we can't begin to understand

1391

00:51:10,390 --> 00:51:08,960

how does what you find

1392

00:51:13,190 --> 00:51:10,400

fit that

1393

00:51:13,910 --> 00:51:13,200

completely ridiculous to a lot of people

1394

00:51:16,069 --> 00:51:13,920

but

1395

00:51:18,069 --> 00:51:16,079

potential scenario

1396

00:51:20,390 --> 00:51:18,079

how does it fit well there's

1397

00:51:21,710 --> 00:51:20,400

two things like two things i have to say

1398

00:51:24,870 --> 00:51:21,720

you can look at this the most

1399

00:51:26,710 --> 00:51:24,880

conservative conclusion of my work i

1400

00:51:29,829 --> 00:51:26,720

would suggest is that you're dealing

1401  
00:51:32,630 --> 00:51:29,839  
with an interstellar object an unknown

1402  
00:51:33,829 --> 00:51:32,640  
type of interstellar object okay so some

1403  
00:51:35,910 --> 00:51:33,839  
people may be

1404  
00:51:38,470 --> 00:51:35,920  
only willing to go as far as that but

1405  
00:51:41,829 --> 00:51:38,480  
the indications are that this has to be

1406  
00:51:44,549 --> 00:51:41,839  
a glassy object right a highly silica

1407  
00:51:46,710 --> 00:51:44,559  
glassy object in other words it appears

1408  
00:51:48,390 --> 00:51:46,720  
it was already made of glass fined

1409  
00:51:50,470 --> 00:51:48,400  
homogenous glass

1410  
00:51:52,470 --> 00:51:50,480  
before it exploded

1411  
00:51:54,710 --> 00:51:52,480  
because as you just described if it's

1412  
00:51:57,030 --> 00:51:54,720  
made of a bunch of other stuff then

1413  
00:51:59,270 --> 00:51:57,040

we're going to find all that other stuff

1414

00:52:01,030 --> 00:51:59,280

in the tektites right well so yeah and

1415

00:52:03,190 --> 00:52:01,040

if it's homogeneous if the tektites are

1416

00:52:05,270 --> 00:52:03,200

homogeneous and well-fined and they

1417

00:52:07,030 --> 00:52:05,280

didn't have time for that to occur

1418

00:52:09,510 --> 00:52:07,040

because they're not in a caldera they're

1419

00:52:12,150 --> 00:52:09,520

not in a you know in an industrial plant

1420

00:52:15,589 --> 00:52:12,160

being heated for hours right so this

1421

00:52:17,990 --> 00:52:15,599

infers that there was not time for the

1422

00:52:20,710 --> 00:52:18,000

the body to be melted into a fine

1423

00:52:23,349 --> 00:52:20,720

homogenous glass so we should be seeing

1424

00:52:26,069 --> 00:52:23,359

frothy foamy poorly mixed materials but

1425

00:52:29,109 --> 00:52:26,079

we're not so the inference is that the

1426  
00:52:32,710 --> 00:52:29,119  
parent body whatever it was was already

1427  
00:52:35,109 --> 00:52:32,720  
made of glass like homogenous find glass

1428  
00:52:37,510 --> 00:52:35,119  
now that's a problem because what kind

1429  
00:52:41,270 --> 00:52:37,520  
of object is flying around out there

1430  
00:52:43,829 --> 00:52:41,280  
it's a big silica glass body there's no

1431  
00:52:46,470 --> 00:52:43,839  
comets or asteroids or anything like

1432  
00:52:48,549 --> 00:52:46,480  
that known in our solar system so you

1433  
00:52:50,950 --> 00:52:48,559  
have to go to either an exotic

1434  
00:52:52,710 --> 00:52:50,960  
interstellar object that's natural but

1435  
00:52:54,710 --> 00:52:52,720  
again you have to explain how

1436  
00:52:55,589 --> 00:52:54,720  
that's formed right

1437  
00:53:00,630 --> 00:52:55,599  
or

1438  
00:53:03,589 --> 00:53:00,640

somebody has made this this is this is

1439

00:53:06,069 --> 00:53:03,599

find homogeneous materials somebody has

1440

00:53:08,069 --> 00:53:06,079

find it somebody has mixed it somebody

1441

00:53:09,829 --> 00:53:08,079

has made it and the problems are with

1442

00:53:11,589 --> 00:53:09,839

the interstellar object hypothesis again

1443

00:53:12,950 --> 00:53:11,599

this is there was a couple guys back in

1444

00:53:15,589 --> 00:53:12,960

the days at nasa kind of asked the

1445

00:53:17,910 --> 00:53:15,599

question could this parent body be at

1446

00:53:20,069 --> 00:53:17,920

least an interplanetary object

1447

00:53:22,470 --> 00:53:20,079

at the time that the the the two

1448

00:53:23,589 --> 00:53:22,480

positions were it was luna like lunar

1449

00:53:25,829 --> 00:53:23,599

volcanic

1450

00:53:27,670 --> 00:53:25,839

glass they've been blown off of the moon

1451  
00:53:29,270 --> 00:53:27,680  
and again for this very reason that they

1452  
00:53:31,510 --> 00:53:29,280  
they understood this appeared to be

1453  
00:53:33,430 --> 00:53:31,520  
already glass and to have come from

1454  
00:53:35,829 --> 00:53:33,440  
space so a lot of the nasa guys were

1455  
00:53:37,670 --> 00:53:35,839  
arguing this had to be lunar material

1456  
00:53:39,750 --> 00:53:37,680  
that theory collapsed when we retrieved

1457  
00:53:42,549 --> 00:53:39,760  
lunar materials and realized it did not

1458  
00:53:43,990 --> 00:53:42,559  
mesh with lunar rock right but their

1459  
00:53:45,990 --> 00:53:44,000  
argument was very sound and one of the

1460  
00:53:47,750 --> 00:53:46,000  
guys actually said well look what about

1461  
00:53:49,190 --> 00:53:47,760  
if it came from interplanetary space or

1462  
00:53:50,390 --> 00:53:49,200  
somewhere further out they said well

1463  
00:53:52,150 --> 00:53:50,400

that's a problem no one can tell that

1464

00:53:53,990 --> 00:53:52,160

seriously because

1465

00:53:55,910 --> 00:53:54,000

what's the chances of first like an

1466

00:53:59,109 --> 00:53:55,920

object like that but also that it ends

1467

00:54:00,309 --> 00:53:59,119

up in a geocentric orbit like so see

1468

00:54:01,990 --> 00:54:00,319

then you start getting to this really

1469

00:54:03,430 --> 00:54:02,000

straightforward yeah what's the chances

1470

00:54:05,109 --> 00:54:03,440

that we're going to capture there's an

1471

00:54:06,870 --> 00:54:05,119

anomalous object and it's going to come

1472

00:54:09,109 --> 00:54:06,880

in at just the right speed and angle to

1473

00:54:10,950 --> 00:54:09,119

be caught in a geocentric orbit how do

1474

00:54:13,109 --> 00:54:10,960

you know it was orbiting

1475

00:54:15,589 --> 00:54:13,119

so two questions one how do you know it

1476  
00:54:17,030 --> 00:54:15,599  
was orbiting more science there that you

1477  
00:54:18,470 --> 00:54:17,040  
know but the other thing that you

1478  
00:54:21,270 --> 00:54:18,480  
alluded to i want to make sure we

1479  
00:54:23,829 --> 00:54:21,280  
highlight it you say these nasa guys

1480  
00:54:26,069 --> 00:54:23,839  
were debating it again this speaks to

1481  
00:54:27,349 --> 00:54:26,079  
what you're saying before 200 year old

1482  
00:54:28,549 --> 00:54:27,359  
mystery

1483  
00:54:31,430 --> 00:54:28,559  
utai

1484  
00:54:34,069 --> 00:54:31,440  
reference nassau papers where these

1485  
00:54:36,549 --> 00:54:34,079  
scientists are speculating about the

1486  
00:54:39,750 --> 00:54:36,559  
very thing that you're studying so this

1487  
00:54:42,390 --> 00:54:39,760  
is not this is like that part of it is

1488  
00:54:44,789 --> 00:54:42,400

mainstream the mystery is mainstream the

1489

00:54:47,510 --> 00:54:44,799

data that you're using is mainstream

1490

00:54:49,349 --> 00:54:47,520

verifiable so then

1491

00:54:52,390 --> 00:54:49,359

i just want people to understand that

1492

00:54:53,190 --> 00:54:52,400

orbit how do we know it's orbiting bruce

1493

00:54:55,030 --> 00:54:53,200

right

1494

00:54:57,430 --> 00:54:55,040

we know it's orbiting because there's a

1495

00:54:59,510 --> 00:54:57,440

reason if you imagine uh so you imagine

1496

00:55:00,789 --> 00:54:59,520

like say a comet something comes in from

1497

00:55:03,030 --> 00:55:00,799

space you say let's say we thought that

1498

00:55:04,950 --> 00:55:03,040

this was some sort of glassy comet came

1499

00:55:07,670 --> 00:55:04,960

in from space now

1500

00:55:10,470 --> 00:55:07,680

if it comes directly in and breaks up in

1501  
00:55:13,030 --> 00:55:10,480  
our atmosphere you end up with a very

1502  
00:55:14,230 --> 00:55:13,040  
small strewn field underneath because it

1503  
00:55:15,750 --> 00:55:14,240  
will just break up you'll just rain down

1504  
00:55:18,150 --> 00:55:15,760  
directly beneath where it's coming in or

1505  
00:55:19,349 --> 00:55:18,160  
an impact you know as we've touched on

1506  
00:55:21,349 --> 00:55:19,359  
there's a problem with the impact theory

1507  
00:55:23,190 --> 00:55:21,359  
but if we say that it broke up coming

1508  
00:55:24,630 --> 00:55:23,200  
into the atmosphere you would end up

1509  
00:55:27,990 --> 00:55:24,640  
with i think they estimated something

1510  
00:55:29,670 --> 00:55:28,000  
like um about 10 kilometer wide field or

1511  
00:55:32,069 --> 00:55:29,680  
something like that very small but what

1512  
00:55:33,829 --> 00:55:32,079  
we've got is a 10 000 kilometer wide

1513  
00:55:35,910 --> 00:55:33,839

field so said the only way that this

1514

00:55:39,510 --> 00:55:35,920

works out is if we have a body that has

1515

00:55:41,910 --> 00:55:39,520

been captured and is in orbit and then

1516

00:55:43,270 --> 00:55:41,920

it breaks apart fragments and a high

1517

00:55:43,990 --> 00:55:43,280

temperature because it has to you know

1518

00:55:46,069 --> 00:55:44,000

has

1519

00:55:47,589 --> 00:55:46,079

basically sort of blown up it's melted

1520

00:55:49,030 --> 00:55:47,599

to liquid we know it was melted to

1521

00:55:51,829 --> 00:55:49,040

liquid because

1522

00:55:53,589 --> 00:55:51,839

the the tectites begin before they enter

1523

00:55:55,430 --> 00:55:53,599

atmosphere these tactics the separate

1524

00:55:57,349 --> 00:55:55,440

pieces are spherical

1525

00:55:59,589 --> 00:55:57,359

right and have frozen very quickly so

1526  
00:56:00,870 --> 00:55:59,599  
fast that there's no crystallization has

1527  
00:56:03,109 --> 00:56:00,880  
occurred and that would occur if there

1528  
00:56:04,230 --> 00:56:03,119  
was an extended cooling so we know the

1529  
00:56:06,630 --> 00:56:04,240  
only place where that's really going to

1530  
00:56:08,950 --> 00:56:06,640  
happen is in a vacuum right so if you

1531  
00:56:11,589 --> 00:56:08,960  
get this material is melted to

1532  
00:56:14,309 --> 00:56:11,599  
superheated to glass at 2700 kelvin

1533  
00:56:15,910 --> 00:56:14,319  
roughly and then it is it becomes glass

1534  
00:56:18,230 --> 00:56:15,920  
droplets they form spheres because

1535  
00:56:19,589 --> 00:56:18,240  
they're in space so that's the nasa guys

1536  
00:56:21,030 --> 00:56:19,599  
they're looking at saying well that has

1537  
00:56:22,710 --> 00:56:21,040  
to be that they can see that the tech

1538  
00:56:25,109 --> 00:56:22,720

type buttons which are a particular type

1539

00:56:27,750 --> 00:56:25,119

of these tactiles then show secondary

1540

00:56:29,030 --> 00:56:27,760

melting with aerodynamic shaping so he

1541

00:56:31,510 --> 00:56:29,040

said in other words these have skipped

1542

00:56:33,670 --> 00:56:31,520

along the edge of the atmosphere very

1543

00:56:37,589 --> 00:56:33,680

angles almost horizontal to the plane of

1544

00:56:39,589 --> 00:56:37,599

the planet so very very um gentle angles

1545

00:56:41,910 --> 00:56:39,599

skipping along and then slowly entering

1546

00:56:44,309 --> 00:56:41,920

which allows time for heating of the

1547

00:56:46,470 --> 00:56:44,319

front of the sphere there's a lot of

1548

00:56:48,309 --> 00:56:46,480

sphere evaporates but the front edge

1549

00:56:50,150 --> 00:56:48,319

means to run backwards and you get these

1550

00:56:52,230 --> 00:56:50,160

aerodynamic shapes they look like the

1551  
00:56:54,230 --> 00:56:52,240  
front of bullets almost because you know

1552  
00:56:56,710 --> 00:56:54,240  
aerodynamic shapes right so

1553  
00:56:59,190 --> 00:56:56,720  
they could understand that these had to

1554  
00:57:00,390 --> 00:56:59,200  
be on these gentle angles the only way

1555  
00:57:02,710 --> 00:57:00,400  
that you'd end up with that is if the

1556  
00:57:04,549 --> 00:57:02,720  
parent body is in orbit and what you

1557  
00:57:06,630 --> 00:57:04,559  
have really is a debris field that is

1558  
00:57:08,789 --> 00:57:06,640  
continuing on in the orbital parts of

1559  
00:57:11,270 --> 00:57:08,799  
the parent body but they're now entering

1560  
00:57:13,430 --> 00:57:11,280  
decaying orbital paths because it's

1561  
00:57:15,670 --> 00:57:13,440  
fragmented it's blown apart and some of

1562  
00:57:17,670 --> 00:57:15,680  
them are now gently skipping along the

1563  
00:57:19,030 --> 00:57:17,680

edge of atmosphere and entering so if

1564

00:57:20,710 --> 00:57:19,040

you come in at any other angles for

1565

00:57:23,589 --> 00:57:20,720

example if you think of a normal

1566

00:57:26,789 --> 00:57:23,599

meteorite when it comes in comes super

1567

00:57:28,150 --> 00:57:26,799

fast from space first of all and what

1568

00:57:30,150 --> 00:57:28,160

you get is

1569

00:57:32,230 --> 00:57:30,160

absolute extreme heating of the outer

1570

00:57:33,589 --> 00:57:32,240

surface it evaporates and that's we get

1571

00:57:35,030 --> 00:57:33,599

these and they just come down almost the

1572

00:57:37,030 --> 00:57:35,040

same shape as they were those chunks you

1573

00:57:39,510 --> 00:57:37,040

know misshapen chunks there's no

1574

00:57:41,270 --> 00:57:39,520

aerodynamic shaping on meteorites they

1575

00:57:43,349 --> 00:57:41,280

come in so fast that all that happens is

1576

00:57:45,430 --> 00:57:43,359

the outer layer evaporates and that's

1577

00:57:47,030 --> 00:57:45,440

why these button tectites are unique you

1578

00:57:49,030 --> 00:57:47,040

don't find them anywhere else and that's

1579

00:57:51,589 --> 00:57:49,040

an important point in the 4.6 billion

1580

00:57:54,069 --> 00:57:51,599

years of history these are the only

1581

00:57:56,789 --> 00:57:54,079

known examples right so if these were

1582

00:57:59,109 --> 00:57:56,799

just from any old meteorites you would

1583

00:58:00,950 --> 00:57:59,119

see these all over the planet right at

1584

00:58:02,870 --> 00:58:00,960

various sites you don't you find them

1585

00:58:05,109 --> 00:58:02,880

once and so the nasa guys ran their

1586

00:58:07,349 --> 00:58:05,119

experiments at the nasa ames um research

1587

00:58:09,829 --> 00:58:07,359

lab they did wind tunnel research using

1588

00:58:12,069 --> 00:58:09,839

artificial glass spheres to see how you

1589

00:58:14,630 --> 00:58:12,079

could shape these and they found that

1590

00:58:17,349 --> 00:58:14,640

they had to come in around about

1591

00:58:20,309 --> 00:58:17,359

about 10 to 14

1592

00:58:22,390 --> 00:58:20,319

kilometers per second and angles also 90

1593

00:58:24,150 --> 00:58:22,400

degree angles roughly and that you would

1594

00:58:26,069 --> 00:58:24,160

end up with this kind of shaping so all

1595

00:58:28,309 --> 00:58:26,079

that all that research was done by the

1596

00:58:31,349 --> 00:58:28,319

nasa guys right they worked out this had

1597

00:58:32,870 --> 00:58:31,359

to be coming in from something in orbit

1598

00:58:35,270 --> 00:58:32,880

when it broke up

1599

00:58:36,630 --> 00:58:35,280

none of the other maps works you know i

1600

00:58:38,150 --> 00:58:36,640

don't have to do the mouse thankfully

1601  
00:58:39,510 --> 00:58:38,160  
they've done all that

1602  
00:58:41,030 --> 00:58:39,520  
and they found that that is the only

1603  
00:58:43,190 --> 00:58:41,040  
scenario where you end up with these

1604  
00:58:45,589 --> 00:58:43,200  
tech type buttons

1605  
00:58:48,950 --> 00:58:45,599  
what do we know and do we know anything

1606  
00:58:51,190 --> 00:58:48,960  
new about the timing and again this is

1607  
00:58:52,950 --> 00:58:51,200  
like you've already mentioned this point

1608  
00:58:54,950 --> 00:58:52,960  
it's very basic

1609  
00:58:56,630 --> 00:58:54,960  
but when i heard this interview you did

1610  
00:58:59,510 --> 00:58:56,640  
where the guy was totally hung up on

1611  
00:59:01,109 --> 00:58:59,520  
this you're looking to falsify the

1612  
00:59:03,910 --> 00:59:01,119  
narrative that's what you're really

1613  
00:59:05,589 --> 00:59:03,920

doing and people mistakenly look that

1614

00:59:08,710 --> 00:59:05,599

you're looking to

1615

00:59:11,030 --> 00:59:08,720

cherry pick and retrofit into it and

1616

00:59:13,670 --> 00:59:11,040

you're doing the opposite you are trying

1617

00:59:15,589 --> 00:59:13,680

to debunk your own theory and then what

1618

00:59:17,109 --> 00:59:15,599

comes out in terms of the date of the

1619

00:59:18,549 --> 00:59:17,119

tektites and what's come out more

1620

00:59:20,870 --> 00:59:18,559

recently

1621

00:59:23,270 --> 00:59:20,880

yeah i mean this first says well in in

1622

00:59:25,030 --> 00:59:23,280

the original account you know

1623

00:59:27,349 --> 00:59:25,040

valerie barrow actually she suggests

1624

00:59:29,750 --> 00:59:27,359

that she feels that the debris from this

1625

00:59:31,670 --> 00:59:29,760

craft is molded like tech types so it's

1626

00:59:32,789 --> 00:59:31,680

still tectites but you know if i was

1627

00:59:35,030 --> 00:59:32,799

going to be cherry-picking and just

1628

00:59:37,510 --> 00:59:35,040

trying to establish this narrative i

1629

00:59:39,829 --> 00:59:37,520

would be trying to argue that moldavites

1630

00:59:42,470 --> 00:59:39,839

fit the story right and they're trying

1631

00:59:44,150 --> 00:59:42,480

to make the science fit that somehow

1632

00:59:46,309 --> 00:59:44,160

these are the right age you know the

1633

00:59:47,910 --> 00:59:46,319

right characteristics but i didn't find

1634

00:59:50,230 --> 00:59:47,920

that i found that they did not fit

1635

00:59:52,470 --> 00:59:50,240

because the dating on them is millions

1636

00:59:55,030 --> 00:59:52,480

of years old

1637

00:59:56,870 --> 00:59:55,040

but with the the australasian tektite

1638

00:59:58,549 --> 00:59:56,880

the most recent dating is done by the

1639

01:00:01,430 --> 00:59:58,559

argonne dating method so you know

1640

01:00:02,950 --> 01:00:01,440

geological dating methods uh it they

1641

01:00:05,910 --> 01:00:02,960

come to what is considered now the most

1642

01:00:08,549 --> 01:00:05,920

accurate dating of 788

1643

01:00:11,030 --> 01:00:08,559

000 years ago that this glass formed you

1644

01:00:12,470 --> 01:00:11,040

know this melt occurred to this glass so

1645

01:00:14,470 --> 01:00:12,480

don't tell you how the old the parent

1646

01:00:16,470 --> 01:00:14,480

object is but it tells you when that

1647

01:00:18,470 --> 01:00:16,480

melting occurred to form these

1648

01:00:21,030 --> 01:00:18,480

individual techniques so that's at the

1649

01:00:22,870 --> 01:00:21,040

as it stands is the most accurate dating

1650

01:00:24,870 --> 01:00:22,880

again not done by me you know this is

1651  
01:00:27,030 --> 01:00:24,880  
obviously done by people with labs that

1652  
01:00:29,030 --> 01:00:27,040  
can do argon dating so as you know as

1653  
01:00:30,230 --> 01:00:29,040  
ever i rely on that so that's where

1654  
01:00:31,430 --> 01:00:30,240  
we're at with the dating so that's quite

1655  
01:00:33,430 --> 01:00:31,440  
solid

1656  
01:00:35,109 --> 01:00:33,440  
you know unless you know

1657  
01:00:36,710 --> 01:00:35,119  
they somehow are contested but even if

1658  
01:00:38,309 --> 01:00:36,720  
you look at the older datings they're

1659  
01:00:39,430 --> 01:00:38,319  
all somewhere in that range you know

1660  
01:00:42,150 --> 01:00:39,440  
they're certainly in the last few years

1661  
01:00:43,829 --> 01:00:42,160  
the datings have been done around 780

1662  
01:00:46,950 --> 01:00:43,839  
000 years of source when we were talking

1663  
01:00:49,990 --> 01:00:46,960

before i was saying 780 000 but the most

1664

01:00:52,950 --> 01:00:50,000  
accurate dating now is 788 000.

1665

01:00:55,589 --> 01:00:52,960  
excellent so anything else on the

1666

01:00:57,430 --> 01:00:55,599  
tektites uh before we move to the

1667

01:00:59,750 --> 01:00:57,440  
genetic stuff which is

1668

01:01:00,950 --> 01:00:59,760  
super fascinating

1669

01:01:04,309 --> 01:01:00,960  
yeah i mean the first i say is that you

1670

01:01:05,589 --> 01:01:04,319  
know in in many ways the tech type area

1671

01:01:08,069 --> 01:01:05,599  
of this

1672

01:01:09,750 --> 01:01:08,079  
can be quite easily just disconnected

1673

01:01:11,750 --> 01:01:09,760  
from the whole story for people that

1674

01:01:14,309 --> 01:01:11,760  
don't like you know stories of people's

1675

01:01:16,309 --> 01:01:14,319  
anecdotal accounts of having told

1676

01:01:18,390 --> 01:01:16,319

something had happened you know i i feel

1677

01:01:19,990 --> 01:01:18,400

the tech type part is a stand-alone

1678

01:01:22,470 --> 01:01:20,000

topic because at this point i don't

1679

01:01:24,549 --> 01:01:22,480

really care as such whether or not

1680

01:01:27,190 --> 01:01:24,559

people believe in whether or not an

1681

01:01:28,870 --> 01:01:27,200

elder uh you know and another lady had

1682

01:01:30,309 --> 01:01:28,880

an encounter with an object they can

1683

01:01:31,349 --> 01:01:30,319

sign themselves but what i can say to

1684

01:01:34,630 --> 01:01:31,359

them is

1685

01:01:36,630 --> 01:01:34,640

tektites are a existing scientific

1686

01:01:39,030 --> 01:01:36,640

mystery that is survived that's a

1687

01:01:42,069 --> 01:01:39,040

mystery for 200 years with the greatest

1688

01:01:44,710 --> 01:01:42,079

minds thrown in it nasa's facilities are

1689

01:01:47,030 --> 01:01:44,720

above and used to explore them it's a

1690

01:01:48,309 --> 01:01:47,040

genuine persisting mystery and that the

1691

01:01:51,430 --> 01:01:48,319

evidence

1692

01:01:54,230 --> 01:01:51,440

points to this being from an anomalous

1693

01:01:55,750 --> 01:01:54,240

type of object exploding in orbit now i

1694

01:01:59,270 --> 01:01:55,760

don't really care whether people want to

1695

01:02:01,190 --> 01:01:59,280

believe in talking probes or you know or

1696

01:02:02,710 --> 01:02:01,200

elders having perhaps you know if that

1697

01:02:06,309 --> 01:02:02,720

is a problem for someone i would say

1698

01:02:09,510 --> 01:02:06,319

well just look at this tech type plan

1699

01:02:11,990 --> 01:02:09,520

and go from there because i'm so

1700

01:02:13,750 --> 01:02:12,000

confident in the kind of the the level

1701

01:02:15,750 --> 01:02:13,760

of evidence to at least

1702

01:02:18,069 --> 01:02:15,760

and again most conservative conclusion

1703

01:02:19,990 --> 01:02:18,079

at least support the

1704

01:02:22,789 --> 01:02:20,000

the argument that it is an interstellar

1705

01:02:24,870 --> 01:02:22,799

object with an anomalous composition

1706

01:02:26,150 --> 01:02:24,880

breaking up in orbit that you know i'm

1707

01:02:29,270 --> 01:02:26,160

quite for somebody if they stop then

1708

01:02:30,789 --> 01:02:29,280

just say well that in itself is massive

1709

01:02:32,710 --> 01:02:30,799

even if they go no further than that

1710

01:02:34,950 --> 01:02:32,720

because that's an entire new class of

1711

01:02:37,190 --> 01:02:34,960

objects and the earliest known example

1712

01:02:39,670 --> 01:02:37,200

of an interstellar you know object

1713

01:02:41,510 --> 01:02:39,680

arriving here and it's doing strange

1714

01:02:43,029 --> 01:02:41,520

things so that's what i'd suggest to

1715

01:02:45,029 --> 01:02:43,039

anyone who's who doesn't want to go

1716

01:02:46,950 --> 01:02:45,039

there with any of the other elements

1717

01:02:49,430 --> 01:02:46,960

just ponder that for a moment and by all

1718

01:02:51,109 --> 01:02:49,440

means check check everything i'm saying

1719

01:02:52,069 --> 01:02:51,119

look at the papers you know if you have

1720

01:02:54,390 --> 01:02:52,079

a question

1721

01:02:56,150 --> 01:02:54,400

ask me

1722

01:02:58,069 --> 01:02:56,160

how about that you know

1723

01:03:00,390 --> 01:02:58,079

the most some of the most important

1724

01:03:01,910 --> 01:03:00,400

research we could possibly do and you

1725

01:03:04,549 --> 01:03:01,920

can ask them a question that's just

1726

01:03:05,829 --> 01:03:04,559

fantastic talk about human accelerated

1727

01:03:06,789 --> 01:03:05,839

regions

1728

01:03:08,870 --> 01:03:06,799

sure

1729

01:03:10,789 --> 01:03:08,880

so i mean i i personally think that you

1730

01:03:13,430 --> 01:03:10,799

know the genomic seti aspect in the

1731

01:03:14,630 --> 01:03:13,440

story is absolutely fascinating and

1732

01:03:17,190 --> 01:03:14,640

amazing something we should definitely

1733

01:03:18,710 --> 01:03:17,200

be going into and a few years ago and

1734

01:03:20,470 --> 01:03:18,720

just before i appreciate it a little bit

1735

01:03:22,150 --> 01:03:20,480

a few years a couple years ago now i'm

1736

01:03:24,950 --> 01:03:22,160

not sure exactly when i managed to get a

1737

01:03:27,270 --> 01:03:24,960

question put to sep shostak i think most

1738

01:03:28,710 --> 01:03:27,280

people if you're into these topics have

1739

01:03:31,510 --> 01:03:28,720

probably heard of steph shostak you know

1740

01:03:34,390 --> 01:03:31,520

he's seti um he's josetti foundation's

1741

01:03:36,309 --> 01:03:34,400

most um senior astronomer

1742

01:03:38,150 --> 01:03:36,319

and so you know he's often the voice of

1743

01:03:39,349 --> 01:03:38,160

seti you know so

1744

01:03:41,670 --> 01:03:39,359

i managed to get a question put to him

1745

01:03:43,589 --> 01:03:41,680

by mick west the famous kind of ufo de

1746

01:03:45,349 --> 01:03:43,599

bunker on his radio show and i thought

1747

01:03:48,230 --> 01:03:45,359

that was kind of amazing

1748

01:03:50,710 --> 01:03:48,240

it's been part of my story at all um and

1749

01:03:53,270 --> 01:03:50,720

so mick asked him what he thought of

1750

01:03:55,430 --> 01:03:53,280

basically um genomic seti which is

1751

01:03:58,870 --> 01:03:55,440

investigating genomics to see if there

1752

01:04:00,789 --> 01:03:58,880

is any evidence of genetic manipulation

1753

01:04:02,390 --> 01:04:00,799

you know any organisms on this planet

1754

01:04:04,390 --> 01:04:02,400

and he kind of confirms what i already

1755

01:04:06,150 --> 01:04:04,400

knew he says yes you know

1756

01:04:08,470 --> 01:04:06,160

professor paul davies

1757

01:04:10,630 --> 01:04:08,480

esteemed kind of uh astrophysicist

1758

01:04:12,309 --> 01:04:10,640

mathematician has said for years yes we

1759

01:04:13,430 --> 01:04:12,319

could do this and maybe there's you know

1760

01:04:15,109 --> 01:04:13,440

i'm paraphrasing but you know saying

1761

01:04:17,829 --> 01:04:15,119

that yes this is worthwhile doing and

1762

01:04:19,829 --> 01:04:17,839

that is it's easy it's cheap it could

1763

01:04:22,069 --> 01:04:19,839

probably be done by a graduate student

1764

01:04:23,750 --> 01:04:22,079

in a couple of weeks and then the bit

1765

01:04:25,990 --> 01:04:23,760

that everyone should be thinking well

1766

01:04:27,750 --> 01:04:26,000

why haven't you done it i mean these

1767

01:04:29,750 --> 01:04:27,760

people have had millions of dollars

1768

01:04:31,990 --> 01:04:29,760

right spent on radio astronomy and

1769

01:04:33,910 --> 01:04:32,000

they've got nowhere with it

1770

01:04:35,510 --> 01:04:33,920

nothing has come out of that in terms of

1771

01:04:37,829 --> 01:04:35,520

finding evidence of aliens and he's

1772

01:04:39,829 --> 01:04:37,839

seeing that and he has the full faith to

1773

01:04:42,230 --> 01:04:39,839

say they could have got some grad

1774

01:04:44,870 --> 01:04:42,240

student to do this project over a couple

1775

01:04:47,349 --> 01:04:44,880

of weeks with almost let's be honest no

1776

01:04:49,910 --> 01:04:47,359

costs because how many people how many

1777

01:04:52,950 --> 01:04:49,920

grand salads that if if you think of

1778

01:04:54,789 --> 01:04:52,960

esteemed voices like paul davies and the

1779

01:04:56,950 --> 01:04:54,799

seth shostak reached out to the

1780

01:04:58,789 --> 01:04:56,960

community of science and said we just

1781

01:05:00,870 --> 01:04:58,799

need a couple of grad students to go

1782

01:05:03,270 --> 01:05:00,880

over the literature and see if there's

1783

01:05:05,670 --> 01:05:03,280

any anomalies in genetics that might

1784

01:05:08,230 --> 01:05:05,680

indicate possible tampering in the past

1785

01:05:10,470 --> 01:05:08,240

they would have had thousands of people

1786

01:05:12,150 --> 01:05:10,480

offering to do that this relates back to

1787

01:05:13,589 --> 01:05:12,160

the point we were talking about earlier

1788

01:05:16,309 --> 01:05:13,599

and it probably seemed incredibly

1789

01:05:19,109 --> 01:05:16,319

tangential to people but you've just

1790

01:05:21,430 --> 01:05:19,119

made it relevant which is that once you

1791

01:05:24,230 --> 01:05:21,440

probe deeper like you have

1792

01:05:26,630 --> 01:05:24,240

then everything looks different

1793

01:05:29,750 --> 01:05:26,640

and in particular what all that looks

1794

01:05:32,630 --> 01:05:29,760

like is as a social engineering mind

1795

01:05:35,750 --> 01:05:32,640

control misinformation disinformation

1796

01:05:37,510 --> 01:05:35,760

distraction campaign it's not real for

1797

01:05:39,990 --> 01:05:37,520

all the reasons that you just said is

1798

01:05:42,069 --> 01:05:40,000

because it's very doable science it

1799

01:05:45,270 --> 01:05:42,079

could be done so the fact that it isn't

1800

01:05:48,309 --> 01:05:45,280

done can only mean one thing that it's

1801  
01:05:49,430 --> 01:05:48,319  
there's a purpose behind it not being

1802  
01:05:50,549 --> 01:05:49,440  
done

1803  
01:05:53,270 --> 01:05:50,559  
right

1804  
01:05:55,270 --> 01:05:53,280  
he makes you look that way at it because

1805  
01:05:57,430 --> 01:05:55,280  
it's so you know to anyone listening

1806  
01:05:59,589 --> 01:05:57,440  
inside it's so glaring for someone like

1807  
01:06:01,349 --> 01:05:59,599  
that to say that and then it took not

1808  
01:06:03,349 --> 01:06:01,359  
been done saying yeah it's reasonable

1809  
01:06:04,470 --> 01:06:03,359  
yes we've talked about it but nobody's

1810  
01:06:06,390 --> 01:06:04,480  
done it i mean

1811  
01:06:07,910 --> 01:06:06,400  
that should make everyone question what

1812  
01:06:09,430 --> 01:06:07,920  
the hell is going on in this search for

1813  
01:06:10,870 --> 01:06:09,440

extraterrestrial intelligence then you

1814

01:06:13,109 --> 01:06:10,880

know if there's simple projects being

1815

01:06:14,950 --> 01:06:13,119

ignored let me make sure we frame this

1816

01:06:17,349 --> 01:06:14,960

up correctly we're talking about kind of

1817

01:06:19,990 --> 01:06:17,359

this third element this third

1818

01:06:22,390 --> 01:06:20,000

leg of evidence that could support the

1819

01:06:25,029 --> 01:06:22,400

chiringa kind of thing so

1820

01:06:26,870 --> 01:06:25,039

one of the things is that there's this

1821

01:06:28,549 --> 01:06:26,880

big bombardment we really didn't talk

1822

01:06:30,630 --> 01:06:28,559

about number two you mentioned it in

1823

01:06:32,950 --> 01:06:30,640

passing that you couldn't have known

1824

01:06:35,270 --> 01:06:32,960

about the the bombardment of the

1825

01:06:37,190 --> 01:06:35,280

asteroids in the war which we'll talk

1826  
01:06:38,789 --> 01:06:37,200  
about maybe last because i think that's

1827  
01:06:40,309 --> 01:06:38,799  
super important too

1828  
01:06:43,109 --> 01:06:40,319  
in terms of culture

1829  
01:06:44,309 --> 01:06:43,119  
in terms of goody tea batty tea save the

1830  
01:06:46,630 --> 01:06:44,319  
planet

1831  
01:06:49,109 --> 01:06:46,640  
and now what does this story tell us

1832  
01:06:50,950 --> 01:06:49,119  
no that's that that quickly goes away

1833  
01:06:53,589 --> 01:06:50,960  
when we have

1834  
01:06:55,910 --> 01:06:53,599  
petty differences between fiefdoms which

1835  
01:06:57,750 --> 01:06:55,920  
doesn't that again resonate with talk

1836  
01:06:59,349 --> 01:06:57,760  
about rhyming with history how many

1837  
01:07:01,430 --> 01:06:59,359  
times have we seen that it's like you

1838  
01:07:04,630 --> 01:07:01,440

might destroy the planet i don't give a

1839

01:07:07,910 --> 01:07:04,640

i want him out of there i want my i

1840

01:07:11,670 --> 01:07:07,920

want me to dominate right and now that's

1841

01:07:13,430 --> 01:07:11,680

ringing true 780 000 years ago so i'm

1842

01:07:15,990 --> 01:07:13,440

gonna put that aside for a minute

1843

01:07:17,990 --> 01:07:16,000

because we opened up the genetics thing

1844

01:07:21,510 --> 01:07:18,000

what is the information from the

1845

01:07:24,230 --> 01:07:21,520

charinga that were the basic story the

1846

01:07:25,190 --> 01:07:24,240

narrative that we're going to try and

1847

01:07:27,750 --> 01:07:25,200

find

1848

01:07:29,190 --> 01:07:27,760

if there's any basis for in this in this

1849

01:07:31,870 --> 01:07:29,200

very narrow time window now because

1850

01:07:35,510 --> 01:07:31,880

we're at 788 000 years it has to be in

1851  
01:07:38,390 --> 01:07:35,520  
788 000 years what is the it that has to

1852  
01:07:41,589 --> 01:07:38,400  
be in 788 000 years right so what they

1853  
01:07:43,270 --> 01:07:41,599  
describe is that there are some crew on

1854  
01:07:44,630 --> 01:07:43,280  
this ai craft

1855  
01:07:46,309 --> 01:07:44,640  
that's what they're saying now i can't

1856  
01:07:48,069 --> 01:07:46,319  
suspect it because you won't find that i

1857  
01:07:49,589 --> 01:07:48,079  
don't think we're going to find bones or

1858  
01:07:51,750 --> 01:07:49,599  
you know some astronauts out there it's

1859  
01:07:53,589 --> 01:07:51,760  
too long ago but there is the claim that

1860  
01:07:56,390 --> 01:07:53,599  
there are some survivors that they come

1861  
01:07:58,789 --> 01:07:56,400  
down in craft smaller craft and that

1862  
01:08:00,549 --> 01:07:58,799  
although they cannot live here long term

1863  
01:08:02,630 --> 01:08:00,559

because they again some of this makes a

1864

01:08:04,470 --> 01:08:02,640

lot of sense to me is that they clarify

1865

01:08:07,270 --> 01:08:04,480

that they use genetic engineering

1866

01:08:10,710 --> 01:08:07,280

technologies on themselves so that they

1867

01:08:12,470 --> 01:08:10,720

can inhabit other worlds now again nasa

1868

01:08:14,069 --> 01:08:12,480

is actually exploring this today so talk

1869

01:08:16,390 --> 01:08:14,079

about the games looping around decided

1870

01:08:18,070 --> 01:08:16,400

that we may need to modify astronauts to

1871

01:08:20,149 --> 01:08:18,080

send them to live on mars and stuff

1872

01:08:22,229 --> 01:08:20,159

because we're not suited to other

1873

01:08:24,149 --> 01:08:22,239

planets right for a lot of reasons

1874

01:08:25,669 --> 01:08:24,159

so this and they do this they use these

1875

01:08:27,829 --> 01:08:25,679

advanced net engineering technologies on

1876

01:08:29,269 --> 01:08:27,839

themselves so that they can live on

1877

01:08:31,430 --> 01:08:29,279

worlds where the atmospheres and the

1878

01:08:33,269 --> 01:08:31,440

gravity and stuff are different

1879

01:08:35,030 --> 01:08:33,279

now they haven't had time to do this

1880

01:08:37,590 --> 01:08:35,040

before their ship is basically destroyed

1881

01:08:39,510 --> 01:08:37,600

as we come to so they are partially

1882

01:08:40,870 --> 01:08:39,520

changed but not enough to live here so

1883

01:08:43,590 --> 01:08:40,880

they tried they're dying from things

1884

01:08:45,990 --> 01:08:43,600

like bacteria in the water the levels of

1885

01:08:47,829 --> 01:08:46,000

solar radiation really like conventional

1886

01:08:49,510 --> 01:08:47,839

problems that we would have going to an

1887

01:08:51,189 --> 01:08:49,520

alien world so again there's logic to

1888

01:08:52,550 --> 01:08:51,199

this not necessarily the aliens land and

1889

01:08:53,990 --> 01:08:52,560

they can all breathe and they can eat

1890

01:08:55,110 --> 01:08:54,000

the food which again there's you know

1891

01:08:55,829 --> 01:08:55,120

people should question those kind of

1892

01:08:57,590 --> 01:08:55,839

stories

1893

01:08:59,430 --> 01:08:57,600

why would that be the case but then they

1894

01:09:01,030 --> 01:08:59,440

they have a problem and so they come to

1895

01:09:03,189 --> 01:09:01,040

this collusion is that what they can do

1896

01:09:05,990 --> 01:09:03,199

is with the remnants of their technology

1897

01:09:08,470 --> 01:09:06,000

is that they can modify an existing

1898

01:09:11,189 --> 01:09:08,480

hominin to make it more like them

1899

01:09:14,550 --> 01:09:11,199

upgrade it change it and set it on a

1900

01:09:17,669 --> 01:09:14,560

path to become like them and they feel

1901

01:09:19,990 --> 01:09:17,679

that that is a you know a worthy plan b

1902

01:09:22,070 --> 01:09:20,000

to their kind of colonizing this planet

1903

01:09:24,870 --> 01:09:22,080

if you like so this is the you know it's

1904

01:09:27,189 --> 01:09:24,880

not the plan it's the plan b and so they

1905

01:09:29,030 --> 01:09:27,199

describe taking some early what we'll

1906

01:09:31,749 --> 01:09:29,040

think of now as you know archaic commons

1907

01:09:33,189 --> 01:09:31,759

or super arcade hominins and taking them

1908

01:09:35,110 --> 01:09:33,199

and in a lab

1909

01:09:37,910 --> 01:09:35,120

taking embryos modifying and putting

1910

01:09:40,709 --> 01:09:37,920

these fetuses back in to be born so

1911

01:09:42,390 --> 01:09:40,719

modifying fetuses and implanting and

1912

01:09:43,990 --> 01:09:42,400

creating a new kind of human and

1913

01:09:45,189 --> 01:09:44,000

describe that some of these pro some of

1914

01:09:46,229 --> 01:09:45,199

these experiments don't go well they

1915

01:09:48,870 --> 01:09:46,239

said a lot of their technology's been

1916

01:09:51,430 --> 01:09:48,880

lost in this loss of the main ship so

1917

01:09:52,950 --> 01:09:51,440

they are working with what they have so

1918

01:09:54,390 --> 01:09:52,960

some of these initial experiments go

1919

01:09:56,390 --> 01:09:54,400

wrong again they're not perfect they're

1920

01:09:57,990 --> 01:09:56,400

not gods who can just do whatever they

1921

01:09:59,830 --> 01:09:58,000

have the same problems we might have

1922

01:10:01,189 --> 01:09:59,840

with technologies you know that doesn't

1923

01:10:03,030 --> 01:10:01,199

always work out

1924

01:10:04,630 --> 01:10:03,040

so again i found that quite consistent

1925

01:10:06,550 --> 01:10:04,640

and logical a lot of that is quite

1926

01:10:08,630 --> 01:10:06,560

logically consistent with reality

1927

01:10:10,390 --> 01:10:08,640

well i knew that you'd have to look in a

1928

01:10:12,070 --> 01:10:10,400

certain area of the genome

1929

01:10:13,350 --> 01:10:12,080

in particular and that's in what's

1930

01:10:15,030 --> 01:10:13,360

called

1931

01:10:18,310 --> 01:10:15,040

highly conserved

1932

01:10:19,990 --> 01:10:18,320

non-coding dna regions

1933

01:10:21,590 --> 01:10:20,000

and the reason for that is that if

1934

01:10:23,669 --> 01:10:21,600

you're looking at genes

1935

01:10:25,430 --> 01:10:23,679

those change due to

1936

01:10:28,630 --> 01:10:25,440

normal kind of selective pressures right

1937

01:10:30,630 --> 01:10:28,640

so over time genes change anything

1938

01:10:31,750 --> 01:10:30,640

obvious from engineering would almost

1939

01:10:33,750 --> 01:10:31,760

certainly be

1940

01:10:35,910 --> 01:10:33,760

like lost so

1941

01:10:39,510 --> 01:10:35,920

you have to look for areas where

1942

01:10:42,790 --> 01:10:39,520

the information stays very stable

1943

01:10:45,510 --> 01:10:42,800

you're building on existing science and

1944

01:10:47,430 --> 01:10:45,520

existing scientific questions and

1945

01:10:49,350 --> 01:10:47,440

challenges that the quote unquote

1946

01:10:51,830 --> 01:10:49,360

mainstream is trying to solve because

1947

01:10:55,189 --> 01:10:51,840

you didn't come up with these

1948

01:10:56,709 --> 01:10:55,199

human accelerated regions this 121

1949

01:10:58,790 --> 01:10:56,719

sequence i mean

1950

01:11:01,590 --> 01:10:58,800

scientists have done it for a reason

1951

01:11:03,750 --> 01:11:01,600

that for their own reason right

1952

01:11:05,270 --> 01:11:03,760

yeah i mean my says they sort of

1953

01:11:06,950 --> 01:11:05,280

stumbled on this so i don't think it was

1954

01:11:09,669 --> 01:11:06,960

setting out necessarily they stumbled on

1955

01:11:12,229 --> 01:11:09,679

these regions where they realized that

1956

01:11:13,910 --> 01:11:12,239

you know in a comparative studies that

1957

01:11:15,110 --> 01:11:13,920

some of these segments of highly

1958

01:11:16,550 --> 01:11:15,120

conserved

1959

01:11:17,590 --> 01:11:16,560

code

1960

01:11:18,790 --> 01:11:17,600

differ

1961

01:11:20,470 --> 01:11:18,800

massively

1962

01:11:23,030 --> 01:11:20,480

to expectations you know so when you

1963

01:11:24,790 --> 01:11:23,040

contrast and it's my favorite example

1964

01:11:26,709 --> 01:11:24,800

is always this one with the hal1 which

1965

01:11:28,950 --> 01:11:26,719

is the first human accelerated region to

1966

01:11:31,669 --> 01:11:28,960

be discovered where they had

1967

01:11:34,310 --> 01:11:31,679

cross-referenced chickens chimpanzees

1968

01:11:36,550 --> 01:11:34,320

and humans and what they found was that

1969

01:11:39,350 --> 01:11:36,560

basically that in the chicken and the

1970

01:11:42,709 --> 01:11:39,360

chimpanzee this short segment i think so

1971

01:11:44,390 --> 01:11:42,719

it's 118 dna letters long which is very

1972

01:11:47,350 --> 01:11:44,400

short especially in terms of glutamate

1973

01:11:50,070 --> 01:11:47,360

genes that would be very short so that

1974

01:11:51,750 --> 01:11:50,080

in these two species there were two

1975

01:11:53,030 --> 01:11:51,760

letters that were different now the

1976

01:11:54,709 --> 01:11:53,040

chimp and the

1977

01:11:57,750 --> 01:11:54,719

chimpanzee so the chicken and the

1978

01:12:00,390 --> 01:11:57,760

chimpanzee have been evolving separately

1979

01:12:03,430 --> 01:12:00,400

for at least 300 million years

1980

01:12:05,750 --> 01:12:03,440

right so that's one successful stable

1981

01:12:08,709 --> 01:12:05,760

change you know one letter changing for

1982

01:12:10,790 --> 01:12:08,719

every 150 million years

1983

01:12:13,110 --> 01:12:10,800

so the reason this pops up is they go

1984

01:12:15,910 --> 01:12:13,120

whoa this is interesting here's kind of

1985

01:12:18,310 --> 01:12:15,920

anomaly this sequence here it doesn't

1986

01:12:21,430 --> 01:12:18,320

change at all i mean changes two times

1987

01:12:23,669 --> 01:12:21,440

in 300 million years that's curious what

1988

01:12:25,910 --> 01:12:23,679

can we do with it absolutely yeah i mean

1989

01:12:27,510 --> 01:12:25,920

we've we've now got you know

1990

01:12:28,870 --> 01:12:27,520

well the whole genome has been mapped

1991

01:12:31,510 --> 01:12:28,880

for example in humans so i mean we're at

1992

01:12:34,229 --> 01:12:31,520

a point where the knowledge now is you

1993

01:12:36,390 --> 01:12:34,239

know really vast and really intricate so

1994

01:12:38,950 --> 01:12:36,400

they're able to do these kinds of you

1995

01:12:41,430 --> 01:12:38,960

know uh detailed contrast between

1996

01:12:42,950 --> 01:12:41,440

species and so we understand you know

1997

01:12:44,390 --> 01:12:42,960

the differences between us and a chimp

1998

01:12:46,550 --> 01:12:44,400

and the difference between us and uh you

1999

01:12:47,750 --> 01:12:46,560

know we've got this point where they can

2000

01:12:49,830 --> 01:12:47,760

you know you can look for segments of

2001

01:12:52,390 --> 01:12:49,840

code and contrast them going back

2002

01:12:54,870 --> 01:12:52,400

to when when were we

2003

01:12:56,149 --> 01:12:54,880

last very alike to that creature so you

2004

01:12:57,350 --> 01:12:56,159

know we're able to trace it back and say

2005

01:12:59,189 --> 01:12:57,360

that you know see

2006

01:13:01,350 --> 01:12:59,199

this is the only difference is this

2007

01:13:03,030 --> 01:13:01,360

isn't this between us and you know uh

2008

01:13:04,310 --> 01:13:03,040

then an aardvark or whatever so we can

2009

01:13:06,070 --> 01:13:04,320

do that so they're doing this they use

2010

01:13:08,310 --> 01:13:06,080

this segment to then contrast and they

2011

01:13:09,990 --> 01:13:08,320

can find that okay yes you know you know

2012

01:13:12,470 --> 01:13:10,000

chicken and chimpanzee

2013

01:13:14,310 --> 01:13:12,480

super stable two changes that's amazing

2014

01:13:16,310 --> 01:13:14,320

must do something very important

2015

01:13:19,669 --> 01:13:16,320

otherwise you'll be lost you'll change

2016

01:13:23,030 --> 01:13:19,679

more so clearly small changes in it

2017

01:13:24,310 --> 01:13:23,040

must have quite drastic outcomes like it

2018

01:13:25,910 --> 01:13:24,320

dies

2019

01:13:27,430 --> 01:13:25,920

you know because why wouldn't these

2020

01:13:29,350 --> 01:13:27,440

changes keep happening and persist why

2021

01:13:31,510 --> 01:13:29,360

is there only two successful ones in 300

2022

01:13:33,270 --> 01:13:31,520

million years that code must be doing

2023

01:13:34,550 --> 01:13:33,280

something quite important

2024

01:13:37,110 --> 01:13:34,560

so

2025

01:13:39,110 --> 01:13:37,120

then if you look at chimps and humans

2026

01:13:41,750 --> 01:13:39,120

you expect it to be identical that's

2027

01:13:44,550 --> 01:13:41,760

because you know 300 million years for

2028

01:13:46,070 --> 01:13:44,560

chicken and chimp but only about seven

2029

01:13:47,990 --> 01:13:46,080

or eight million years difference

2030

01:13:49,910 --> 01:13:48,000

between us and chimps that's

2031

01:13:50,630 --> 01:13:49,920

conventional understanding is it as it

2032

01:13:52,229 --> 01:13:50,640

is

2033

01:13:53,830 --> 01:13:52,239

so you would expect there to be none

2034

01:13:56,149 --> 01:13:53,840

because it's not the 150 million years

2035

01:13:58,390 --> 01:13:56,159

required for one letter to change so

2036

01:14:01,189 --> 01:13:58,400

what they found instead though was that

2037

01:14:03,430 --> 01:14:01,199

18 letters had changed

2038

01:14:06,070 --> 01:14:03,440

so that was just wildly outside the

2039

01:14:07,350 --> 01:14:06,080

ballpark of what should have been

2040

01:14:09,590 --> 01:14:07,360

observed

2041

01:14:11,669 --> 01:14:09,600

you're talking about statistics and you

2042

01:14:13,750 --> 01:14:11,679

can put that in the hand of some static

2043

01:14:16,070 --> 01:14:13,760

statistician and they can say boom and

2044

01:14:18,870 --> 01:14:16,080

then they can compare that with 7 8

2045

01:14:21,110 --> 01:14:18,880

million years 18 changes they can crank

2046

01:14:22,550 --> 01:14:21,120

that out in their excel spreadsheet not

2047

01:14:25,830 --> 01:14:22,560

an excel spreadsheet but you get the

2048

01:14:27,910 --> 01:14:25,840

point and it comes out with a statistic

2049

01:14:29,990 --> 01:14:27,920

that everyone would point to and say

2050

01:14:33,350 --> 01:14:30,000

yeah that's that's the math that's what

2051

01:14:35,910 --> 01:14:33,360

it is and the number is astronomically

2052

01:14:38,310 --> 01:14:35,920

high that that would be by chance right

2053

01:14:41,270 --> 01:14:38,320

is that oversimplifying it no absolutely

2054

01:14:43,030 --> 01:14:41,280

and in fact the the discoverer of human

2055

01:14:45,189 --> 01:14:43,040

accelerated region one

2056

01:14:46,709 --> 01:14:45,199

um name's one of my life mode but she is

2057

01:14:48,669 --> 01:14:46,719

herself i think it's professor pollard

2058

01:14:51,430 --> 01:14:48,679

i'm not that wrong but she is herself a

2059

01:14:53,189 --> 01:14:51,440

biostatistician who helps design the

2060

01:14:54,950 --> 01:14:53,199

programs that work out these kind of

2061

01:14:57,510 --> 01:14:54,960

chances right so she does not you know

2062

01:14:59,030 --> 01:14:57,520

she worked on to help

2063

01:15:01,270 --> 01:14:59,040

understand the likelihood of that

2064

01:15:03,110 --> 01:15:01,280

happening and so and that came out as

2065

01:15:04,310 --> 01:15:03,120

essentially zero that's what you know

2066

01:15:06,070 --> 01:15:04,320

she wrote it's you know i think you see

2067

01:15:07,669 --> 01:15:06,080

an american scientist or new science 20s

2068

01:15:09,750 --> 01:15:07,679

magazines but she's saying basically it

2069

01:15:12,550 --> 01:15:09,760

comes out as essentially zero

2070

01:15:14,950 --> 01:15:12,560

so by any understood

2071

01:15:16,390 --> 01:15:14,960

means of evolution that should not be

2072

01:15:18,070 --> 01:15:16,400

the case so they're saying something we

2073

01:15:20,310 --> 01:15:18,080

don't understand

2074

01:15:21,990 --> 01:15:20,320

is acting upon these segments

2075

01:15:23,430 --> 01:15:22,000

right so that's where they were at when

2076

01:15:25,830 --> 01:15:23,440

they discovered it and obviously there's

2077

01:15:27,270 --> 01:15:25,840

been a series of papers now on h on

2078

01:15:29,430 --> 01:15:27,280

human accelerated regions they found

2079

01:15:31,030 --> 01:15:29,440

many more of them there are at least

2080

01:15:33,350 --> 01:15:31,040

several hundred

2081

01:15:34,630 --> 01:15:33,360

now some of them are understood a bit

2082

01:15:36,070 --> 01:15:34,640

some of them have no understanding just

2083

01:15:38,550 --> 01:15:36,080

know that they're there so in other

2084

01:15:40,790 --> 01:15:38,560

words what they have found is that

2085

01:15:42,550 --> 01:15:40,800

most of the ones where they have some

2086

01:15:44,870 --> 01:15:42,560

understanding what we do

2087

01:15:47,510 --> 01:15:44,880

are tied up with

2088

01:15:48,950 --> 01:15:47,520

uh brain changes during fetal

2089

01:15:52,390 --> 01:15:48,960

development

2090

01:15:55,030 --> 01:15:52,400

and i and i think that's massive

2091

01:15:56,790 --> 01:15:55,040

okay is there any way to tie any of this

2092

01:15:58,950 --> 01:15:56,800

and i know there is because i've

2093

01:16:02,550 --> 01:15:58,960

read and listened your stuff

2094

01:16:04,709 --> 01:16:02,560

to some of the dates we're talking about

2095

01:16:06,310 --> 01:16:04,719

yeah because we've got

2096

01:16:09,189 --> 01:16:06,320

none of these changes there's some other

2097

01:16:10,229 --> 01:16:09,199

uh interesting genes that occur you know

2098

01:16:11,350 --> 01:16:10,239

that appear well there's one that's

2099

01:16:13,350 --> 01:16:11,360

actually described brain gene that's

2100

01:16:15,110 --> 01:16:13,360

occurred as appearing fully formed from

2101

01:16:17,590 --> 01:16:15,120

non-coding dna

2102

01:16:18,790 --> 01:16:17,600

uh which i think gives it the neocortex

2103

01:16:20,390 --> 01:16:18,800

and then there's another one there's a

2104

01:16:22,550 --> 01:16:20,400

segment of a gene so there's also these

2105

01:16:24,709 --> 01:16:22,560

as well as hr's there are genes and

2106

01:16:26,229 --> 01:16:24,719

segments of genes and also the fusion of

2107

01:16:27,990 --> 01:16:26,239

chromosome two all of these things are

2108

01:16:29,110 --> 01:16:28,000

really important to what if you look

2109

01:16:31,910 --> 01:16:29,120

into it these are the things that

2110

01:16:34,470 --> 01:16:31,920

consider to make humans what they are

2111

01:16:35,669 --> 01:16:34,480

big brains a opposite firms you know all

2112

01:16:37,189 --> 01:16:35,679

this stuff that makes us different to

2113

01:16:39,270 --> 01:16:37,199

all the other primates

2114

01:16:40,630 --> 01:16:39,280

but so what we understand because dating

2115

01:16:42,790 --> 01:16:40,640

some of these changes difficult at the

2116

01:16:45,990 --> 01:16:42,800

genetic level to be precise but what we

2117

01:16:48,709 --> 01:16:46,000

do know is that from the fossil record

2118

01:16:51,910 --> 01:16:48,719

it was already understood that around

2119

01:16:54,790 --> 01:16:51,920

about 800 000 years ago there is an

2120

01:16:57,510 --> 01:16:54,800

inexplicable sudden change in the

2121

01:16:58,470 --> 01:16:57,520

cranial capacity of humans

2122

01:17:00,229 --> 01:16:58,480

and so

2123

01:17:02,550 --> 01:17:00,239

for many years before the field of

2124

01:17:04,470 --> 01:17:02,560

genetics there was big questions over

2125

01:17:06,790 --> 01:17:04,480

what was happening then so in other

2126

01:17:09,110 --> 01:17:06,800

words we now know of course that those

2127

01:17:11,990 --> 01:17:09,120

changes are expressions of genetic

2128

01:17:15,030 --> 01:17:12,000

change so we can see the physical shift

2129

01:17:17,270 --> 01:17:15,040

underway that has to be tied to these

2130

01:17:18,870 --> 01:17:17,280

genetic changes so though you can't

2131

01:17:19,910 --> 01:17:18,880

pinpoint daytona we know again some of

2132

01:17:21,990 --> 01:17:19,920

them are dated

2133

01:17:23,750 --> 01:17:22,000

somewhere towards a million years or

2134

01:17:24,950 --> 01:17:23,760

somewhere in the age of you know it's

2135

01:17:27,189 --> 01:17:24,960

difficult to be that precise but when

2136

01:17:29,669 --> 01:17:27,199

you can see the physical changes we can

2137

01:17:31,590 --> 01:17:29,679

date those in the fossil record so we

2138

01:17:34,709 --> 01:17:31,600

know that this radical change in the

2139

01:17:37,590 --> 01:17:34,719

human brain goes underway around about

2140

01:17:40,070 --> 01:17:37,600

800 000 years ago now whilst we know is

2141

01:17:43,270 --> 01:17:40,080

of course is that now we understand that

2142

01:17:46,630 --> 01:17:43,280

neanderthals denisovans and the direct

2143

01:17:49,750 --> 01:17:46,640

answers to modern humans right the the

2144

01:17:51,750 --> 01:17:49,760

the divergence it's like the formation

2145

01:17:54,229 --> 01:17:51,760

of these different groups the divergence

2146

01:17:55,350 --> 01:17:54,239

from the archaic ancestors that is

2147

01:17:57,990 --> 01:17:55,360

happening

2148

01:18:00,790 --> 01:17:58,000

roughly 700 to 800 000 years ago

2149

01:18:03,750 --> 01:18:00,800

depending on who you look at paper and

2150

01:18:05,750 --> 01:18:03,760

what did we think that date was

2151

01:18:07,910 --> 01:18:05,760

20 years ago or when you started this

2152

01:18:08,790 --> 01:18:07,920

research because the dates shifted right

2153

01:18:11,350 --> 01:18:08,800

yeah

2154

01:18:12,790 --> 01:18:11,360

about 400 000 or so years ago so this is

2155

01:18:14,790 --> 01:18:12,800

totally different so if you would say

2156

01:18:16,550 --> 01:18:14,800

ten years ago you know oh you know i

2157

01:18:18,229 --> 01:18:16,560

know someone modified us and they

2158

01:18:19,910 --> 01:18:18,239

created us in trousers

2159

01:18:21,990 --> 01:18:19,920

i know because you know neanderthals on

2160

01:18:24,390 --> 01:18:22,000

us we don't really separate until 400

2161

01:18:26,709 --> 01:18:24,400

000 years ago uh the beginnings of our

2162

01:18:28,229 --> 01:18:26,719

species are probably 500 000 years ago

2163

01:18:30,390 --> 01:18:28,239

so this has shifted back just in the

2164

01:18:32,070 --> 01:18:30,400

last few years so we now understand

2165

01:18:34,149 --> 01:18:32,080

actually no there's evidence from

2166

01:18:35,910 --> 01:18:34,159

proteins from genes from you know and

2167

01:18:37,189 --> 01:18:35,920

from the fossil record from teeth as

2168

01:18:39,110 --> 01:18:37,199

well they're looking at where they've

2169

01:18:41,030 --> 01:18:39,120

they've now got enough evidence to say

2170

01:18:44,229 --> 01:18:41,040

well based on everything that we now

2171

01:18:47,030 --> 01:18:44,239

have we can see that this this split

2172

01:18:48,870 --> 01:18:47,040

from these archaics towards these large

2173

01:18:51,030 --> 01:18:48,880

brained humans so includes obviously

2174

01:18:53,350 --> 01:18:51,040

neanderthals denisovans and us that that

2175

01:18:55,350 --> 01:18:53,360

is occurring roughly seven to eight

2176

01:18:57,270 --> 01:18:55,360

hundred thousand years ago and the

2177

01:18:59,430 --> 01:18:57,280

dating on the chromosome two fusion

2178

01:19:00,950 --> 01:18:59,440

which had another key change

2179

01:19:02,950 --> 01:19:00,960

that has been dated by at least one

2180

01:19:05,350 --> 01:19:02,960

british biologist as being around about

2181

01:19:06,950 --> 01:19:05,360

750 or so thousand years ago because you

2182

01:19:08,390 --> 01:19:06,960

can see it happens at the beginning of

2183

01:19:10,229 --> 01:19:08,400

this split between neanderthals and

2184

01:19:11,189 --> 01:19:10,239

dinosaurs they all have it as well but

2185

01:19:12,950 --> 01:19:11,199

that is happening at the beginning of

2186

01:19:15,510 --> 01:19:12,960

that split so we know that there's these

2187

01:19:18,630 --> 01:19:15,520

things are occurring and we can see the

2188

01:19:20,550 --> 01:19:18,640

changes happening physically here so

2189

01:19:21,669 --> 01:19:20,560

that's the interesting addition that you

2190

01:19:23,189 --> 01:19:21,679

know rather than saying something like a

2191

01:19:24,790 --> 01:19:23,199

million years according to genetics we

2192

01:19:26,390 --> 01:19:24,800

can say well let's look at the skulls

2193

01:19:28,870 --> 01:19:26,400

let's see what's going on we can see

2194

01:19:30,550 --> 01:19:28,880

this radical shift um the cranial

2195

01:19:33,590 --> 01:19:30,560

capacity just accelerates massively

2196

01:19:36,149 --> 01:19:33,600

beyond body size changes where in the

2197

01:19:38,709 --> 01:19:36,159

past you could sort of track body size

2198

01:19:40,470 --> 01:19:38,719

increase which skull capacity increase

2199

01:19:41,990 --> 01:19:40,480

so if you look around 8500 on the chart

2200

01:19:43,910 --> 01:19:42,000

and there are charts people look at this

2201

01:19:46,390 --> 01:19:43,920

there's a sudden acceleration in this

2202

01:19:47,590 --> 01:19:46,400

screen of capacity so again you can mesh

2203

01:19:49,750 --> 01:19:47,600

physical

2204

01:19:51,350 --> 01:19:49,760

with genetics which is really i think

2205

01:19:54,550 --> 01:19:51,360

crucial

2206

01:19:55,510 --> 01:19:54,560

okay so i i hope we've kind of made the

2207

01:19:56,390 --> 01:19:55,520

case

2208

01:19:58,790 --> 01:19:56,400

that

2209

01:19:59,990 --> 01:19:58,800

you've approached this from a scientific

2210

01:20:02,470 --> 01:20:00,000

perspective

2211

01:20:04,870 --> 01:20:02,480

and while as you said at the beginning

2212

01:20:06,629 --> 01:20:04,880

you know you can't go to toe to toe with

2213

01:20:09,110 --> 01:20:06,639

someone who has

2214

01:20:11,830 --> 01:20:09,120

multiple phds and fellowships on each

2215

01:20:13,110 --> 01:20:11,840

one of these topics but as anyone who's

2216

01:20:14,229 --> 01:20:13,120

listening this

2217

01:20:17,270 --> 01:20:14,239

can tell

2218

01:20:18,870 --> 01:20:17,280

you can go toe-to-toe with them up to a

2219

01:20:21,510 --> 01:20:18,880

point and

2220

01:20:24,070 --> 01:20:21,520

if you were totally full of crap

2221

01:20:26,470 --> 01:20:24,080

you would be shot down and you're not

2222

01:20:29,430 --> 01:20:26,480

being shot down and as a matter of fact

2223

01:20:32,629 --> 01:20:29,440

your ideas are building upon the very

2224

01:20:35,510 --> 01:20:32,639

best science we have of the time

2225

01:20:37,510 --> 01:20:35,520

so if we accept that as kind of the

2226

01:20:40,550 --> 01:20:37,520

theory that we have to go to what are

2227

01:20:43,189 --> 01:20:40,560

some of the most striking implications

2228

01:20:45,590 --> 01:20:43,199

for you big picture-wise who are we why

2229

01:20:47,110 --> 01:20:45,600

are we here what are ufos

2230

01:20:49,350 --> 01:20:47,120

what do they want

2231

01:20:52,390 --> 01:20:49,360

how long have they been here what are

2232

01:20:55,110 --> 01:20:52,400

they doing and what's good et versus bad

2233

01:20:57,270 --> 01:20:55,120

et now we can ask those questions at a

2234

01:20:59,189 --> 01:20:57,280

different level what do you think

2235

01:21:00,709 --> 01:20:59,199

yeah absolutely because i mean

2236

01:21:02,390 --> 01:21:00,719

there's some things you can't like if we

2237

01:21:04,950 --> 01:21:02,400

can establish say that you know

2238

01:21:08,629 --> 01:21:04,960

some intelligence was here with a

2239

01:21:10,790 --> 01:21:08,639

technology 788 000 years ago and that

2240

01:21:12,629 --> 01:21:10,800

may well be you know intertwined with

2241

01:21:14,950 --> 01:21:12,639

our evolution either directly or just by

2242

01:21:16,709 --> 01:21:14,960

the fact it's there it's gonna have some

2243

01:21:19,110 --> 01:21:16,719

relevance to our evolution

2244

01:21:20,870 --> 01:21:19,120

right that i don't i can't say whether

2245

01:21:23,430 --> 01:21:20,880

it came i can't be certain whether it

2246

01:21:25,110 --> 01:21:23,440

came from outer space uh you know

2247

01:21:28,149 --> 01:21:25,120

from alpha centauri or the pleiades

2248

01:21:29,510 --> 01:21:28,159

which i suggest but you know i can't

2249

01:21:31,510 --> 01:21:29,520

confirm that i can't confirm whether it

2250

01:21:34,070 --> 01:21:31,520

wasn't some ancient martian civilization

2251  
01:21:36,390 --> 01:21:34,080  
or you know was dinosaurs but what we

2252  
01:21:38,149 --> 01:21:36,400  
can say is that some other intelligence

2253  
01:21:40,470 --> 01:21:38,159  
alien to us

2254  
01:21:42,149 --> 01:21:40,480  
was present so then where are they now

2255  
01:21:44,229 --> 01:21:42,159  
so it was that big question are they

2256  
01:21:46,149 --> 01:21:44,239  
still lurking and if so what are they

2257  
01:21:48,709 --> 01:21:46,159  
doing why aren't they making contact

2258  
01:21:49,669 --> 01:21:48,719  
what's their agenda or have they gone in

2259  
01:21:51,270 --> 01:21:49,679  
which case

2260  
01:21:53,510 --> 01:21:51,280  
will they come back what would they do

2261  
01:21:55,910 --> 01:21:53,520  
if they did come back or have they gone

2262  
01:21:57,189 --> 01:21:55,920  
extinct if so why is that our destiny i

2263  
01:21:58,229 --> 01:21:57,199

think it opens those questions and

2264

01:22:00,310 --> 01:21:58,239

people have to start thinking well if

2265

01:22:03,030 --> 01:22:00,320

they were there then where are they now

2266

01:22:04,390 --> 01:22:03,040

what are they doing what's coming for us

2267

01:22:06,870 --> 01:22:04,400

and those are definitely massive

2268

01:22:08,870 --> 01:22:06,880

questions that instantly happen and then

2269

01:22:10,390 --> 01:22:08,880

of course if we've been modified you

2270

01:22:13,110 --> 01:22:10,400

have to stop saying well

2271

01:22:15,750 --> 01:22:13,120

why what is this longer term agenda have

2272

01:22:18,629 --> 01:22:15,760

we been further modified will we be

2273

01:22:21,510 --> 01:22:18,639

again modified right so these are

2274

01:22:23,590 --> 01:22:21,520

massive massive burning questions around

2275

01:22:24,790 --> 01:22:23,600

us once you establish this some reality

2276

01:22:27,110 --> 01:22:24,800

to this

2277

01:22:29,110 --> 01:22:27,120

see and i i i'm with you on all that i

2278

01:22:31,430 --> 01:22:29,120

take somewhat of a different take in

2279

01:22:34,470 --> 01:22:31,440

terms of the burden of proof thing

2280

01:22:35,669 --> 01:22:34,480

because i think you've established ufo

2281

01:22:36,870 --> 01:22:35,679

reality

2282

01:22:39,030 --> 01:22:36,880

spaceship

2283

01:22:41,110 --> 01:22:39,040

you know so again burden of perform

2284

01:22:44,550 --> 01:22:41,120

somebody to say that silica object

2285

01:22:48,390 --> 01:22:44,560

that's orbiting is not a spaceship

2286

01:22:52,550 --> 01:22:48,400

to me again it's it's a spaceship and by

2287

01:22:56,550 --> 01:22:52,560

extension if there's spaceships 780 000

2288

01:22:58,550 --> 01:22:56,560

years ago with advanced technology then

2289

01:23:00,790 --> 01:22:58,560

all bets are off and when people want to

2290

01:23:03,030 --> 01:23:00,800

start telling me about

2291

01:23:06,070 --> 01:23:03,040

you know roswell and all the rest i'm

2292

01:23:08,550 --> 01:23:06,080

like great but we have to fit it now

2293

01:23:09,990 --> 01:23:08,560

into this larger time frame

2294

01:23:12,149 --> 01:23:10,000

and we can talk about all the other

2295

01:23:15,910 --> 01:23:12,159

stuff but we can't talk about

2296

01:23:17,510 --> 01:23:15,920

it's just advanced technology it's like

2297

01:23:19,510 --> 01:23:17,520

really it's just earth-based advanced

2298

01:23:21,990 --> 01:23:19,520

technology again the burden proof would

2299

01:23:24,470 --> 01:23:22,000

be on you but in doing that you would

2300

01:23:29,270 --> 01:23:24,480

have to incorporate in bruce's object

2301

01:23:30,790 --> 01:23:29,280

from 780 000 years ago uh the aliens are

2302

01:23:32,470 --> 01:23:30,800

good

2303

01:23:34,709 --> 01:23:32,480

and they're environmentalists and

2304

01:23:36,870 --> 01:23:34,719

they're trying to protect the planet

2305

01:23:39,830 --> 01:23:36,880

well again now you're gonna have to fit

2306

01:23:41,910 --> 01:23:39,840

that in with a bombardment five years

2307

01:23:44,149 --> 01:23:41,920

after this occurs where they risk

2308

01:23:46,550 --> 01:23:44,159

blowing up the planet in order to get

2309

01:23:48,629 --> 01:23:46,560

the guys they don't like out of their

2310

01:23:51,189 --> 01:23:48,639

underground villages you know

2311

01:23:54,070 --> 01:23:51,199

that doesn't sound like

2312

01:23:56,790 --> 01:23:54,080

everyone in the galactic federation is

2313

01:23:58,629 --> 01:23:56,800

on the same page in terms of how we deal

2314

01:23:59,990 --> 01:23:58,639

with conflict so

2315

01:24:01,510 --> 01:24:00,000

do you get what i'm saying what do you

2316

01:24:03,270 --> 01:24:01,520

think about that

2317

01:24:05,110 --> 01:24:03,280

yeah absolutely this you know

2318

01:24:08,229 --> 01:24:05,120

he should make us rethink the whole you

2319

01:24:09,350 --> 01:24:08,239

know ufo alien contact topic entirely i

2320

01:24:11,030 --> 01:24:09,360

mean i i

2321

01:24:12,470 --> 01:24:11,040

instantly makes me think of for example

2322

01:24:13,510 --> 01:24:12,480

you know jack ballet you know basically

2323

01:24:15,510 --> 01:24:13,520

pretty familiar

2324

01:24:18,310 --> 01:24:15,520

but his idea that what we're seeing in

2325

01:24:19,990 --> 01:24:18,320

the ufo phenomena and the interrelated

2326

01:24:22,070 --> 01:24:20,000

aspects that connect to it so everything

2327

01:24:24,070 --> 01:24:22,080

from alien abductions to strange

2328

01:24:25,910 --> 01:24:24,080

encounters and you know seemingly

2329

01:24:27,430 --> 01:24:25,920

mystical experiences uh what he has

2330

01:24:29,189 --> 01:24:27,440

referred to is kind of an evolutionary

2331

01:24:32,229 --> 01:24:29,199

control grid now if there is an

2332

01:24:34,310 --> 01:24:32,239

intelligence interested in our evolution

2333

01:24:36,550 --> 01:24:34,320

and then you take their the famous

2334

01:24:37,669 --> 01:24:36,560

obviously clock quote of you know abuse

2335

01:24:39,750 --> 01:24:37,679

officer club

2336

01:24:41,669 --> 01:24:39,760

any uh sufficiently advanced technology

2337

01:24:43,030 --> 01:24:41,679

is indistinguishable from magic a lot of

2338

01:24:44,950 --> 01:24:43,040

these things happening to people are

2339

01:24:47,510 --> 01:24:44,960

magical seeming right like say the

2340

01:24:49,270 --> 01:24:47,520

abduction phenomena it's magical seeming

2341

01:24:51,350 --> 01:24:49,280

because there's a lot of cases where you

2342

01:24:53,030 --> 01:24:51,360

can say they definitely were not taken

2343

01:24:54,709 --> 01:24:53,040

anywhere physically because people were

2344

01:24:56,229 --> 01:24:54,719

there and stuff right but they've had

2345

01:24:59,110 --> 01:24:56,239

experiences as though they want alien

2346

01:25:00,790 --> 01:24:59,120

ships having you know eggs taken and

2347

01:25:03,350 --> 01:25:00,800

things that don't seem to be happening

2348

01:25:04,709 --> 01:25:03,360

in consensus reality in physical terms

2349

01:25:06,470 --> 01:25:04,719

but are happening for them and they've

2350

01:25:08,790 --> 01:25:06,480

got PTSD and everything these things are

2351  
01:25:11,110 --> 01:25:08,800  
happening to them in some way magical

2352  
01:25:13,830 --> 01:25:11,120  
things now if we think of a technology

2353  
01:25:16,709 --> 01:25:13,840  
or a race that is so incomprehensible to

2354  
01:25:19,030 --> 01:25:16,719  
us that what it does is magical then you

2355  
01:25:20,709 --> 01:25:19,040  
you have to reevaluate the whole thing

2356  
01:25:22,550 --> 01:25:20,719  
and say yeah is this an evolutionary

2357  
01:25:24,709 --> 01:25:22,560  
control grid which involves not only

2358  
01:25:27,750 --> 01:25:24,719  
physical technologies maybe probes that

2359  
01:25:28,950 --> 01:25:27,760  
watch and interact but magical stuff

2360  
01:25:30,550 --> 01:25:28,960  
where you know things we can't

2361  
01:25:32,709 --> 01:25:30,560  
comprehend that deal with

2362  
01:25:34,070 --> 01:25:32,719  
interdimensional knowledge you know

2363  
01:25:35,830 --> 01:25:34,080

maybe somebody's technological maybe

2364

01:25:38,950 --> 01:25:35,840

some of it's their consciousness is able

2365

01:25:41,270 --> 01:25:38,960

to hack into us in telepathic ways and

2366

01:25:42,709 --> 01:25:41,280

project experiences into our brains i

2367

01:25:45,110 --> 01:25:42,719

mean you have to start opening your door

2368

01:25:47,350 --> 01:25:45,120

into what sounds like crazy sci-fi but

2369

01:25:49,189 --> 01:25:47,360

any species that nearly a million years

2370

01:25:51,590 --> 01:25:49,199

ago could fly around in giant silica

2371

01:25:54,070 --> 01:25:51,600

craft what is it doing now

2372

01:25:55,990 --> 01:25:54,080

exactly and there's a completely

2373

01:25:56,870 --> 01:25:56,000

different way to take that as well and

2374

01:25:58,629 --> 01:25:56,880

that's

2375

01:26:01,669 --> 01:25:58,639

the importance of like we said with the

2376

01:26:03,270 --> 01:26:01,679

charinga technology associated with it

2377

01:26:05,350 --> 01:26:03,280

and you always come back to that i think

2378

01:26:08,470 --> 01:26:05,360

the technology angle on this is super

2379

01:26:10,950 --> 01:26:08,480

interesting i think the silica ship ai

2380

01:26:13,030 --> 01:26:10,960

intelligence ship is interesting i think

2381

01:26:15,350 --> 01:26:13,040

the genetic engineering and the failed

2382

01:26:18,390 --> 01:26:15,360

genetic engineering is interesting

2383

01:26:19,910 --> 01:26:18,400

because it suggests as does the silica

2384

01:26:22,390 --> 01:26:19,920

chip that

2385

01:26:25,270 --> 01:26:22,400

maybe the technology gap

2386

01:26:28,629 --> 01:26:25,280

isn't what we might imagine maybe it

2387

01:26:31,030 --> 01:26:28,639

starts sounding a lot closer to the kind

2388

01:26:33,110 --> 01:26:31,040

of stuff we're familiar with oh yeah we

2389

01:26:35,030 --> 01:26:33,120

made the program but the ai screwed up

2390

01:26:36,470 --> 01:26:35,040

because it is just a program and we

2391

01:26:37,990 --> 01:26:36,480

unplugged it and it

2392

01:26:39,910 --> 01:26:38,000

didn't do what it's supposed to do

2393

01:26:41,189 --> 01:26:39,920

genetically

2394

01:26:43,590 --> 01:26:41,199

exactly

2395

01:26:44,550 --> 01:26:43,600

you know oh we genetically modified

2396

01:26:46,310 --> 01:26:44,560

these

2397

01:26:47,910 --> 01:26:46,320

fetuses but we didn't really know how to

2398

01:26:50,229 --> 01:26:47,920

do it because we didn't have the you

2399

01:26:52,629 --> 01:26:50,239

know the right equipment that's again

2400

01:26:53,910 --> 01:26:52,639

sounding very human and this is now on

2401  
01:26:56,550 --> 01:26:53,920  
the table because the other thing you

2402  
01:26:59,270 --> 01:26:56,560  
said was jacques play love jacqueline

2403  
01:27:01,669 --> 01:26:59,280  
awesome huge contributor to this

2404  
01:27:04,390 --> 01:27:01,679  
understanding of the phenomenon in

2405  
01:27:06,310 --> 01:27:04,400  
general but a lot of people take that

2406  
01:27:08,550 --> 01:27:06,320  
and go the uber consciousness thing

2407  
01:27:10,550 --> 01:27:08,560  
right so there's there's it's all

2408  
01:27:13,350 --> 01:27:10,560  
consciousness you know there's none of

2409  
01:27:15,590 --> 01:27:13,360  
this well this flies in the face of that

2410  
01:27:18,709 --> 01:27:15,600  
right the tectite that you hold in your

2411  
01:27:21,990 --> 01:27:18,719  
hand is in this here now consensus

2412  
01:27:25,189 --> 01:27:22,000  
reality it is materialistic science that

2413  
01:27:27,830 --> 01:27:25,199

we've used to analyze that to date that

2414

01:27:30,070 --> 01:27:27,840

to tell us what the elements are and how

2415

01:27:32,310 --> 01:27:30,080

they're formed that's very

2416

01:27:33,910 --> 01:27:32,320

third dimension materialistic science

2417

01:27:35,830 --> 01:27:33,920

too so

2418

01:27:37,750 --> 01:27:35,840

again that's why i think this work is so

2419

01:27:39,189 --> 01:27:37,760

important because it kind of drives a

2420

01:27:40,870 --> 01:27:39,199

stake in the ground and says hey don't

2421

01:27:44,390 --> 01:27:40,880

go too far with that you want to go

2422

01:27:47,590 --> 01:27:44,400

fairies and bigfoot right but it does

2423

01:27:50,229 --> 01:27:47,600

kind of come back to spaceships and

2424

01:27:51,750 --> 01:27:50,239

lasers from space too you know what do

2425

01:27:54,229 --> 01:27:51,760

you think about that yeah absolutely i

2426

01:27:56,790 --> 01:27:54,239

mean i i tend to think of

2427

01:27:58,470 --> 01:27:56,800

to my knowledge you know and having

2428

01:28:00,550 --> 01:27:58,480

looked at a lot of strange stuff for a

2429

01:28:03,830 --> 01:28:00,560

very long time that this is the only

2430

01:28:05,110 --> 01:28:03,840

line of research where we can really

2431

01:28:07,590 --> 01:28:05,120

do say stick that sticking around and

2432

01:28:09,430 --> 01:28:07,600

say well this is a physical event

2433

01:28:11,750 --> 01:28:09,440

involving an alien intelligence it's

2434

01:28:13,750 --> 01:28:11,760

very alien to us no matter where we came

2435

01:28:16,470 --> 01:28:13,760

from alien to humans that could do

2436

01:28:18,550 --> 01:28:16,480

amazing technological things now with

2437

01:28:21,270 --> 01:28:18,560

the modern phenomena the contact to easy

2438

01:28:23,270 --> 01:28:21,280

episode it's really fuzzy

2439

01:28:26,470 --> 01:28:23,280

like which parts of that are

2440

01:28:28,950 --> 01:28:26,480

psychical consciousness visionary or or

2441

01:28:31,030 --> 01:28:28,960

are physical it's really hazy really

2442

01:28:33,430 --> 01:28:31,040

hard to see that and i tend to step back

2443

01:28:35,910 --> 01:28:33,440

and say i really don't know which parts

2444

01:28:37,270 --> 01:28:35,920

of that are definitely physical so where

2445

01:28:39,110 --> 01:28:37,280

we've had an argument about nuts and

2446

01:28:41,110 --> 01:28:39,120

bolts versus woo-woo consciousness

2447

01:28:43,350 --> 01:28:41,120

nobody really knows where that line is

2448

01:28:45,910 --> 01:28:43,360

in that modern phenomena but i can say

2449

01:28:47,830 --> 01:28:45,920

well okay put that to one side let's at

2450

01:28:49,830 --> 01:28:47,840

least establish that some of this is

2451  
01:28:51,510 --> 01:28:49,840  
physical and that that's what this does

2452  
01:28:54,629 --> 01:28:51,520  
especially as you say there is some

2453  
01:28:57,590 --> 01:28:54,639  
physicality definitely to this and that

2454  
01:29:00,229 --> 01:28:57,600  
would infer probably some physicality

2455  
01:29:02,070 --> 01:29:00,239  
that continues to present somewhere

2456  
01:29:04,709 --> 01:29:02,080  
amongst that strangeness that we can't

2457  
01:29:06,870 --> 01:29:04,719  
tie down the jobs john keel kind of you

2458  
01:29:08,149 --> 01:29:06,880  
know conclusions that it's all you know

2459  
01:29:10,149 --> 01:29:08,159  
just

2460  
01:29:12,070 --> 01:29:10,159  
is it paraphysical the stuff that comes

2461  
01:29:14,629 --> 01:29:12,080  
into reality seems physical can meld

2462  
01:29:17,189 --> 01:29:14,639  
away that that seems to be going on too

2463  
01:29:18,790 --> 01:29:17,199

but we can infer that if they are

2464

01:29:20,310 --> 01:29:18,800

physical enough to leave real debris

2465

01:29:22,390 --> 01:29:20,320

that you can pick up that there is a

2466

01:29:24,550 --> 01:29:22,400

physical element to at least some of

2467

01:29:26,229 --> 01:29:24,560

these non-human intelligences that seem

2468

01:29:28,470 --> 01:29:26,239

to be interacting with us maybe there's

2469

01:29:29,910 --> 01:29:28,480

others that are just pure energy and you

2470

01:29:31,350 --> 01:29:29,920

know you go into all that but we can't

2471

01:29:33,430 --> 01:29:31,360

establish that yet so let's start with

2472

01:29:35,669 --> 01:29:33,440

what we can establish

2473

01:29:37,110 --> 01:29:35,679

yeah and that of course that brings up

2474

01:29:39,350 --> 01:29:37,120

the really

2475

01:29:42,310 --> 01:29:39,360

level three kind of discussion about

2476

01:29:44,310 --> 01:29:42,320

consciousness extended consciousness uh

2477

01:29:46,550 --> 01:29:44,320

good and evil in the extended

2478

01:29:48,229 --> 01:29:46,560

consciousness whether there is a moral

2479

01:29:50,790 --> 01:29:48,239

imperative and we could even talk about

2480

01:29:52,870 --> 01:29:50,800

good and evil the the question i always

2481

01:29:56,310 --> 01:29:52,880

boil it down to is

2482

01:29:57,590 --> 01:29:56,320

what does et's nde look like

2483

01:29:59,189 --> 01:29:57,600

right

2484

01:30:01,910 --> 01:29:59,199

there's a near-death experience there's

2485

01:30:03,990 --> 01:30:01,920

a reality to that consciousness

2486

01:30:06,070 --> 01:30:04,000

from a physical standpoint should have

2487

01:30:07,830 --> 01:30:06,080

stopped your brain has stopped your

2488

01:30:09,990 --> 01:30:07,840

heart has stopped and yet we know that

2489

01:30:12,310 --> 01:30:10,000

consciousness is continuing where is

2490

01:30:13,910 --> 01:30:12,320

that consciousness going and then there

2491

01:30:15,430 --> 01:30:13,920

seems to be this other dimension that

2492

01:30:18,229 --> 01:30:15,440

it's going into

2493

01:30:20,709 --> 01:30:18,239

what's happening for e.t and

2494

01:30:21,510 --> 01:30:20,719

you know this is a a further inference

2495

01:30:23,990 --> 01:30:21,520

than

2496

01:30:25,189 --> 01:30:24,000

i think you would probably go or that a

2497

01:30:27,189 --> 01:30:25,199

lot of people would go with your

2498

01:30:29,750 --> 01:30:27,199

research but

2499

01:30:32,950 --> 01:30:29,760

what i would think would be one of the

2500

01:30:35,430 --> 01:30:32,960

the ways i would read it is that

2501  
01:30:36,950 --> 01:30:35,440  
et's nde isn't maybe that much different

2502  
01:30:38,790 --> 01:30:36,960  
from our nde

2503  
01:30:39,910 --> 01:30:38,800  
because it starts looking like a lot of

2504  
01:30:41,910 --> 01:30:39,920  
the same

2505  
01:30:43,430 --> 01:30:41,920  
stuff and particularly the you know we

2506  
01:30:45,750 --> 01:30:43,440  
didn't even talk about the bombardment

2507  
01:30:48,229 --> 01:30:45,760  
thing but particularly that damn it i

2508  
01:30:50,149 --> 01:30:48,239  
don't care blast them out of the sky hey

2509  
01:30:52,229 --> 01:30:50,159  
they blasted us out of the sky let's

2510  
01:30:54,629 --> 01:30:52,239  
come back and attack them i don't care

2511  
01:30:56,990 --> 01:30:54,639  
if we blow up that blow up the planet

2512  
01:31:00,149 --> 01:30:57,000  
that doesn't sound like

2513  
01:31:02,390 --> 01:31:00,159

transcendent consciousness to me that

2514

01:31:04,550 --> 01:31:02,400

doesn't sound like god to me that sounds

2515

01:31:06,470 --> 01:31:04,560

like you know it god i'm putting just in

2516

01:31:08,550 --> 01:31:06,480

terms of how we would understand that

2517

01:31:11,510 --> 01:31:08,560

unity consciousness that we're all

2518

01:31:13,430 --> 01:31:11,520

somehow connected kind of thing

2519

01:31:15,270 --> 01:31:13,440

yeah i think he's saying if he said

2520

01:31:17,669 --> 01:31:15,280

no matter whether there may be

2521

01:31:19,750 --> 01:31:17,679

intelligences that are pure you know

2522

01:31:21,669 --> 01:31:19,760

love and light that there are also

2523

01:31:24,070 --> 01:31:21,679

others out there that are yeah more akin

2524

01:31:25,510 --> 01:31:24,080

to us than we might expect you know so

2525

01:31:28,310 --> 01:31:25,520

it doesn't preclude there aren't like

2526

01:31:30,149 --> 01:31:28,320

angelic perfect beings and you know

2527

01:31:31,910 --> 01:31:30,159

living life forms you know all of that

2528

01:31:33,910 --> 01:31:31,920

can also be true but that they are you

2529

01:31:37,430 --> 01:31:33,920

know maybe surprisingly to us but there

2530

01:31:39,030 --> 01:31:37,440

are other beings that are recognizable

2531

01:31:40,310 --> 01:31:39,040

to us in terms of we can imagine they

2532

01:31:43,189 --> 01:31:40,320

probably went through a similar

2533

01:31:45,430 --> 01:31:43,199

evolutionary path to us because some of

2534

01:31:47,990 --> 01:31:45,440

their behaviors and their choices are

2535

01:31:50,070 --> 01:31:48,000

recognizable to us and i think that

2536

01:31:51,990 --> 01:31:50,080

again gives us a sense of

2537

01:31:53,590 --> 01:31:52,000

perhaps a better sense of not being

2538

01:31:55,590 --> 01:31:53,600

alone than if we did find beings that

2539

01:31:57,110 --> 01:31:55,600

were so radically different like well

2540

01:31:58,470 --> 01:31:57,120

what do we even make of them you know

2541

01:31:59,910 --> 01:31:58,480

whereas we can say well at least some of

2542

01:32:01,910 --> 01:31:59,920

them there's some hope we might have a

2543

01:32:04,310 --> 01:32:01,920

connection where we could understand

2544

01:32:05,910 --> 01:32:04,320

each other because they seem to do

2545

01:32:07,990 --> 01:32:05,920

things a bit like us and they're not

2546

01:32:10,790 --> 01:32:08,000

perfect they're not you know infallible

2547

01:32:12,790 --> 01:32:10,800

gods who you know never make a mistake

2548

01:32:14,390 --> 01:32:12,800

or you know can never you know have a

2549

01:32:16,550 --> 01:32:14,400

technology or wrong that they they

2550

01:32:17,830 --> 01:32:16,560

actually are recognized in that way too

2551  
01:32:18,870 --> 01:32:17,840  
and i think yeah that's really important

2552  
01:32:20,470 --> 01:32:18,880  
because there probably are beings that

2553  
01:32:21,669 --> 01:32:20,480  
we just we wouldn't know where to start

2554  
01:32:23,590 --> 01:32:21,679  
with their consciousness you know in

2555  
01:32:25,750 --> 01:32:23,600  
their thinking and

2556  
01:32:27,270 --> 01:32:25,760  
would be like talking to a brick you

2557  
01:32:28,709 --> 01:32:27,280  
know in terms of our chances of ever

2558  
01:32:30,709 --> 01:32:28,719  
connecting with them right because it's

2559  
01:32:32,470 --> 01:32:30,719  
so different the consciousness types are

2560  
01:32:33,830 --> 01:32:32,480  
so different that we would have no real

2561  
01:32:35,590 --> 01:32:33,840  
hope we could only recognize maybe that

2562  
01:32:38,070 --> 01:32:35,600  
there's other life but other life is

2563  
01:32:39,510 --> 01:32:38,080

shut off from us because it's so strange

2564

01:32:41,189 --> 01:32:39,520

so i think this gives us a hopeful

2565

01:32:42,870 --> 01:32:41,199

feeling as well that maybe we can really

2566

01:32:43,669 --> 01:32:42,880

connect with other charities and out

2567

01:32:49,030 --> 01:32:43,679

there

2568

01:32:51,270 --> 01:32:49,040

of them in us with the genetics

2569

01:32:53,910 --> 01:32:51,280

bruce finally what do you think about

2570

01:32:56,310 --> 01:32:53,920

the current state of this uh

2571

01:32:58,310 --> 01:32:56,320

conversation it's at a totally different

2572

01:32:59,510 --> 01:32:58,320

point than we've ever seen in our

2573

01:33:00,709 --> 01:32:59,520

lifetime

2574

01:33:02,629 --> 01:33:00,719

it's

2575

01:33:05,270 --> 01:33:02,639

you know what do you think about lou

2576

01:33:06,550 --> 01:33:05,280

elizondo you know disclosure comes

2577

01:33:09,030 --> 01:33:06,560

through

2578

01:33:12,149 --> 01:33:09,040

an intelligence officer oh from the

2579

01:33:14,310 --> 01:33:12,159

pentagon oh what a surprise

2580

01:33:15,510 --> 01:33:14,320

how do you advise that story what do you

2581

01:33:17,110 --> 01:33:15,520

think about

2582

01:33:18,229 --> 01:33:17,120

disclosure we do seem to be going

2583

01:33:19,350 --> 01:33:18,239

through it no matter what you think

2584

01:33:20,870 --> 01:33:19,360

about it

2585

01:33:24,470 --> 01:33:20,880

we're certainly going through yes some

2586

01:33:26,229 --> 01:33:24,480

kind of narrative shift now

2587

01:33:28,550 --> 01:33:26,239

is it something disclosed or is it a

2588

01:33:30,550 --> 01:33:28,560

story being woven for us

2589

01:33:32,550 --> 01:33:30,560

in which case it wouldn't really be a

2590

01:33:33,990 --> 01:33:32,560

disclosure because again disclosure

2591

01:33:37,189 --> 01:33:34,000

infers that this is that we're being

2592

01:33:39,110 --> 01:33:37,199

shown factual hidden things right now i

2593

01:33:41,590 --> 01:33:39,120

think it's gonna be very difficult for

2594

01:33:45,270 --> 01:33:41,600

us to ever confirm that we are being

2595

01:33:47,669 --> 01:33:45,280

shown factual hidden things versus being

2596

01:33:49,189 --> 01:33:47,679

given a story that is preferred by

2597

01:33:50,790 --> 01:33:49,199

certain people now whether that's

2598

01:33:53,030 --> 01:33:50,800

individuals or the intelligence

2599

01:33:54,950 --> 01:33:53,040

community or the government you know

2600

01:33:56,390 --> 01:33:54,960

how do we really know now the only thing

2601

01:33:58,310 --> 01:33:56,400

you can really establish that is if

2602

01:33:59,189 --> 01:33:58,320

someone was to really say i don't wheel

2603

01:34:01,270 --> 01:33:59,199

out

2604

01:34:03,110 --> 01:34:01,280

a craft and aliens we could at least get

2605

01:34:05,510 --> 01:34:03,120

to probably say well there's definitely

2606

01:34:07,990 --> 01:34:05,520

a hidden you know there's an alien craft

2607

01:34:10,310 --> 01:34:08,000

they had one that's a disclosure but if

2608

01:34:12,070 --> 01:34:10,320

what we get is just information

2609

01:34:14,229 --> 01:34:12,080

i think that's really problematic

2610

01:34:15,990 --> 01:34:14,239

because we have no way to independently

2611

01:34:17,990 --> 01:34:16,000

validate this isn't just a story being

2612

01:34:19,430 --> 01:34:18,000

moving for us and there's a really

2613

01:34:20,950 --> 01:34:19,440

interesting article by a guy called

2614

01:34:21,669 --> 01:34:20,960

alexander wendt i don't know if you know

2615

01:34:23,350 --> 01:34:21,679

but

2616

01:34:25,270 --> 01:34:23,360

he writes about how

2617

01:34:27,270 --> 01:34:25,280

really the control system can never

2618

01:34:29,669 --> 01:34:27,280

reveal aliens to us because it's a

2619

01:34:33,189 --> 01:34:29,679

direct threat to them because you're now

2620

01:34:35,110 --> 01:34:33,199

putting a higher order above the top of

2621

01:34:36,950 --> 01:34:35,120

the pyramid you know because instead of

2622

01:34:38,870 --> 01:34:36,960

people looking to the apex as the

2623

01:34:41,350 --> 01:34:38,880

political elite everyone's going to ask

2624

01:34:43,750 --> 01:34:41,360

but what do their levels you know these

2625

01:34:45,590 --> 01:34:43,760

civilizational type free type beings

2626

01:34:47,830 --> 01:34:45,600

think who really are in control of our

2627

01:34:49,510 --> 01:34:47,840

solar system who cares what the

2628

01:34:52,310 --> 01:34:49,520

president of america says he's

2629

01:34:54,149 --> 01:34:52,320

irrelevant now right well that's gonna

2630

01:34:57,510 --> 01:34:54,159

be a big problem for a system that is

2631

01:35:00,310 --> 01:34:57,520

built on that control system you know

2632

01:35:03,350 --> 01:35:00,320

yeah i i dr alexander wendt has been on

2633

01:35:04,390 --> 01:35:03,360

the show at least once but the counter

2634

01:35:07,669 --> 01:35:04,400

to that

2635

01:35:10,149 --> 01:35:07,679

is what we've lived through with the

2636

01:35:12,310 --> 01:35:10,159

recent elections and with the great

2637

01:35:14,310 --> 01:35:12,320

reset is that

2638

01:35:16,709 --> 01:35:14,320

i think all that stuff is kind of

2639

01:35:18,870 --> 01:35:16,719

irrelevant or being managed on a whole

2640

01:35:21,830 --> 01:35:18,880

different level that we don't totally

2641

01:35:24,629 --> 01:35:21,840

appreciate and i also think

2642

01:35:26,550 --> 01:35:24,639

the disclosure and particularly the new

2643

01:35:28,629 --> 01:35:26,560

york times disclosure and again i

2644

01:35:30,470 --> 01:35:28,639

interviewed both leslie kane and ralph

2645

01:35:32,950 --> 01:35:30,480

blumenthal from the new york times who

2646

01:35:35,109 --> 01:35:32,960

have the byline on that story number one

2647

01:35:36,950 --> 01:35:35,119

it seemed like to anyone is paying

2648

01:35:39,189 --> 01:35:36,960

attention a political psyop from the

2649

01:35:40,950 --> 01:35:39,199

beginning again this lu elizondo

2650

01:35:43,109 --> 01:35:40,960

character you know why is an

2651

01:35:45,109 --> 01:35:43,119

intelligence officer the one

2652

01:35:48,070 --> 01:35:45,119

leaking that would be the first question

2653

01:35:49,510 --> 01:35:48,080

but number two it didn't do

2654

01:35:52,790 --> 01:35:49,520

what it was

2655

01:35:56,149 --> 01:35:52,800

supposed to do so they're constantly

2656

01:35:58,390 --> 01:35:56,159

shaping the the social narrative and the

2657

01:36:00,790 --> 01:35:58,400

mind control experiment but that doesn't

2658

01:36:02,629 --> 01:36:00,800

mean that they're in control of it

2659

01:36:05,270 --> 01:36:02,639

my best read of it is

2660

01:36:07,189 --> 01:36:05,280

they didn't know that it would go the

2661

01:36:09,590 --> 01:36:07,199

way that it has in their attempt to

2662

01:36:11,350 --> 01:36:09,600

disclose so they're constantly tweaking

2663

01:36:13,350 --> 01:36:11,360

it and isn't that our history of what

2664

01:36:15,750 --> 01:36:13,360

we've seen in terms of propaganda and

2665

01:36:17,830 --> 01:36:15,760

misinformation i mean it's always a

2666

01:36:19,350 --> 01:36:17,840

moving target it's an evolving well

2667

01:36:21,430 --> 01:36:19,360

let's see what that does and then it's a

2668

01:36:24,149 --> 01:36:21,440

chess game it's like okay well from that

2669

01:36:26,149 --> 01:36:24,159

position they did this so now i'll do

2670

01:36:27,270 --> 01:36:26,159

that

2671

01:36:28,870 --> 01:36:27,280

yeah i mean i think particularly you

2672

01:36:30,629 --> 01:36:28,880

know say stephen greenstreet and the new

2673

01:36:32,550 --> 01:36:30,639

york post who's done some really good

2674

01:36:34,070 --> 01:36:32,560

investigative research into this showing

2675

01:36:36,390 --> 01:36:34,080

that yeah a lot of the stuff to be said

2676  
01:36:38,310 --> 01:36:36,400  
has changed it's an evolving narrative

2677  
01:36:40,149 --> 01:36:38,320  
when you're being told an absolute

2678  
01:36:42,870 --> 01:36:40,159  
revelation of truth

2679  
01:36:45,030 --> 01:36:42,880  
expands it doesn't change right and what

2680  
01:36:46,709 --> 01:36:45,040  
we're seeing is changing shifting sounds

2681  
01:36:49,109 --> 01:36:46,719  
in the narrative so that is should be a

2682  
01:36:52,950 --> 01:36:49,119  
red flag to people and of course i'd say

2683  
01:36:54,790 --> 01:36:52,960  
the majority of old hands in ufology

2684  
01:36:55,990 --> 01:36:54,800  
have tended towards skepticism of this

2685  
01:36:57,990 --> 01:36:56,000  
that they see a problem because they

2686  
01:36:59,669 --> 01:36:58,000  
still remember the days where this is a

2687  
01:37:02,149 --> 01:36:59,679  
lot of disinfo and a lot of military

2688  
01:37:03,430 --> 01:37:02,159

control going into the ufo world whereas

2689

01:37:06,550 --> 01:37:03,440

many of the people who've come in in

2690

01:37:09,030 --> 01:37:06,560

2017 onwards who've become die hard

2691

01:37:10,950 --> 01:37:09,040

ufo activists

2692

01:37:11,990 --> 01:37:10,960

who are activists for disclosure and

2693

01:37:13,510 --> 01:37:12,000

it's all about the government and the

2694

01:37:14,870 --> 01:37:13,520

military and we need to let these people

2695

01:37:17,189 --> 01:37:14,880

who know all the stuff and what they're

2696

01:37:19,750 --> 01:37:17,199

doing take over the narrative

2697

01:37:21,510 --> 01:37:19,760

you know really are just so green

2698

01:37:24,229 --> 01:37:21,520

so green

2699

01:37:26,070 --> 01:37:24,239

it's it's unfortunate they seem to have

2700

01:37:28,470 --> 01:37:26,080

got the big traction on this and the

2701  
01:37:30,550 --> 01:37:28,480  
other people who do know better who

2702  
01:37:33,109 --> 01:37:30,560  
spent decades in this are being

2703  
01:37:35,430 --> 01:37:33,119  
sidelined because of course the media

2704  
01:37:37,510 --> 01:37:35,440  
and the intelligent community are loving

2705  
01:37:39,189 --> 01:37:37,520  
these people loving them because they're

2706  
01:37:40,550 --> 01:37:39,199  
also enabling this idea that the

2707  
01:37:42,310 --> 01:37:40,560  
government is giving the people what

2708  
01:37:44,470 --> 01:37:42,320  
they want so first you need some people

2709  
01:37:45,990 --> 01:37:44,480  
to say we want this so you engineer a

2710  
01:37:47,510 --> 01:37:46,000  
group of people who then call on the

2711  
01:37:49,189 --> 01:37:47,520  
government to do it and it looks like

2712  
01:37:50,550 --> 01:37:49,199  
you're responding to the people instead

2713  
01:37:51,750 --> 01:37:50,560

of just bringing out the story you're

2714

01:37:53,910 --> 01:37:51,760

going to bring out in the first place

2715

01:37:57,669 --> 01:37:53,920

that nobody would have believed without

2716

01:37:59,830 --> 01:37:57,679

a call for it from ground level so

2717

01:38:02,390 --> 01:37:59,840

it's it's amazing really to sort of see

2718

01:38:03,510 --> 01:38:02,400

it working so you know exactly how you'd

2719

01:38:05,189 --> 01:38:03,520

expect them to want it to work and

2720

01:38:07,510 --> 01:38:05,199

that's what's happening so that should

2721

01:38:09,350 --> 01:38:07,520

again be another big red flag and that

2722

01:38:12,070 --> 01:38:09,360

certainly what a few hundred or a few

2723

01:38:14,550 --> 01:38:12,080

thousand activists calling on senators

2724

01:38:17,189 --> 01:38:14,560

makes changes how many people asked not

2725

01:38:19,430 --> 01:38:17,199

to have jabs or not to have digital

2726

01:38:21,270 --> 01:38:19,440

passports and we're totally railroaded

2727

01:38:23,030 --> 01:38:21,280

millions of people but we're supposed to

2728

01:38:24,310 --> 01:38:23,040

believe a few thousand ufo activists

2729

01:38:28,149 --> 01:38:24,320

have managed to get congress to do all

2730

01:38:31,830 --> 01:38:28,159

this stuff i'm sorry i'm not buying it

2731

01:38:34,790 --> 01:38:31,840

richard dodie strawberry ice cream

2732

01:38:37,750 --> 01:38:34,800

should i tell anyone to just google

2733

01:38:40,470 --> 01:38:37,760

richard dodie strawberry ice cream

2734

01:38:43,510 --> 01:38:40,480

go from there bruce it's been just

2735

01:38:45,510 --> 01:38:43,520

fantastic then i loved it

2736

01:38:47,830 --> 01:38:45,520

i love talking about this stuff with you

2737

01:38:50,550 --> 01:38:47,840

you are the best the best of the best

2738

01:38:53,790 --> 01:38:50,560

this latest book exogenesis hybrid

2739

01:38:57,109 --> 01:38:53,800

humans a scientific history of

2740

01:38:59,830 --> 01:38:57,119

extraterrestrial genetic manipulation

2741

01:39:02,950 --> 01:38:59,840

with your wife danny the incomparable

2742

01:39:06,149 --> 01:39:02,960

danny there's also the forgotten exodus

2743

01:39:07,350 --> 01:39:06,159

the into africa theory of human

2744

01:39:08,950 --> 01:39:07,360

evolution

2745

01:39:12,229 --> 01:39:08,960

hybrid humans

2746

01:39:14,709 --> 01:39:12,239

scientific evidence of our 800 000 year

2747

01:39:16,550 --> 01:39:14,719

old alien legacy

2748

01:39:20,070 --> 01:39:16,560

and then you can go watch

2749

01:39:22,390 --> 01:39:20,080

780 000 our alien origin story

2750

01:39:24,470 --> 01:39:22,400

what's what's next what are you working

2751

01:39:27,350 --> 01:39:24,480

on what do we should we expect to see

2752

01:39:28,149 --> 01:39:27,360

from you yeah i mean i should within the

2753

01:39:33,430 --> 01:39:28,159

next

2754

01:39:35,590 --> 01:39:33,440

the final edit done on the tech type

2755

01:39:38,149 --> 01:39:35,600

paper and obviously arguing that this is

2756

01:39:40,790 --> 01:39:38,159

an interesting object but also um that

2757

01:39:42,070 --> 01:39:40,800

it's most likely a techno signature we

2758

01:39:44,149 --> 01:39:42,080

should make it the first ever alien

2759

01:39:46,550 --> 01:39:44,159

techno signature and i mean get that up

2760

01:39:48,550 --> 01:39:46,560

onto pre-print servers so they'll be

2761

01:39:51,189 --> 01:39:48,560

accessible to everybody you know to the

2762

01:39:52,950 --> 01:39:51,199

public um to any scientists or

2763

01:39:54,950 --> 01:39:52,960

journalists that might be interested

2764

01:39:56,870 --> 01:39:54,960

most likely to be you know alternative

2765

01:39:58,629 --> 01:39:56,880

media i imagine probably not mainstream

2766

01:39:59,910 --> 01:39:58,639

media but anyone that is interested in

2767

01:40:01,510 --> 01:39:59,920

that it'd be available i think it's

2768

01:40:04,070 --> 01:40:01,520

important those people can check and see

2769

01:40:05,910 --> 01:40:04,080

that you know i i'm providing all the

2770

01:40:07,830 --> 01:40:05,920

sources for this and as i say it's all

2771

01:40:10,550 --> 01:40:07,840

from academics and nasa and all these

2772

01:40:12,709 --> 01:40:10,560

people who you know have a more trusted

2773

01:40:15,109 --> 01:40:12,719

authority in these areas you know for

2774

01:40:17,510 --> 01:40:15,119

most people and so that will be up i

2775

01:40:19,030 --> 01:40:17,520

hope you know very imminently so i hope

2776

01:40:21,030 --> 01:40:19,040

you will watch that space and with a bit

2777

01:40:22,470 --> 01:40:21,040

of luck at least the alternative or

2778

01:40:23,430 --> 01:40:22,480

independent media

2779

01:40:25,590 --> 01:40:23,440

um

2780

01:40:28,390 --> 01:40:25,600

may get excited about that let's hope so

2781

01:40:30,870 --> 01:40:28,400

um and we won't expect fox and cnn props

2782

01:40:31,910 --> 01:40:30,880

to jump right onto it but you know if

2783

01:40:33,510 --> 01:40:31,920

some of these bigger you know

2784

01:40:35,109 --> 01:40:33,520

independent platforms cover it that'd be

2785

01:40:37,109 --> 01:40:35,119

great i'd be quite very very happy with

2786

01:40:39,109 --> 01:40:37,119

that and if some scientists engage with

2787

01:40:40,709 --> 01:40:39,119

it and start responding and saying well

2788

01:40:41,910 --> 01:40:40,719

i said what's wrong with it if you don't

2789

01:40:43,990 --> 01:40:41,920

agree

2790

01:40:46,790 --> 01:40:44,000

explain it also explain why it's take

2791

01:40:47,750 --> 01:40:46,800

200 years to resolve this tech-type

2792

01:40:49,669 --> 01:40:47,760

topic

2793

01:40:50,550 --> 01:40:49,679

unless you've got something radically

2794

01:40:52,390 --> 01:40:50,560

wrong

2795

01:40:53,910 --> 01:40:52,400

that's a long time 200

2796

01:40:56,229 --> 01:40:53,920

they've had the ball for 200 years

2797

01:40:57,109 --> 01:40:56,239

before anyone's mentioned aliens

2798

01:40:58,390 --> 01:40:57,119

great

2799

01:41:01,669 --> 01:40:58,400

well bruce

2800

01:41:03,590 --> 01:41:01,679

as always fantastic stuff thanks so much

2801  
01:41:07,990 --> 01:41:03,600  
for doing this take care no worries

2802  
01:41:11,750 --> 01:41:09,590  
thanks again to bruce fenton for joining

2803  
01:41:14,229 --> 01:41:11,760  
me today on skeptico the one question

2804  
01:41:15,350 --> 01:41:14,239  
i'd have to tee up from this interview

2805  
01:41:19,669 --> 01:41:15,360  
is

2806  
01:41:21,910 --> 01:41:19,679  
game

2807  
01:41:23,590 --> 01:41:21,920  
that of course presupposes you knew his

2808  
01:41:25,510 --> 01:41:23,600  
game before which you should if you're

2809  
01:41:27,590 --> 01:41:25,520  
listening to this show

2810  
01:41:29,750 --> 01:41:27,600  
but do you think he's moved us closer to

2811  
01:41:32,550 --> 01:41:29,760  
really nailing down

2812  
01:41:34,229 --> 01:41:32,560  
some of these theories he has let me

2813  
01:41:35,430 --> 01:41:34,239

know your thoughts love to hear from you

2814

01:41:38,950 --> 01:41:35,440

as always

2815

01:41:40,229 --> 01:41:38,960

we are whether we like it or not in this

2816

01:41:42,310 --> 01:41:40,239

together

2817

01:41:45,350 --> 01:41:42,320

so let's talk

2818

01:41:48,720 --> 01:41:45,360

much more to come until next time take