



GARRY NOLAN
MICROBIOLOGY & IMMUNOLOGY

1
00:00:00,000 --> 00:00:14,310

[Music]

2
00:00:18,950 --> 00:00:16,390

it was basically a cube with inside of

3
00:00:23,950 --> 00:00:18,960

sphere where the points of the cube

4
00:00:37,190 --> 00:00:33,220

[Music]

5
00:00:38,709 --> 00:00:37,200

[Applause]

6
00:00:40,950 --> 00:00:38,719

so this isn't anything that just is

7
00:00:46,310 --> 00:00:40,960

limited to the united states it's a

8
00:00:50,869 --> 00:00:48,709

hi everyone and welcome back to that ufo

9
00:00:52,950 --> 00:00:50,879

podcast my name is andy i'm delighted to

10
00:00:55,270 --> 00:00:52,960

welcome with me a professor at stanford

11
00:00:57,990 --> 00:00:55,280

university school of medicine his

12
00:01:01,189 --> 00:00:58,000

research is in microbiology immunology

13
00:01:03,590 --> 00:01:01,199

biocomputation and analysis of ufo

14

00:01:06,070 --> 00:01:03,600

artifacts materials and also reports of

15

00:01:08,070 --> 00:01:06,080

ufo encounters i have the one and only

16

00:01:09,350 --> 00:01:08,080

professor gary nolan gary welcome to the

17

00:01:11,030 --> 00:01:09,360

podcast

18

00:01:12,710 --> 00:01:11,040

thank you very much i'm looking forward

19

00:01:15,429 --> 00:01:12,720

to the discussion

20

00:01:16,710 --> 00:01:15,439

as to gary very popular guest as soon as

21

00:01:18,550 --> 00:01:16,720

we announced you were coming on it's

22

00:01:20,230 --> 00:01:18,560

been quite exciting a lot of listener

23

00:01:22,149 --> 00:01:20,240

interest as well so hopefully we can do

24

00:01:24,550 --> 00:01:22,159

that some justice for those who are

25

00:01:26,390 --> 00:01:24,560

listening and watching along gary i want

26

00:01:28,630 --> 00:01:26,400

to know first a little bit about your

27

00:01:29,590 --> 00:01:28,640

your early experiences of the ufo

28

00:01:31,590 --> 00:01:29,600

subject

29

00:01:34,310 --> 00:01:31,600

as a child growing up did you have any

30

00:01:36,069 --> 00:01:34,320

favorite books tvs or movies that were

31

00:01:38,390 --> 00:01:36,079

influences and what became a bit of a

32

00:01:40,870 --> 00:01:38,400

passion of yours

33

00:01:42,389 --> 00:01:40,880

well i've always been interested in

34

00:01:45,030 --> 00:01:42,399

science fiction i mean i think some of

35

00:01:47,670 --> 00:01:45,040

the first books that i ever read were

36

00:01:50,630 --> 00:01:47,680

sci-fi mostly arthur c clarke

37

00:01:53,590 --> 00:01:50,640

uh and isaac asimov so you know i'm i'm

38

00:01:56,550 --> 00:01:53,600

a child of the 60s if you will so at

39

00:01:59,910 --> 00:01:56,560

that time the big time uh science

40

00:02:01,590 --> 00:01:59,920

fiction writers were those two heinlein

41

00:02:03,510 --> 00:02:01,600

uh larry niven

42

00:02:04,389 --> 00:02:03,520

etc and

43

00:02:06,230 --> 00:02:04,399

they

44

00:02:08,309 --> 00:02:06,240

pretty much taught me frankly a lot

45

00:02:10,389 --> 00:02:08,319

about the way the universe might be

46

00:02:12,550 --> 00:02:10,399

constructed because they were all what

47

00:02:14,869 --> 00:02:12,560

you would call hard science fiction

48

00:02:16,630 --> 00:02:14,879

writers as opposed to the more social

49

00:02:17,910 --> 00:02:16,640

sciences types so that they would base

50

00:02:19,910 --> 00:02:17,920

their stories

51
00:02:22,150 --> 00:02:19,920
largely around some sort of scientific

52
00:02:24,710 --> 00:02:22,160
principle a novel one usually they would

53
00:02:27,110 --> 00:02:24,720
propose like you know isaac asimov's the

54
00:02:30,710 --> 00:02:27,120
laws of robotics and things like that

55
00:02:33,830 --> 00:02:30,720
uh and uh so that pretty much

56
00:02:36,550 --> 00:02:33,840
settled me in terms of my my kinds of

57
00:02:38,710 --> 00:02:36,560
interests in fiction but it kind of went

58
00:02:40,150 --> 00:02:38,720
a little bit beyond fiction in that

59
00:02:42,150 --> 00:02:40,160
you could see

60
00:02:44,390 --> 00:02:42,160
many of these things becoming a reality

61
00:02:46,229 --> 00:02:44,400
and it's almost a trope these days

62
00:02:47,990 --> 00:02:46,239
that you know science fiction becomes

63
00:02:49,350 --> 00:02:48,000

reality and the science fiction is

64

00:02:51,350 --> 00:02:49,360

really just a prediction of what's to

65

00:02:55,110 --> 00:02:51,360

come so

66

00:02:57,670 --> 00:02:55,120

that always was i guess the center of my

67

00:02:59,750 --> 00:02:57,680

fantasy mental life

68

00:03:02,229 --> 00:02:59,760

uh if you will

69

00:03:03,990 --> 00:03:02,239

arthur c clarke said himself that any

70

00:03:06,390 --> 00:03:04,000

sufficiently advanced technology would

71

00:03:07,589 --> 00:03:06,400

be indistinguishable from magic and that

72

00:03:09,430 --> 00:03:07,599

certainly sounds like something you've

73

00:03:11,589 --> 00:03:09,440

kept going throughout your career with

74

00:03:13,509 --> 00:03:11,599

some of the reported things you've had

75

00:03:15,030 --> 00:03:13,519

your hands on and got to study and just

76

00:03:16,949 --> 00:03:15,040

the work you've done

77

00:03:18,869 --> 00:03:16,959

i want to get right into talking about a

78

00:03:20,869 --> 00:03:18,879

recent podcast appearance of yours was

79

00:03:23,190 --> 00:03:20,879

on lex friedman and that was a

80

00:03:24,949 --> 00:03:23,200

fascinating wonderful discussion you

81

00:03:27,190 --> 00:03:24,959

spoke about dna

82

00:03:29,750 --> 00:03:27,200

and how it's almost a perfect memory

83

00:03:32,070 --> 00:03:29,760

system now i am far from the mind and

84

00:03:34,149 --> 00:03:32,080

the genius that lex foodman has so it'll

85

00:03:36,229 --> 00:03:34,159

be a bit more layman's terms here you

86

00:03:39,110 --> 00:03:36,239

talked about how three billion bits of

87

00:03:41,430 --> 00:03:39,120

information don't make up gary or lex or

88

00:03:43,830 --> 00:03:41,440

or andy and that's a really interesting

89

00:03:47,030 --> 00:03:43,840

way to think of it do you think we are

90

00:03:49,270 --> 00:03:47,040

created for our environment or

91

00:03:51,430 --> 00:03:49,280

are we a product of evolution or maybe a

92

00:03:53,550 --> 00:03:51,440

little bit of both

93

00:03:56,229 --> 00:03:53,560

well i i don't like to get into

94

00:03:57,429 --> 00:03:56,239

anthropomorphisms as to whether we are

95

00:03:58,550 --> 00:03:57,439

created

96

00:04:01,429 --> 00:03:58,560

per se

97

00:04:03,670 --> 00:04:01,439

let's just say that the environment is

98

00:04:04,390 --> 00:04:03,680

such that it allowed for something like

99

00:04:05,270 --> 00:04:04,400

us

100

00:04:06,309 --> 00:04:05,280

to

101
00:04:07,589 --> 00:04:06,319
become

102
00:04:10,309 --> 00:04:07,599
right so

103
00:04:13,589 --> 00:04:10,319
you know the the universe is constructed

104
00:04:15,030 --> 00:04:13,599
in a way that allows for life to live

105
00:04:16,870 --> 00:04:15,040
now

106
00:04:18,949 --> 00:04:16,880
how it was constructed

107
00:04:21,270 --> 00:04:18,959
whether it was purposefully constructed

108
00:04:23,830 --> 00:04:21,280
by something or whether it was just

109
00:04:25,990 --> 00:04:23,840
fundamentally a part of reality that

110
00:04:27,990 --> 00:04:26,000
meant it had to happen those are two

111
00:04:29,270 --> 00:04:28,000
very different things one implies an

112
00:04:32,230 --> 00:04:29,280
intent

113
00:04:35,510 --> 00:04:32,240

the other is just this is how it is and

114

00:04:37,030 --> 00:04:35,520

it has to be um now why it has to be and

115

00:04:38,550 --> 00:04:37,040

i'll leave that to the physicists and to

116

00:04:39,990 --> 00:04:38,560

the philosophers

117

00:04:41,270 --> 00:04:40,000

you know i'm just going to deal with

118

00:04:49,510 --> 00:04:41,280

what is

119

00:04:52,230 --> 00:04:49,520

that if they and and this borrows

120

00:04:53,590 --> 00:04:52,240

quite heavily from uh the selfish gene

121

00:04:57,670 --> 00:04:53,600

hypothesis

122

00:04:59,990 --> 00:04:57,680

that if you can access resources and

123

00:05:01,990 --> 00:05:00,000

make more copies of something

124

00:05:04,390 --> 00:05:02,000

you will right so that's the whole

125

00:05:05,189 --> 00:05:04,400

selfish gene idea

126
00:05:06,469 --> 00:05:05,199
that

127
00:05:09,270 --> 00:05:06,479
um

128
00:05:11,350 --> 00:05:09,280
given a limited amount of

129
00:05:13,430 --> 00:05:11,360
opportunity

130
00:05:15,189 --> 00:05:13,440
but an infinite amount of time for

131
00:05:17,909 --> 00:05:15,199
something to occur

132
00:05:19,909 --> 00:05:17,919
uh if it does occur in a way that allows

133
00:05:20,790 --> 00:05:19,919
for it then to self-perpetuate and it

134
00:05:23,110 --> 00:05:20,800
has

135
00:05:24,950 --> 00:05:23,120
access to resources it will so you don't

136
00:05:26,150 --> 00:05:24,960
need any

137
00:05:28,230 --> 00:05:26,160
uh

138
00:05:29,430 --> 00:05:28,240

other reason than

139

00:05:31,749 --> 00:05:29,440

um

140

00:05:33,670 --> 00:05:31,759

the ability to self-replicate

141

00:05:34,790 --> 00:05:33,680

for something to begin to self-replicate

142

00:05:36,230 --> 00:05:34,800

and once something starts to

143

00:05:39,510 --> 00:05:36,240

self-replicate

144

00:05:40,629 --> 00:05:39,520

it then comes into competition with

145

00:05:42,230 --> 00:05:40,639

other things that are trying to

146

00:05:44,710 --> 00:05:42,240

self-replicate and that's where

147

00:05:46,950 --> 00:05:44,720

evolution happens right that's where you

148

00:05:50,550 --> 00:05:46,960

start to vary uh the way that you

149

00:05:52,550 --> 00:05:50,560

replicate uh super to out-compete

150

00:05:54,469 --> 00:05:52,560

something else and this becomes

151
00:05:55,749 --> 00:05:54,479
especially important as resources become

152
00:06:01,189 --> 00:05:55,759
limited

153
00:06:03,029 --> 00:06:01,199
right or liv or not much reason for

154
00:06:03,909 --> 00:06:03,039
evolution but once resources start

155
00:06:07,270 --> 00:06:03,919
getting

156
00:06:09,830 --> 00:06:07,280
uh limited that's when evolution occurs

157
00:06:11,670 --> 00:06:09,840
louis elizondo a colleague of yours has

158
00:06:13,749 --> 00:06:11,680
talked about the idea on on several

159
00:06:16,790 --> 00:06:13,759
podcasts and other interviews recently

160
00:06:19,029 --> 00:06:16,800
that around 70 000 years ago our species

161
00:06:21,350 --> 00:06:19,039
hit an an exponential boost in

162
00:06:22,629 --> 00:06:21,360
development that propelled us to where

163
00:06:24,629 --> 00:06:22,639

we are now

164

00:06:26,309 --> 00:06:24,639

we also see similar boosts in evolution

165

00:06:30,710 --> 00:06:26,319

at times like the cambrian explosion

166

00:06:32,469 --> 00:06:30,720

event about 570 to 530 million years ago

167

00:06:34,629 --> 00:06:32,479

do you think there could have been a

168

00:06:36,230 --> 00:06:34,639

helping hand here to help us develop to

169

00:06:38,710 --> 00:06:36,240

where we are

170

00:06:39,830 --> 00:06:38,720

no again i i mean i mean yes there could

171

00:06:41,270 --> 00:06:39,840

have been

172

00:06:43,350 --> 00:06:41,280

um but

173

00:06:45,510 --> 00:06:43,360

again going back to the notion of

174

00:06:47,990 --> 00:06:45,520

complexity that and what's called

175

00:06:49,990 --> 00:06:48,000

emergent order is that the cambrian

176
00:06:50,950 --> 00:06:50,000
explosion at least from a genetic point

177
00:06:51,749 --> 00:06:50,960
of view

178
00:06:54,390 --> 00:06:51,759
uh

179
00:06:57,029 --> 00:06:54,400
looks like a place where suddenly the

180
00:06:59,189 --> 00:06:57,039
building blocks got complicated enough

181
00:07:01,909 --> 00:06:59,199
that you could put them together in ways

182
00:07:03,430 --> 00:07:01,919
that were extraordinarily unique it's

183
00:07:06,070 --> 00:07:03,440
kind of like you know playing some of

184
00:07:08,230 --> 00:07:06,080
those sims games that people do as you

185
00:07:10,790 --> 00:07:08,240
as you build more and more complicated

186
00:07:12,550 --> 00:07:10,800
objects in the sims game you get to put

187
00:07:15,189 --> 00:07:12,560
them together in far more complicated

188
00:07:17,270 --> 00:07:15,199

ways to build much more sophisticated

189

00:07:19,029 --> 00:07:17,280

structures and that's pretty much what

190

00:07:22,309 --> 00:07:19,039

we think happened during the time of the

191

00:07:24,150 --> 00:07:22,319

cambrian explosion that genetic modules

192

00:07:25,270 --> 00:07:24,160

had evolved

193

00:07:27,990 --> 00:07:25,280

that were

194

00:07:29,909 --> 00:07:28,000

so useful that you could mix and match

195

00:07:31,830 --> 00:07:29,919

them in so many different ways that you

196

00:07:35,029 --> 00:07:31,840

could create the incredible diversity of

197

00:07:38,469 --> 00:07:35,039

what people saw uh in the animal fauna

198

00:07:40,390 --> 00:07:38,479

and the flora kingdoms at the time

199

00:07:41,909 --> 00:07:40,400

so you know similarly

200

00:07:45,189 --> 00:07:41,919

you could think about perhaps something

201
00:07:47,189 --> 00:07:45,199
like that happening in human evolution

202
00:07:49,589 --> 00:07:47,199
that you had humans

203
00:07:53,189 --> 00:07:49,599
of different tribes uh and different

204
00:07:56,469 --> 00:07:53,199
subspecies that we all know now existed

205
00:07:59,510 --> 00:07:56,479
having let's say reached a level of

206
00:08:01,270 --> 00:07:59,520
mental complexity and the modules of the

207
00:08:04,070 --> 00:08:01,280
brain of

208
00:08:05,070 --> 00:08:04,080
that suddenly by

209
00:08:07,670 --> 00:08:05,080
them

210
00:08:10,790 --> 00:08:07,680
inter-breeding with each other could

211
00:08:13,110 --> 00:08:10,800
create forms of brain structure that

212
00:08:15,189 --> 00:08:13,120
would leap you ahead of the

213
00:08:16,390 --> 00:08:15,199

of the underlying

214

00:08:19,270 --> 00:08:16,400

parental

215

00:08:21,189 --> 00:08:19,280

species and it's called hybrid vigor in

216

00:08:23,749 --> 00:08:21,199

in one way that you bring together two

217

00:08:26,390 --> 00:08:23,759

things that uh you know weren't

218

00:08:28,309 --> 00:08:26,400

interacting before and so you could just

219

00:08:31,430 --> 00:08:28,319

as easily explain

220

00:08:33,750 --> 00:08:31,440

that leap ahead by sudden by bringing

221

00:08:35,509 --> 00:08:33,760

together fundamental modules that by

222

00:08:37,029 --> 00:08:35,519

themselves didn't do very much but then

223

00:08:39,110 --> 00:08:37,039

in one individual

224

00:08:41,509 --> 00:08:39,120

or individuals that two tribes might

225

00:08:43,750 --> 00:08:41,519

meet for instance and suddenly the

226

00:08:45,350 --> 00:08:43,760

the daughters and sons of that tribe

227

00:08:47,190 --> 00:08:45,360

were so much better than either of the

228

00:08:50,070 --> 00:08:47,200

parents that they were in and of

229

00:08:51,670 --> 00:08:50,080

themselves capable of exploding out into

230

00:08:54,949 --> 00:08:51,680

the rest of the world

231

00:08:56,550 --> 00:08:54,959

so you don't have to and and so if you

232

00:09:00,230 --> 00:08:56,560

don't have to

233

00:09:01,829 --> 00:09:00,240

postulate an intervening hand

234

00:09:02,550 --> 00:09:01,839

then uh

235

00:09:06,870 --> 00:09:02,560

why

236

00:09:09,350 --> 00:09:06,880

somebody shows me a video

237

00:09:10,310 --> 00:09:09,360

of you know of

238

00:09:13,190 --> 00:09:10,320

some

239

00:09:15,110 --> 00:09:13,200

speed alien intervention but i don't

240

00:09:16,870 --> 00:09:15,120

think you need to you don't need to go

241

00:09:19,269 --> 00:09:16,880

there yet

242

00:09:21,269 --> 00:09:19,279

are there any particular times

243

00:09:23,910 --> 00:09:21,279

in the human evolution that you look to

244

00:09:27,030 --> 00:09:23,920

and think there's been a growth or a

245

00:09:28,630 --> 00:09:27,040

change that isn't so easily explained or

246

00:09:30,550 --> 00:09:28,640

as you've kind of said do you think it's

247

00:09:31,829 --> 00:09:30,560

a case of it happened because it could

248

00:09:33,509 --> 00:09:31,839

happen

249

00:09:36,389 --> 00:09:33,519

yeah i i mean

250

00:09:38,070 --> 00:09:36,399

i think people point to the 70 000 year

251
00:09:41,350 --> 00:09:38,080
time frame

252
00:09:43,990 --> 00:09:41,360
mostly because the archaeological record

253
00:09:46,150 --> 00:09:44,000
suggests a sudden increase in societal

254
00:09:47,750 --> 00:09:46,160
interactions that allowed for

255
00:09:49,430 --> 00:09:47,760
trade

256
00:09:50,710 --> 00:09:49,440
the making of

257
00:09:53,590 --> 00:09:50,720
objects

258
00:09:55,750 --> 00:09:53,600
the building of our communities

259
00:09:57,990 --> 00:09:55,760
and so you know it's it you have to look

260
00:10:01,350 --> 00:09:58,000
at it as well it's it's not just say the

261
00:10:05,190 --> 00:10:01,360
genetic aspect of it it's building up uh

262
00:10:08,310 --> 00:10:05,200
let's say a a verbal oral history

263
00:10:10,949 --> 00:10:08,320

uh of wisdom if you will that could be

264

00:10:13,110 --> 00:10:10,959

passed down generation to generation

265

00:10:14,710 --> 00:10:13,120

right and so again it's like this idea

266

00:10:17,030 --> 00:10:14,720

of there's a you can think of it maybe

267

00:10:19,190 --> 00:10:17,040

as a cambrian explosion

268

00:10:22,870 --> 00:10:19,200

uh at the you know a hundred thousand

269

00:10:25,590 --> 00:10:22,880

ish years or so ago of both societal uh

270

00:10:27,269 --> 00:10:25,600

knowledge wisdom along with the capacity

271

00:10:29,910 --> 00:10:27,279

to understand it right the putting

272

00:10:31,030 --> 00:10:29,920

together of brain modules and brain

273

00:10:33,509 --> 00:10:31,040

abilities

274

00:10:36,150 --> 00:10:33,519

uh that you know i mean happened i

275

00:10:39,190 --> 00:10:36,160

believe through mutation obviously

276

00:10:41,509 --> 00:10:39,200

um so you know but but let's

277

00:10:42,710 --> 00:10:41,519

take a different step back and say

278

00:10:44,790 --> 00:10:42,720

you know

279

00:10:46,790 --> 00:10:44,800

let's say that you wanted

280

00:10:49,750 --> 00:10:46,800

to postulate

281

00:10:52,870 --> 00:10:49,760

a higher intelligence involvement in

282

00:10:56,710 --> 00:10:52,880

human history

283

00:10:59,910 --> 00:10:56,720

that that involvement doesn't need to be

284

00:11:01,910 --> 00:10:59,920

a genetic engineering manipulation event

285

00:11:05,509 --> 00:11:01,920

it could just be purposefully putting

286

00:11:07,509 --> 00:11:05,519

together tribes with the right features

287

00:11:09,430 --> 00:11:07,519

that when bred together

288

00:11:11,990 --> 00:11:09,440

would have a higher

289

00:11:13,350 --> 00:11:12,000

uh or a better um

290

00:11:15,509 --> 00:11:13,360

set of

291

00:11:17,430 --> 00:11:15,519

what we call phenotypes brain phenotypes

292

00:11:18,470 --> 00:11:17,440

or whatever than either of the parental

293

00:11:20,470 --> 00:11:18,480

tribes

294

00:11:21,829 --> 00:11:20,480

right so you could guide

295

00:11:23,829 --> 00:11:21,839

groups together

296

00:11:24,790 --> 00:11:23,839

uh in ways and you could put them

297

00:11:26,550 --> 00:11:24,800

through

298

00:11:28,870 --> 00:11:26,560

let's say

299

00:11:30,790 --> 00:11:28,880

wars you force them into wars to wean

300

00:11:32,630 --> 00:11:30,800

out the strong

301
00:11:34,389 --> 00:11:32,640
uh you know so you could you could do it

302
00:11:35,590 --> 00:11:34,399
without a single bit of intervention i

303
00:11:37,110 --> 00:11:35,600
mean just look at what we've done with

304
00:11:39,350 --> 00:11:37,120
dogs

305
00:11:41,670 --> 00:11:39,360
over just a few thousand years we've

306
00:11:44,150 --> 00:11:41,680
taken them from wolves to everything

307
00:11:45,190 --> 00:11:44,160
from fluffy little balls of pomeranian

308
00:11:48,550 --> 00:11:45,200
to

309
00:11:51,030 --> 00:11:48,560
you know giant mastiffs

310
00:11:53,430 --> 00:11:51,040
and i mean dogs are particularly

311
00:11:55,750 --> 00:11:53,440
pliable because of some genetic elements

312
00:11:57,110 --> 00:11:55,760
in their dna that allows for that kind

313
00:11:59,509 --> 00:11:57,120

of pliability

314

00:12:01,350 --> 00:11:59,519

unlike cats for instance you can't

315

00:12:04,230 --> 00:12:01,360

manipulate cat evolution quite as

316

00:12:06,870 --> 00:12:04,240

quickly as you can dogs but

317

00:12:09,030 --> 00:12:06,880

you know i mean that's what that's what

318

00:12:11,670 --> 00:12:09,040

i think could have been you don't have

319

00:12:13,750 --> 00:12:11,680

to say they specifically intervened in

320

00:12:17,509 --> 00:12:13,760

this way and anything of a higher

321

00:12:18,710 --> 00:12:17,519

intelligence frankly is not going to

322

00:12:20,470 --> 00:12:18,720

need to

323

00:12:22,470 --> 00:12:20,480

use the kind of crude genetic

324

00:12:24,790 --> 00:12:22,480

engineering that we use

325

00:12:26,949 --> 00:12:24,800

it could it would be far more subtle

326

00:12:30,310 --> 00:12:26,959

than what we're doing and and that kind

327

00:12:33,350 --> 00:12:30,320

of loops back to my discussions with lex

328

00:12:35,590 --> 00:12:33,360

about the compacted information inside

329

00:12:39,910 --> 00:12:35,600

of human dna

330

00:12:42,710 --> 00:12:39,920

this idea that um i mean human dna is

331

00:12:44,069 --> 00:12:42,720

is a zip file right within a zip file

332

00:12:46,790 --> 00:12:44,079

within a zip file within a zip file

333

00:12:49,829 --> 00:12:46,800

within a zip file you know ad infinitum

334

00:12:52,470 --> 00:12:49,839

and each layer of the unpacking as i had

335

00:12:54,389 --> 00:12:52,480

said there expects a context so the

336

00:12:55,750 --> 00:12:54,399

unpacking program

337

00:12:57,110 --> 00:12:55,760

the the zip

338

00:12:58,710 --> 00:12:57,120

unzipper

339

00:13:01,750 --> 00:12:58,720

uh is the

340

00:13:04,550 --> 00:13:01,760

is the point in time at which the dna is

341

00:13:06,790 --> 00:13:04,560

present in the cell at a stage of

342

00:13:07,910 --> 00:13:06,800

development of the egg to

343

00:13:10,710 --> 00:13:07,920

a baby

344

00:13:13,430 --> 00:13:10,720

right and so the zip file is unzipped in

345

00:13:15,829 --> 00:13:13,440

different ways in different cells but

346

00:13:17,590 --> 00:13:15,839

there's new information every time

347

00:13:20,310 --> 00:13:17,600

it unzips it

348

00:13:22,550 --> 00:13:20,320

and yet as i said before it's it's it's

349

00:13:25,990 --> 00:13:22,560

only three billion base pairs long and

350

00:13:27,350 --> 00:13:26,000

yet there is 10 to the

351
00:13:29,910 --> 00:13:27,360
gazillionth

352
00:13:30,629 --> 00:13:29,920
power of information somehow packed into

353
00:13:36,069 --> 00:13:30,639
it

354
00:13:37,110 --> 00:13:36,079
to

355
00:13:40,629 --> 00:13:37,120
mold

356
00:13:41,829 --> 00:13:40,639
the dna into certain outcomes so the

357
00:13:43,829 --> 00:13:41,839
universe

358
00:13:44,949 --> 00:13:43,839
in a way is part of the unzipping

359
00:13:47,110 --> 00:13:44,959
program

360
00:13:47,910 --> 00:13:47,120
uh that the cells

361
00:13:49,910 --> 00:13:47,920
at the

362
00:13:53,269 --> 00:13:49,920
origination point of an egg

363
00:13:54,949 --> 00:13:53,279

uses to unzip and then divide and now

364

00:13:56,470 --> 00:13:54,959

it's two and then now it's becoming the

365

00:13:58,310 --> 00:13:56,480

top of the body in the bottom of the

366

00:13:59,430 --> 00:13:58,320

body the head etc

367

00:14:02,470 --> 00:13:59,440

and so

368

00:14:05,430 --> 00:14:02,480

to me that's fascinating because

369

00:14:06,710 --> 00:14:05,440

again now now let's go to this idea of a

370

00:14:09,350 --> 00:14:06,720

higher level

371

00:14:11,990 --> 00:14:09,360

intelligence intervention

372

00:14:13,509 --> 00:14:12,000

to manipulate

373

00:14:16,949 --> 00:14:13,519

a human

374

00:14:20,310 --> 00:14:16,959

body to evolve something better

375

00:14:21,990 --> 00:14:20,320

requires a near god-like level of

376

00:14:25,590 --> 00:14:22,000

understanding

377

00:14:28,150 --> 00:14:25,600

to do the manipulation so that when you

378

00:14:31,670 --> 00:14:28,160

you put you change this dna here

379

00:14:34,310 --> 00:14:31,680

this base pair here it it will have

380

00:14:35,990 --> 00:14:34,320

resonating effects up and down the whole

381

00:14:38,389 --> 00:14:36,000

growth of the body so you have to

382

00:14:40,949 --> 00:14:38,399

somehow encompass a knowledge of that

383

00:14:43,590 --> 00:14:40,959

one change might have a disastrous

384

00:14:44,790 --> 00:14:43,600

effect later on in development of the

385

00:14:45,509 --> 00:14:44,800

brain

386

00:14:48,790 --> 00:14:45,519

so

387

00:14:50,949 --> 00:14:48,800

can't do right now i mean there's a

388

00:14:52,710 --> 00:14:50,959

there's a whole branch of biology called

389

00:14:54,870 --> 00:14:52,720

synthetic biology

390

00:14:56,949 --> 00:14:54,880

where they're basically starting it with

391

00:15:01,110 --> 00:14:56,959

with bacteria where we're trying to

392

00:15:04,069 --> 00:15:01,120

engineer organisms in the simplest ways

393

00:15:06,389 --> 00:15:04,079

but usually it's one gene at a time it's

394

00:15:09,430 --> 00:15:06,399

not an organismal

395

00:15:13,910 --> 00:15:09,440

systems-wide alteration because it

396

00:15:17,590 --> 00:15:13,920

requires that level of uh gestalt

397

00:15:20,069 --> 00:15:17,600

to understand all of that and so um

398

00:15:22,230 --> 00:15:20,079

so if you are going to postulate an

399

00:15:24,230 --> 00:15:22,240

intelligence at that level

400

00:15:26,310 --> 00:15:24,240

that's capable of doing that

401
00:15:28,949 --> 00:15:26,320
the changes that it would it would

402
00:15:30,870 --> 00:15:28,959
introduce would be so subtle

403
00:15:32,629 --> 00:15:30,880
that there's no

404
00:15:34,790 --> 00:15:32,639
ability today

405
00:15:36,389 --> 00:15:34,800
to see it

406
00:15:38,870 --> 00:15:36,399
it's really interesting because many

407
00:15:41,030 --> 00:15:38,880
people including myself when we think of

408
00:15:43,509 --> 00:15:41,040
the potential not saying it happens but

409
00:15:46,389 --> 00:15:43,519
the potential for another intelligence

410
00:15:48,389 --> 00:15:46,399
to manipulate us as a species would be

411
00:15:50,550 --> 00:15:48,399
direct and it would happen now and we

412
00:15:52,310 --> 00:15:50,560
hear about abductions and those sorts of

413
00:15:54,790 --> 00:15:52,320

things so do you think there would be

414

00:15:57,590 --> 00:15:54,800

more chance that if something was so

415

00:15:59,590 --> 00:15:57,600

capable technologically that all of

416

00:16:01,590 --> 00:15:59,600

those manipulations could have been done

417

00:16:03,829 --> 00:16:01,600

way way back at the start and like you

418

00:16:06,389 --> 00:16:03,839

see it left in various zip files to

419

00:16:08,550 --> 00:16:06,399

happen at various different times that

420

00:16:10,310 --> 00:16:08,560

was those intelligences could be could

421

00:16:13,749 --> 00:16:10,320

be long gone

422

00:16:15,509 --> 00:16:13,759

could basically have set it on a path

423

00:16:16,790 --> 00:16:15,519

that only needs occasional intervention

424

00:16:20,230 --> 00:16:16,800

again

425

00:16:22,389 --> 00:16:20,240

right i mean that's perfectly fine to to

426
00:16:24,069 --> 00:16:22,399
think about that you know you nudge it

427
00:16:25,350 --> 00:16:24,079
here you nudge it there

428
00:16:28,069 --> 00:16:25,360
um

429
00:16:29,189 --> 00:16:28,079
you know but but it it also comes back

430
00:16:31,350 --> 00:16:29,199
to

431
00:16:32,949 --> 00:16:31,360
jacques vale's control system

432
00:16:36,629 --> 00:16:32,959
right where he talks about the control

433
00:16:38,629 --> 00:16:36,639
system as a as a system of systems that

434
00:16:39,509 --> 00:16:38,639
is uh

435
00:16:42,389 --> 00:16:39,519
in a

436
00:16:44,790 --> 00:16:42,399
continual reinforcement pattern of doing

437
00:16:46,949 --> 00:16:44,800
something nudging seeing the effect

438
00:16:51,110 --> 00:16:46,959

looking for the feedback nudging again

439

00:16:52,629 --> 00:16:51,120

nudging again all driving humanity in a

440

00:16:54,870 --> 00:16:52,639

certain direction

441

00:16:56,790 --> 00:16:54,880

um now it

442

00:16:58,629 --> 00:16:56,800

it appears that that's what's happening

443

00:17:01,430 --> 00:16:58,639

at least from the way that jacques will

444

00:17:03,829 --> 00:17:01,440

talk about often talks about it but

445

00:17:05,350 --> 00:17:03,839

um from a human evolution point of view

446

00:17:08,309 --> 00:17:05,360

you could say that this is what's

447

00:17:10,069 --> 00:17:08,319

happening but again

448

00:17:12,949 --> 00:17:10,079

and i'm not disagreeing with it i'm just

449

00:17:14,949 --> 00:17:12,959

saying that we have to be careful not to

450

00:17:15,909 --> 00:17:14,959

claim that that's what's happening

451
00:17:19,429 --> 00:17:15,919
because

452
00:17:21,590 --> 00:17:19,439
there are perfectly normal ways

453
00:17:22,309 --> 00:17:21,600
let's say mainstream ways to talk about

454
00:17:26,870 --> 00:17:22,319
it

455
00:17:29,029 --> 00:17:26,880
that you know so you you can't say that

456
00:17:31,029 --> 00:17:29,039
the mainstream ways yet

457
00:17:32,470 --> 00:17:31,039
that even i can come up with

458
00:17:33,990 --> 00:17:32,480
uh are

459
00:17:35,270 --> 00:17:34,000
wrong

460
00:17:37,350 --> 00:17:35,280
uh so

461
00:17:38,870 --> 00:17:37,360
i i don't want to give my colleagues a

462
00:17:40,230 --> 00:17:38,880
reason to point out the things that i

463
00:17:43,590 --> 00:17:40,240

already know

464

00:17:47,110 --> 00:17:43,600

are potentially an explanation

465

00:17:49,350 --> 00:17:47,120

so it's it's it's

466

00:17:51,750 --> 00:17:49,360

you know the control system is and shock

467

00:17:53,430 --> 00:17:51,760

will probably kill me for saying this

468

00:17:56,789 --> 00:17:53,440

i i is

469

00:17:59,270 --> 00:17:56,799

is almost as

470

00:18:03,270 --> 00:17:59,280

easy as claiming it's got

471

00:18:05,669 --> 00:18:03,280

right it's a uh it's a deus ex machina

472

00:18:07,830 --> 00:18:05,679

uh that we want to be careful

473

00:18:09,110 --> 00:18:07,840

where and when we

474

00:18:11,669 --> 00:18:09,120

deploy it

475

00:18:13,029 --> 00:18:11,679

to explain things that we're seeing

476

00:18:14,789 --> 00:18:13,039

does that make sense

477

00:18:16,310 --> 00:18:14,799

yes it does yeah and i'm sure it makes

478

00:18:18,070 --> 00:18:16,320

even more sense to the more intelligent

479

00:18:19,669 --> 00:18:18,080

listeners out there as well oh i'm sure

480

00:18:21,350 --> 00:18:19,679

you're fine

481

00:18:23,110 --> 00:18:21,360

you have a big forehead it must be a

482

00:18:24,549 --> 00:18:23,120

brain in there somewhere i think it's

483

00:18:26,310 --> 00:18:24,559

the bad light and then here it's the bad

484

00:18:28,630 --> 00:18:26,320

light

485

00:18:30,870 --> 00:18:28,640

gary i want to ask about you've talked

486

00:18:32,950 --> 00:18:30,880

about how we as a species have developed

487

00:18:35,110 --> 00:18:32,960

and i want to know your thoughts on and

488

00:18:37,110 --> 00:18:35,120

what another intelligent life form could

489

00:18:39,190 --> 00:18:37,120

potentially look like

490

00:18:41,190 --> 00:18:39,200

in various hollywood films you see it

491

00:18:43,110 --> 00:18:41,200

interpreted in different ways

492

00:18:45,669 --> 00:18:43,120

an arrival there's a species that

493

00:18:47,830 --> 00:18:45,679

experience time different to us and

494

00:18:50,470 --> 00:18:47,840

annihilation that the shimmer is not

495

00:18:52,230 --> 00:18:50,480

under understandable to us what do you

496

00:18:54,310 --> 00:18:52,240

think it would be likely another

497

00:18:56,789 --> 00:18:54,320

intelligent species could look like or

498

00:18:58,310 --> 00:18:56,799

are the possibilities just too infinite

499

00:19:00,630 --> 00:18:58,320

uh well i think they're in they're

500

00:19:01,669 --> 00:19:00,640

infinite i mean take any animal in our

501
00:19:04,390 --> 00:19:01,679
ocean

502
00:19:06,789 --> 00:19:04,400
uh and uh you know

503
00:19:08,310 --> 00:19:06,799
basically give it a reason for creating

504
00:19:12,230 --> 00:19:08,320
a society

505
00:19:16,150 --> 00:19:12,240
and uh or have an oral history

506
00:19:18,630 --> 00:19:16,160
uh that it can pass to its children

507
00:19:21,270 --> 00:19:18,640
um and

508
00:19:23,669 --> 00:19:21,280
you know and and so therefore time

509
00:19:26,710 --> 00:19:23,679
doesn't become a limitation in terms of

510
00:19:28,710 --> 00:19:26,720
achievement levels that can be um

511
00:19:30,870 --> 00:19:28,720
obtained attained

512
00:19:32,390 --> 00:19:30,880
uh and and you can create an

513
00:19:35,750 --> 00:19:32,400

intelligence i mean you know we all look

514

00:19:36,870 --> 00:19:35,760

at at octopuses as probably one of the

515

00:19:38,870 --> 00:19:36,880

most

516

00:19:40,789 --> 00:19:38,880

interesting next

517

00:19:42,390 --> 00:19:40,799

intelligences on the planet i mean

518

00:19:43,750 --> 00:19:42,400

obviously other than the cetaceans the

519

00:19:46,950 --> 00:19:43,760

cetaceans are

520

00:19:49,990 --> 00:19:46,960

are you know dolphins and whales are

521

00:19:53,510 --> 00:19:50,000

obviously intelligent

522

00:19:54,230 --> 00:19:53,520

elephants are intelligent uh

523

00:19:56,390 --> 00:19:54,240

the

524

00:19:57,830 --> 00:19:56,400

uh i i mean i can't even eat octopus

525

00:19:59,830 --> 00:19:57,840

anymore because

526

00:20:03,029 --> 00:19:59,840

you know of that damn movie my my

527

00:20:05,110 --> 00:20:03,039

octopus friend or whatever

528

00:20:07,750 --> 00:20:05,120

you know um

529

00:20:10,149 --> 00:20:07,760

it's uh and here you have a distributed

530

00:20:11,590 --> 00:20:10,159

nervous system in the

531

00:20:13,830 --> 00:20:11,600

in the octopus it doesn't have a central

532

00:20:16,470 --> 00:20:13,840

brain like we do it has distributed

533

00:20:19,350 --> 00:20:16,480

nervous systems so you know

534

00:20:21,029 --> 00:20:19,360

what kind of intelligence would evolve

535

00:20:23,830 --> 00:20:21,039

out of that

536

00:20:25,750 --> 00:20:23,840

something that would have what how many

537

00:20:26,549 --> 00:20:25,760

tentacles do most octopus have i don't

538

00:20:29,270 --> 00:20:26,559

know

539

00:20:31,270 --> 00:20:29,280

uh but they have basically let's say 10

540

00:20:32,470 --> 00:20:31,280

sub brains in addition to their main

541

00:20:33,270 --> 00:20:32,480

brain

542

00:20:34,950 --> 00:20:33,280

so

543

00:20:36,789 --> 00:20:34,960

you know as that

544

00:20:38,549 --> 00:20:36,799

as an intelligence like that began to

545

00:20:40,070 --> 00:20:38,559

evolve you could imagine different of

546

00:20:42,950 --> 00:20:40,080

those sub-brains taking on different

547

00:20:45,990 --> 00:20:42,960

functions like our brain has what are

548

00:20:49,430 --> 00:20:46,000

called nuclei within them those are all

549

00:20:51,510 --> 00:20:49,440

condensed regions of neural interactions

550

00:20:52,870 --> 00:20:51,520

little circuitries that carry out

551
00:20:54,390 --> 00:20:52,880
different functions one was a memory

552
00:20:56,789 --> 00:20:54,400
system another is

553
00:20:58,230 --> 00:20:56,799
fear another is computation another is

554
00:21:00,830 --> 00:20:58,240
where you think your consciousness

555
00:21:06,549 --> 00:21:03,909
um would an octopus have a distributed

556
00:21:08,310 --> 00:21:06,559
consciousness around all of those

557
00:21:09,909 --> 00:21:08,320
sub-brains

558
00:21:12,149 --> 00:21:09,919
would one of them be the subconscious

559
00:21:13,990 --> 00:21:12,159
and the other be the conscious

560
00:21:16,230 --> 00:21:14,000
you know you can i mean just reading

561
00:21:17,990 --> 00:21:16,240
science fiction and this is what i get

562
00:21:21,830 --> 00:21:18,000
my jollies out of

563
00:21:25,990 --> 00:21:21,840

is uh is where readers where writers

564

00:21:27,510 --> 00:21:26,000

like larry niven or or david brin or um

565

00:21:31,110 --> 00:21:27,520

verner divinge

566

00:21:34,549 --> 00:21:31,120

uh they start with an evolutionary

567

00:21:36,549 --> 00:21:34,559

assumption about an animal that is

568

00:21:39,830 --> 00:21:36,559

becoming intelligent

569

00:21:41,990 --> 00:21:39,840

uh and then they take it to the extreme

570

00:21:45,350 --> 00:21:42,000

of what the civilizational principles

571

00:21:47,510 --> 00:21:45,360

would be for that animal

572

00:21:48,950 --> 00:21:47,520

right still began life as an animal and

573

00:21:52,789 --> 00:21:48,960

a lot of these books

574

00:21:56,070 --> 00:21:52,799

are all about the conflict between

575

00:21:59,830 --> 00:21:56,080

what intelligence demands versus what

576

00:22:02,070 --> 00:21:59,840

the evolutionary background limits

577

00:22:05,029 --> 00:22:02,080

like our evolutionary background limits

578

00:22:06,789 --> 00:22:05,039

us to certain kinds of monkey behaviors

579

00:22:09,350 --> 00:22:06,799

and certain kinds of

580

00:22:11,909 --> 00:22:09,360

tribal interactions

581

00:22:13,270 --> 00:22:11,919

you know the in larry niven's books the

582

00:22:15,350 --> 00:22:13,280

puppeteers

583

00:22:16,870 --> 00:22:15,360

are derived from

584

00:22:22,070 --> 00:22:16,880

a herd animal

585

00:22:24,310 --> 00:22:22,080

his cases they lead from behind so

586

00:22:27,430 --> 00:22:24,320

cowardice is the moral principle run

587

00:22:28,950 --> 00:22:27,440

away first don't fight

588

00:22:30,230 --> 00:22:28,960

uh and yet

589

00:22:31,990 --> 00:22:30,240

you know he writes about how they

590

00:22:33,750 --> 00:22:32,000

achieved intelligence a million years

591

00:22:35,590 --> 00:22:33,760

ahead of humans

592

00:22:39,270 --> 00:22:35,600

uh and they're you know they're pretty

593

00:22:41,270 --> 00:22:39,280

manipulative machiavellian characters

594

00:22:43,669 --> 00:22:41,280

i'm glad you mentioned the oceans and

595

00:22:47,110 --> 00:22:43,679

talking about octopus and

596

00:22:49,110 --> 00:22:47,120

there are a lot of discussions about uap

597

00:22:51,909 --> 00:22:49,120

and potential craft

598

00:22:54,149 --> 00:22:51,919

either being from our oceans or at least

599

00:22:56,789 --> 00:22:54,159

using them as a place to hide the now

600

00:22:58,789 --> 00:22:56,799

infamous tic-tac events 2004 the objects

601
00:23:01,110 --> 00:22:58,799
were seen going in and out of the water

602
00:23:03,350 --> 00:23:01,120
and we've heard more recently in 2019

603
00:23:05,750 --> 00:23:03,360
again objects being found going into the

604
00:23:07,270 --> 00:23:05,760
water and disappearing or at least not

605
00:23:09,110 --> 00:23:07,280
being found

606
00:23:11,669 --> 00:23:09,120
what do you think the chances are that

607
00:23:13,750 --> 00:23:11,679
given life began within the oceans that

608
00:23:16,390 --> 00:23:13,760
something else could have evolved ahead

609
00:23:18,870 --> 00:23:16,400
of us as a species and potentially be

610
00:23:21,350 --> 00:23:18,880
the occupants of potential craft that we

611
00:23:23,590 --> 00:23:21,360
now see in our skies

612
00:23:25,510 --> 00:23:23,600
i have no problem with that you know i i

613
00:23:28,230 --> 00:23:25,520

don't think they have to have i mean we

614

00:23:30,549 --> 00:23:28,240

evolved originally in the oceans um i

615

00:23:32,390 --> 00:23:30,559

don't think they had to have had uh an

616

00:23:33,909 --> 00:23:32,400

evolutionary start

617

00:23:35,830 --> 00:23:33,919

uh or

618

00:23:38,230 --> 00:23:35,840

they didn't need to achieve a

619

00:23:40,310 --> 00:23:38,240

civilization that was under water

620

00:23:41,669 --> 00:23:40,320

that could have been on land and then

621

00:23:43,830 --> 00:23:41,679

they decided

622

00:23:45,909 --> 00:23:43,840

well you know why do we need the surface

623

00:23:48,630 --> 00:23:45,919

there we can create a hundred

624

00:23:50,630 --> 00:23:48,640

earths you know every you know every

625

00:23:52,230 --> 00:23:50,640

five miles under the earth we could

626

00:23:55,350 --> 00:23:52,240

create caverns

627

00:23:57,190 --> 00:23:55,360

and live down there create our own light

628

00:23:59,430 --> 00:23:57,200

there's plenty of energy you know in the

629

00:24:01,110 --> 00:23:59,440

molten core that we could take advantage

630

00:24:03,750 --> 00:24:01,120

of and never have to see the surface

631

00:24:06,549 --> 00:24:03,760

again we'll leave the surface to

632

00:24:08,789 --> 00:24:06,559

you know to uh the animals and let

633

00:24:10,710 --> 00:24:08,799

something else evolve

634

00:24:13,510 --> 00:24:10,720

you know david bryn's books are

635

00:24:15,350 --> 00:24:13,520

fascinating because

636

00:24:16,390 --> 00:24:15,360

he actually takes a more interventional

637

00:24:20,470 --> 00:24:16,400

approach

638

00:24:22,710 --> 00:24:20,480

where uh the species around the galaxies

639

00:24:24,789 --> 00:24:22,720

will search out new planets where

640

00:24:27,190 --> 00:24:24,799

there's a sub-sentient

641

00:24:29,110 --> 00:24:27,200

uh species

642

00:24:30,310 --> 00:24:29,120

almost ready to be

643

00:24:31,350 --> 00:24:30,320

ascended

644

00:24:33,510 --> 00:24:31,360

and

645

00:24:37,430 --> 00:24:33,520

they will then claim that planet

646

00:24:40,470 --> 00:24:37,440

ascend the species uh and they would put

647

00:24:42,549 --> 00:24:40,480

the species under servitude for you know

648

00:24:44,070 --> 00:24:42,559

half a million years uh but then they

649

00:24:45,430 --> 00:24:44,080

become part of a clan and then it's all

650

00:24:47,190 --> 00:24:45,440

about the clans interacting with other

651
00:24:48,950 --> 00:24:47,200
clans and the whole objective is to

652
00:24:49,990 --> 00:24:48,960
collect as many species as you can to

653
00:24:52,950 --> 00:24:50,000
make your

654
00:24:55,190 --> 00:24:52,960
tribe of species larger

655
00:24:58,149 --> 00:24:55,200
right and but again each of those

656
00:24:59,350 --> 00:24:58,159
species is limited by their evolutionary

657
00:25:01,430 --> 00:24:59,360
past

658
00:25:03,990 --> 00:25:01,440
and it's used to predict and so i i just

659
00:25:06,149 --> 00:25:04,000
find that a fascinating approach and

660
00:25:08,630 --> 00:25:06,159
it's in many ways prepared me

661
00:25:10,230 --> 00:25:08,640
to be very open-minded about what it is

662
00:25:13,350 --> 00:25:10,240
we might be dealing with today in the

663
00:25:14,789 --> 00:25:13,360

uaps that are being seen

664

00:25:16,789 --> 00:25:14,799

to take that a step further we're

665

00:25:19,190 --> 00:25:16,799

talking about the oceans the skies and

666

00:25:21,029 --> 00:25:19,200

obviously the land as well however given

667

00:25:23,590 --> 00:25:21,039

the breadth of the electromagnetic

668

00:25:25,750 --> 00:25:23,600

spectrum what do you think of that about

669

00:25:28,230 --> 00:25:25,760

the idea of life being present in other

670

00:25:30,470 --> 00:25:28,240

parts of it but unable to interact with

671

00:25:33,590 --> 00:25:30,480

us and is it possible something could

672

00:25:34,950 --> 00:25:33,600

see us whilst we simply can't see them

673

00:25:37,190 --> 00:25:34,960

yeah i mean

674

00:25:40,549 --> 00:25:37,200

you know i mean this gets into

675

00:25:42,149 --> 00:25:40,559

realms of physics where people

676
00:25:44,230 --> 00:25:42,159
you know like to talk about things like

677
00:25:45,990 --> 00:25:44,240
multiverses and all the rest i mean it's

678
00:25:46,870 --> 00:25:46,000
part of the zeitgeist

679
00:25:48,630 --> 00:25:46,880
with

680
00:25:50,789 --> 00:25:48,640
the the multiverse there's like two or

681
00:25:53,430 --> 00:25:50,799
three big multiverse movies out right

682
00:25:56,950 --> 00:25:53,440
now yeah um two from marvel and the

683
00:26:01,269 --> 00:25:56,960
other i forget the name of the woman the

684
00:26:04,149 --> 00:26:01,279
asian woman uh who is in another uh

685
00:26:06,789 --> 00:26:04,159
another great movie um

686
00:26:08,710 --> 00:26:06,799
so yes if there are

687
00:26:11,269 --> 00:26:08,720
levels of existence

688
00:26:13,990 --> 00:26:11,279

that are next to us

689

00:26:14,950 --> 00:26:14,000

but not accessible to us

690

00:26:17,269 --> 00:26:14,960

but

691

00:26:19,029 --> 00:26:17,279

it's sort of like a one-way mirror

692

00:26:20,230 --> 00:26:19,039

you know we don't see them but they see

693

00:26:23,190 --> 00:26:20,240

us

694

00:26:25,350 --> 00:26:23,200

uh and they can step into our reality or

695

00:26:28,149 --> 00:26:25,360

reach into our reality

696

00:26:30,230 --> 00:26:28,159

um you know if if you could reach into a

697

00:26:33,110 --> 00:26:30,240

nearby reality just by

698

00:26:34,950 --> 00:26:33,120

force of you know force of will

699

00:26:37,029 --> 00:26:34,960

uh and

700

00:26:40,149 --> 00:26:37,039

manipulate things that are there would

701
00:26:40,870 --> 00:26:40,159
you maybe i mean

702
00:27:04,950 --> 00:26:40,880
i

703
00:27:06,950 --> 00:27:04,960
really strange technology poke prod and

704
00:27:09,830 --> 00:27:06,960
then throw it back and it's got striking

705
00:27:11,750 --> 00:27:09,840
similarities to alien abductions and and

706
00:27:13,350 --> 00:27:11,760
what may happen with another intelligent

707
00:27:15,269 --> 00:27:13,360
species looking at us

708
00:27:16,630 --> 00:27:15,279
in the same way as a fish would that be

709
00:27:17,590 --> 00:27:16,640
fair

710
00:27:19,750 --> 00:27:17,600
oh yeah

711
00:27:20,950 --> 00:27:19,760
for sure i mean

712
00:27:22,630 --> 00:27:20,960
you know that's kind of the zoo

713
00:27:23,510 --> 00:27:22,640

hypothesis

714

00:27:26,149 --> 00:27:23,520

that

715

00:27:28,710 --> 00:27:26,159

we're we're basically

716

00:27:29,669 --> 00:27:28,720

somebody's not if not property

717

00:27:33,110 --> 00:27:29,679

we're

718

00:27:34,470 --> 00:27:33,120

not considered equal ethically

719

00:27:36,710 --> 00:27:34,480

to them

720

00:27:40,070 --> 00:27:36,720

whatever their ethics might be

721

00:27:41,830 --> 00:27:40,080

um but you know it also might be in from

722

00:27:42,630 --> 00:27:41,840

their point of view

723

00:27:44,070 --> 00:27:42,640

uh

724

00:27:46,149 --> 00:27:44,080

to our benefit

725

00:27:47,669 --> 00:27:46,159

to what it is that they're doing

726

00:27:49,350 --> 00:27:47,679

to us or with us

727

00:27:51,510 --> 00:27:49,360

you know maybe they're you know this

728

00:27:53,909 --> 00:27:51,520

whole idea that we were somehow

729

00:27:56,470 --> 00:27:53,919

manipulated 70 000 years ago which again

730

00:27:58,710 --> 00:27:56,480

i i i question

731

00:28:01,269 --> 00:27:58,720

severely that conclusion

732

00:28:02,710 --> 00:28:01,279

um but if you say that that's what might

733

00:28:04,789 --> 00:28:02,720

have happened

734

00:28:07,110 --> 00:28:04,799

um then

735

00:28:08,950 --> 00:28:07,120

the manipulation

736

00:28:12,549 --> 00:28:08,960

presumably accelerated something that

737

00:28:16,230 --> 00:28:13,990

and if

738

00:28:18,310 --> 00:28:16,240

what is of interest to them was to get

739

00:28:19,430 --> 00:28:18,320

us to a higher level of intelligence

740

00:28:21,510 --> 00:28:19,440

faster

741

00:28:24,230 --> 00:28:21,520

you then have to ask what's the agenda

742

00:28:26,710 --> 00:28:24,240

are they looking for equal partners

743

00:28:30,149 --> 00:28:26,720

or are they looking for something that

744

00:28:31,909 --> 00:28:30,159

can be used

745

00:28:35,430 --> 00:28:31,919

movie you mentioned that was everything

746

00:28:37,190 --> 00:28:35,440

everywhere all at once i believe

747

00:28:38,470 --> 00:28:37,200

just in case any movie fans are thinking

748

00:28:39,830 --> 00:28:38,480

oh i've got another couple of movies i

749

00:28:41,990 --> 00:28:39,840

can watch that's that's the one i

750

00:28:44,230 --> 00:28:42,000

haven't seen it yet but i i've heard

751

00:28:45,909 --> 00:28:44,240

great things about it me neither but i

752

00:28:47,190 --> 00:28:45,919

know dan has and it was dan that threw

753

00:28:50,149 --> 00:28:47,200

up the name of it in the background

754

00:28:51,830 --> 00:28:50,159

there um you mentioned manipulation and

755

00:28:53,669 --> 00:28:51,840

and something you talked about that that

756

00:28:56,630 --> 00:28:53,679

got me thinking on the lex friedman

757

00:28:59,990 --> 00:28:56,640

podcast was about the basal ganglia that

758

00:29:02,470 --> 00:29:00,000

part of the brain and you talked about

759

00:29:04,070 --> 00:29:02,480

its potential for

760

00:29:05,510 --> 00:29:04,080

higher intuition

761

00:29:07,990 --> 00:29:05,520

and processing

762

00:29:10,789 --> 00:29:08,000

and well you disagreed that it could

763

00:29:12,870 --> 00:29:10,799

potentially be used to you know

764

00:29:15,350 --> 00:29:12,880

was it to do with abductions or

765

00:29:17,269 --> 00:29:15,360

manipulation of other alien species not

766

00:29:20,710 --> 00:29:17,279

quite that

767

00:29:23,669 --> 00:29:20,720

well yeah i mean i i i have to apologize

768

00:29:25,909 --> 00:29:23,679

if anything that i kind of overstated

769

00:29:28,149 --> 00:29:25,919

at one point i said the ufo community

770

00:29:29,430 --> 00:29:28,159

misinterpreted or went too far

771

00:29:31,590 --> 00:29:29,440

um well

772

00:29:33,830 --> 00:29:31,600

i was the one who gave them the raw

773

00:29:37,190 --> 00:29:33,840

material to go too far i mean

774

00:29:39,510 --> 00:29:37,200

uh so i can't blame anybody but myself

775

00:29:42,070 --> 00:29:39,520

uh but i mean the

776

00:29:44,630 --> 00:29:42,080

the idea was this was sort of a side

777

00:29:46,870 --> 00:29:44,640

observation to the damage that we were

778

00:29:48,710 --> 00:29:46,880

seeing in some of these patients that

779

00:29:50,549 --> 00:29:48,720

kit green had

780

00:29:51,590 --> 00:29:50,559

most of whom we now know

781

00:29:53,430 --> 00:29:51,600

are

782

00:29:55,190 --> 00:29:53,440

essentially havana syndrome but there's

783

00:29:57,830 --> 00:29:55,200

a subset that we're not

784

00:29:59,750 --> 00:29:57,840

uh and cannot be explained by any kind

785

00:30:01,590 --> 00:29:59,760

of havana syndrome and there was clearly

786

00:30:02,950 --> 00:30:01,600

some kind of interaction with something

787

00:30:03,750 --> 00:30:02,960

unusual

788

00:30:04,470 --> 00:30:03,760

um

789

00:30:06,630 --> 00:30:04,480

but

790

00:30:09,029 --> 00:30:06,640

it was that the side observation was

791

00:30:12,630 --> 00:30:09,039

that there was this uh compaction of

792

00:30:14,870 --> 00:30:12,640

neural density between these two nuclei

793

00:30:16,470 --> 00:30:14,880

of the brain the head of the caudate and

794

00:30:19,269 --> 00:30:16,480

the putamen which is part of the basal

795

00:30:20,470 --> 00:30:19,279

ganglia it was it's that central core

796

00:30:21,510 --> 00:30:20,480

um

797

00:30:23,350 --> 00:30:21,520

that were

798

00:30:24,870 --> 00:30:23,360

we found in what we called high

799

00:30:27,190 --> 00:30:24,880

functioning individuals

800

00:30:29,430 --> 00:30:27,200

smart people right and you just you can

801
00:30:31,510 --> 00:30:29,440
define smart in many different ways it

802
00:30:33,830 --> 00:30:31,520
is not just you're good at math or

803
00:30:36,710 --> 00:30:33,840
you're good at science you can be good

804
00:30:39,269 --> 00:30:36,720
at a lot of things and be still smart

805
00:30:42,950 --> 00:30:39,279
um but it's about integration of

806
00:30:44,789 --> 00:30:42,960
information right so inter intuition is

807
00:30:47,110 --> 00:30:44,799
at the heart of things

808
00:30:51,590 --> 00:30:47,120
an unconscious

809
00:30:54,230 --> 00:30:51,600
uh conclusion that you make that was not

810
00:30:56,870 --> 00:30:54,240
i drew it out one plus one equals two

811
00:30:59,590 --> 00:30:56,880
two times five equals ten you know i

812
00:31:01,269 --> 00:30:59,600
drew out some proof of what it is this

813
00:31:05,029 --> 00:31:01,279

is this leap

814

00:31:07,830 --> 00:31:05,039

that occurs uh that still puzzles

815

00:31:09,750 --> 00:31:07,840

neurological scientists about how these

816

00:31:11,590 --> 00:31:09,760

leaps are made

817

00:31:13,430 --> 00:31:11,600

where is the information if you want to

818

00:31:15,430 --> 00:31:13,440

be purely materialistic where is the

819

00:31:19,350 --> 00:31:15,440

information process that allows for that

820

00:31:21,190 --> 00:31:19,360

to occur like a an autistic savant who

821

00:31:23,110 --> 00:31:21,200

you can ask them what the square root of

822

00:31:24,710 --> 00:31:23,120

some giant prime number is times

823

00:31:26,310 --> 00:31:24,720

whatever and they can instantly spit out

824

00:31:28,149 --> 00:31:26,320

the answer

825

00:31:29,350 --> 00:31:28,159

where did that come from how did they

826

00:31:32,549 --> 00:31:29,360

compute that

827

00:31:34,789 --> 00:31:32,559

um materialists would like to say

828

00:31:36,789 --> 00:31:34,799

it was somehow computed in the brain

829

00:31:38,950 --> 00:31:36,799

uh others would say that they reached

830

00:31:41,350 --> 00:31:38,960

into the akashic record and pulled the

831

00:31:43,990 --> 00:31:41,360

information from the akashic record

832

00:31:46,070 --> 00:31:44,000

right some sort of or that they foretold

833

00:31:47,750 --> 00:31:46,080

the answer through some sort of time

834

00:31:48,630 --> 00:31:47,760

space leap

835

00:31:50,549 --> 00:31:48,640

um

836

00:31:53,590 --> 00:31:50,559

you know i'm i'm

837

00:31:55,590 --> 00:31:53,600

open to both of those things but what it

838

00:31:57,669 --> 00:31:55,600

is a hundred percent clear

839

00:32:00,230 --> 00:31:57,679

and we've now done a study with a group

840

00:32:02,789 --> 00:32:00,240

at harvard who are neuroscientists it's

841

00:32:04,549 --> 00:32:02,799

a hundred percent clear that kits and my

842

00:32:08,149 --> 00:32:04,559

original observation about this being

843

00:32:10,149 --> 00:32:08,159

involved in intuition is 100 correct

844

00:32:12,870 --> 00:32:10,159

right so we intuited

845

00:32:14,470 --> 00:32:12,880

that this was the area of intuition

846

00:32:16,149 --> 00:32:14,480

at pretty much the same time as we were

847

00:32:17,590 --> 00:32:16,159

doing it papers were already coming out

848

00:32:19,669 --> 00:32:17,600

in the mainstream literature and we that

849

00:32:22,310 --> 00:32:19,679

we were unaware of

850

00:32:25,990 --> 00:32:22,320

but you know ideas are often in the air

851

00:32:30,230 --> 00:32:26,000

uh that the caudate especially

852

00:32:31,509 --> 00:32:30,240

uh is a center of let's call it logic

853

00:32:33,350 --> 00:32:31,519

processing

854

00:32:34,950 --> 00:32:33,360

um and so what

855

00:32:37,990 --> 00:32:34,960

i have been saying

856

00:32:42,470 --> 00:32:38,000

is that if information

857

00:32:43,990 --> 00:32:42,480

can come through some anomalous channel

858

00:32:45,590 --> 00:32:44,000

right and by that i'm not trying to hide

859

00:32:47,990 --> 00:32:45,600

anything i'm really talking about some

860

00:32:49,190 --> 00:32:48,000

sort of psychic power

861

00:32:53,269 --> 00:32:49,200

um

862

00:32:56,710 --> 00:32:53,279

some sort of psychic ability uh it will

863

00:32:58,070 --> 00:32:56,720

performer be processed through this

864

00:33:01,509 --> 00:32:58,080

region

865

00:33:03,990 --> 00:33:01,519

and if information is to be laid onto

866

00:33:06,950 --> 00:33:04,000

human consciousness

867

00:33:10,870 --> 00:33:06,960

in our brain it's going to come through

868

00:33:12,230 --> 00:33:10,880

one of the at least five known

869

00:33:13,750 --> 00:33:12,240

mainstream

870

00:33:14,950 --> 00:33:13,760

senses

871

00:33:16,630 --> 00:33:14,960

and so

872

00:33:19,110 --> 00:33:16,640

different people with different

873

00:33:20,710 --> 00:33:19,120

capabilities let's say emotional

874

00:33:22,789 --> 00:33:20,720

intelligence or

875

00:33:25,029 --> 00:33:22,799

uh visual or

876

00:33:26,470 --> 00:33:25,039

sensory or whatever

877

00:33:28,310 --> 00:33:26,480

the information can be layered in

878

00:33:30,630 --> 00:33:28,320

different ways and then will be

879

00:33:33,110 --> 00:33:30,640

interpreted through those channels

880

00:33:35,909 --> 00:33:33,120

but it's it's being layered into that so

881

00:33:37,350 --> 00:33:35,919

i use the example of of that guy tyler

882

00:33:39,110 --> 00:33:37,360

henry

883

00:33:42,549 --> 00:33:39,120

there's a television show that he's he

884

00:33:45,110 --> 00:33:42,559

has he's a medium i mean

885

00:33:47,509 --> 00:33:45,120

i listen to him and watch him

886

00:33:49,269 --> 00:33:47,519

uh as he's

887

00:33:50,470 --> 00:33:49,279

giving these readings

888

00:33:52,070 --> 00:33:50,480

and i'm wondering

889

00:33:53,990 --> 00:33:52,080

and he says i see this and there and

890

00:33:55,990 --> 00:33:54,000

there's telling me that and and i'm

891

00:33:58,389 --> 00:33:56,000

wondering how

892

00:34:00,149 --> 00:33:58,399

what's going on inside of his head

893

00:34:01,590 --> 00:34:00,159

that's allowing him to come to these

894

00:34:04,470 --> 00:34:01,600

conclusions

895

00:34:06,549 --> 00:34:04,480

and where's the information coming from

896

00:34:09,270 --> 00:34:06,559

and how is it being how is that

897

00:34:11,190 --> 00:34:09,280

information being interpreted

898

00:34:12,389 --> 00:34:11,200

in the brain i mean i'd love to sit down

899

00:34:14,230 --> 00:34:12,399

and have a conversation with him he and

900

00:34:17,270 --> 00:34:14,240

i have had a couple of quick back

901
00:34:19,430 --> 00:34:17,280
channel discussions um on twitter but

902
00:34:20,550 --> 00:34:19,440
he's a he's i mean if i'm busy he seems

903
00:34:21,829 --> 00:34:20,560
a thousand times busier because

904
00:34:22,950 --> 00:34:21,839
everybody and their brother wants a

905
00:34:25,589 --> 00:34:22,960
reading

906
00:34:27,510 --> 00:34:25,599
um you know so uh

907
00:34:30,069 --> 00:34:27,520
but

908
00:34:31,909 --> 00:34:30,079
that's the question i want to get from

909
00:34:33,430 --> 00:34:31,919
some of these mediums is what is it that

910
00:34:36,470 --> 00:34:33,440
they see

911
00:34:39,430 --> 00:34:36,480
and and what is the feeling of the sense

912
00:34:41,270 --> 00:34:39,440
i mean when i get an intuitive flash

913
00:34:43,669 --> 00:34:41,280

about something and i'm not a medium or

914

00:34:44,790 --> 00:34:43,679

a remote viewer or anything like that

915

00:34:48,310 --> 00:34:44,800

um

916

00:34:49,829 --> 00:34:48,320

i say that it to me it has a specific

917

00:34:52,230 --> 00:34:49,839

color or a

918

00:34:53,430 --> 00:34:52,240

flavor that's different than other ideas

919

00:34:55,669 --> 00:34:53,440

that arrive

920

00:34:57,430 --> 00:34:55,679

i mean i and i've started to train

921

00:34:58,390 --> 00:34:57,440

myself to say ah

922

00:35:46,710 --> 00:34:58,400

i

923

00:35:48,710 --> 00:35:46,720

have to to have such an advanced

924

00:35:51,190 --> 00:35:48,720

knowledge of you know us and the

925

00:35:53,430 --> 00:35:51,200

universe to to create dna and and

926
00:35:55,589 --> 00:35:53,440
manipulate it like they apparently or

927
00:35:58,310 --> 00:35:55,599
could do is there a chance that a

928
00:36:00,710 --> 00:35:58,320
species like that could wirelessly tap

929
00:36:03,270 --> 00:36:00,720
into some of these parts of the brain to

930
00:36:05,510 --> 00:36:03,280
manipulate what people see and this

931
00:36:07,910 --> 00:36:05,520
could be a reason why people can see the

932
00:36:10,710 --> 00:36:07,920
same sighting for example of a ufo or a

933
00:36:12,069 --> 00:36:10,720
uap but describe different effects

934
00:36:13,430 --> 00:36:12,079
because they're receiving it in a

935
00:36:16,390 --> 00:36:13,440
different way yeah

936
00:36:19,750 --> 00:36:16,400
exactly i mean i use the term telefactor

937
00:36:22,230 --> 00:36:19,760
in the information you know

938
00:36:23,430 --> 00:36:22,240

again mainstream science

939

00:36:24,870 --> 00:36:23,440

you can

940

00:36:28,470 --> 00:36:24,880

now put

941

00:36:31,109 --> 00:36:28,480

a receiver or even a transmitter onto

942

00:36:33,349 --> 00:36:31,119

people's heads and you can start to make

943

00:36:35,589 --> 00:36:33,359

them see or hear things

944

00:36:37,910 --> 00:36:35,599

uh that they wouldn't uh

945

00:36:41,270 --> 00:36:37,920

be able to i mean through electronic

946

00:36:42,950 --> 00:36:41,280

means right transcranial stimulation etc

947

00:36:45,109 --> 00:36:42,960

or or read

948

00:36:48,390 --> 00:36:45,119

uh what people's thoughts

949

00:36:49,829 --> 00:36:48,400

right i mean it's very crude it's not

950

00:36:51,990 --> 00:36:49,839

movie level

951
00:36:55,510 --> 00:36:52,000
you know i'm i'm i'm reading your

952
00:36:57,910 --> 00:36:55,520
innermost desires but

953
00:37:01,109 --> 00:36:57,920
i mean even with our crude technology it

954
00:37:02,870 --> 00:37:01,119
can be done so again imagine

955
00:37:05,430 --> 00:37:02,880
something a little bit more advanced or

956
00:37:07,910 --> 00:37:05,440
a lot more advanced than us i see no

957
00:37:09,990 --> 00:37:07,920
reason why it couldn't reach into our

958
00:37:12,470 --> 00:37:10,000
brains and make us think things

959
00:37:14,710 --> 00:37:12,480
and transmit information a thousand

960
00:37:16,550 --> 00:37:14,720
years from now assuming we don't

961
00:37:17,589 --> 00:37:16,560
you know walk off the edge of a cliff

962
00:37:19,030 --> 00:37:17,599
somewhere

963
00:37:20,310 --> 00:37:19,040

culturally

964

00:37:23,270 --> 00:37:20,320

i would see us being able to do

965

00:37:25,270 --> 00:37:23,280

something like that ourselves

966

00:37:27,430 --> 00:37:25,280

it reminds me a little i've spoken about

967

00:37:29,109 --> 00:37:27,440

the sighting i had as a child where me

968

00:37:30,790 --> 00:37:29,119

and and four other people including my

969

00:37:33,190 --> 00:37:30,800

mum who has no interest in the ufo

970

00:37:35,430 --> 00:37:33,200

subject so pretty much a ferris wheel

971

00:37:38,069 --> 00:37:35,440

size object on its side not far off the

972

00:37:40,550 --> 00:37:38,079

ground spinning at an incredible speed

973

00:37:42,630 --> 00:37:40,560

it certainly wasn't a ferris wheel um

974

00:37:45,349 --> 00:37:42,640

but it was in a very built up area a lot

975

00:37:47,190 --> 00:37:45,359

of cars very highly populated and i

976
00:37:49,670 --> 00:37:47,200
wonder is it something in those

977
00:37:51,750 --> 00:37:49,680
experiences where certain people can see

978
00:37:53,430 --> 00:37:51,760
it at a certain time for for a

979
00:37:55,829 --> 00:37:53,440
particular reason and that's always

980
00:37:57,910 --> 00:37:55,839
stuck with me that maybe a group of us

981
00:37:59,910 --> 00:37:57,920
at a distance about a mile away could

982
00:38:01,190 --> 00:37:59,920
see this object but maybe people closer

983
00:38:02,950 --> 00:38:01,200
to it couldn't

984
00:38:04,710 --> 00:38:02,960
and it reminds me there's a youtube

985
00:38:06,870 --> 00:38:04,720
video and it's i had to google it but

986
00:38:09,109 --> 00:38:06,880
it's the selective attention test from

987
00:38:10,470 --> 00:38:09,119
simons and chabris where you're asked to

988
00:38:12,790 --> 00:38:10,480

count how many times a group of

989

00:38:14,790 --> 00:38:12,800

individuals pass a basketball between

990

00:38:16,790 --> 00:38:14,800

each other and you're so caught up in

991

00:38:18,710 --> 00:38:16,800

counting a lot of people don't notice

992

00:38:20,310 --> 00:38:18,720

that someone in a gorilla costume walks

993

00:38:21,990 --> 00:38:20,320

through the middle of the group

994

00:38:23,750 --> 00:38:22,000

and walks out a frame and it's only

995

00:38:25,750 --> 00:38:23,760

afterwards when you're told did anyone

996

00:38:28,310 --> 00:38:25,760

see the gorilla where two people in a

997

00:38:30,310 --> 00:38:28,320

group of ten say yes yet the gorilla was

998

00:38:31,990 --> 00:38:30,320

there just only

999

00:38:33,670 --> 00:38:32,000

so such a small percentage of the group

1000

00:38:36,310 --> 00:38:33,680

pay attention to see it

1001
00:38:39,030 --> 00:38:36,320
yeah i failed that test uh i remember

1002
00:38:40,870 --> 00:38:39,040
back and i i actually couldn't believe

1003
00:38:41,750 --> 00:38:40,880
i thought i was being tricked

1004
00:38:42,470 --> 00:38:41,760
um

1005
00:38:44,150 --> 00:38:42,480
so

1006
00:38:45,670 --> 00:38:44,160
uh

1007
00:38:47,750 --> 00:38:45,680
i think that that's

1008
00:38:49,750 --> 00:38:47,760
even without

1009
00:38:52,310 --> 00:38:49,760
any kind of paranormal

1010
00:38:57,829 --> 00:38:54,950
lots of people will look at something

1011
00:38:59,510 --> 00:38:57,839
and just it doesn't fit into their

1012
00:39:01,270 --> 00:38:59,520
context of what they're thinking about

1013
00:39:03,349 --> 00:39:01,280

today for instance and so they have

1014

00:39:05,349 --> 00:39:03,359

their mind on something else let's say

1015

00:39:07,589 --> 00:39:05,359

and so they see it and it just doesn't

1016

00:39:10,310 --> 00:39:07,599

matter and they they move on and then

1017

00:39:12,630 --> 00:39:10,320

there are you know i used the example

1018

00:39:14,550 --> 00:39:12,640

and this has been talked about a lot

1019

00:39:17,430 --> 00:39:14,560

of when the first of the

1020

00:39:20,870 --> 00:39:17,440

uh of you know the explorers

1021

00:39:21,750 --> 00:39:20,880

uh or conquerors showed up uh in the new

1022

00:39:25,030 --> 00:39:21,760

world

1023

00:39:27,190 --> 00:39:25,040

and a lot of the indians uh and the

1024

00:39:28,710 --> 00:39:27,200

mayans or the incas or whoever at the

1025

00:39:30,950 --> 00:39:28,720

time

1026

00:39:32,790 --> 00:39:30,960

didn't recognize the ships for what they

1027

00:39:35,510 --> 00:39:32,800

were

1028

00:39:37,510 --> 00:39:35,520

they saw these objects and then they but

1029

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

they didn't realize that their world was

1030

00:39:41,510 --> 00:39:39,520

about to change and they just went about

1031

00:39:43,510 --> 00:39:41,520

their their until somebody came off

1032

00:39:45,990 --> 00:39:43,520

those ships and and

1033

00:39:48,950 --> 00:39:46,000

walked up and said by the way we we

1034

00:39:49,829 --> 00:39:48,960

claim you for the queen

1035

00:39:51,589 --> 00:39:49,839

right

1036

00:39:53,589 --> 00:39:51,599

so um

1037

00:39:55,910 --> 00:39:53,599

i i think that there's a quite a bit of

1038

00:39:58,710 --> 00:39:55,920

that going on now if you're talking

1039

00:39:59,990 --> 00:39:58,720

about tele-factored information

1040

00:40:01,190 --> 00:40:00,000

you could either it could either be

1041

00:40:03,190 --> 00:40:01,200

directed

1042

00:40:06,309 --> 00:40:03,200

or it could be broadcast

1043

00:40:07,589 --> 00:40:06,319

and if you don't have the right receiver

1044

00:40:10,230 --> 00:40:07,599

then you're just not going to see it and

1045

00:40:11,270 --> 00:40:10,240

if you're not at the right level of you

1046

00:40:12,710 --> 00:40:11,280

know the

1047

00:40:15,430 --> 00:40:12,720

this is something different that i

1048

00:40:19,030 --> 00:40:15,440

should pay attention to

1049

00:40:21,349 --> 00:40:19,040

uh then you'll just go about your day

1050

00:40:24,470 --> 00:40:21,359

right and so in a in a way it's a in a

1051
00:40:25,670 --> 00:40:24,480
way it's a test or it's a screen or it's

1052
00:40:27,270 --> 00:40:25,680
a filter

1053
00:40:29,670 --> 00:40:27,280
for those who can see it for what it is

1054
00:40:31,990 --> 00:40:29,680
and realize what it is and

1055
00:40:33,829 --> 00:40:32,000
jumping back to jacques control

1056
00:40:36,829 --> 00:40:33,839
hypothesis

1057
00:40:39,589 --> 00:40:36,839
it will control those who are capable of

1058
00:40:40,790 --> 00:40:39,599
seeing now whether i'm not saying seeing

1059
00:40:42,470 --> 00:40:40,800
is a good thing

1060
00:40:44,230 --> 00:40:42,480
right it doesn't mean that you're better

1061
00:40:46,790 --> 00:40:44,240
it just means

1062
00:40:48,470 --> 00:40:46,800
you're seeing it

1063
00:40:50,150 --> 00:40:48,480

of course one of those

1064

00:40:52,309 --> 00:40:50,160

one of those famous events that you've

1065

00:40:54,390 --> 00:40:52,319

talked about is the aerial school event

1066

00:40:56,950 --> 00:40:54,400

which happened in the mid-90s in

1067

00:40:58,550 --> 00:40:56,960

zimbabwe and as we record this we're

1068

00:41:00,630 --> 00:40:58,560

about a week away from the release of

1069

00:41:02,390 --> 00:41:00,640

the aerial skill phenomenon documentary

1070

00:41:04,870 --> 00:41:02,400

which i've been fortunate to see a copy

1071

00:41:07,109 --> 00:41:04,880

of and it's very very good very thorough

1072

00:41:09,670 --> 00:41:07,119

and it follows the the story of those

1073

00:41:12,150 --> 00:41:09,680

children into their adulthood as well

1074

00:41:15,270 --> 00:41:12,160

and many of those children grew up to

1075

00:41:17,270 --> 00:41:15,280

have very um be very altruistic after

1076
00:41:19,670 --> 00:41:17,280
those experiences and they go into

1077
00:41:21,750 --> 00:41:19,680
careers that reflect this as has that

1078
00:41:24,550 --> 00:41:21,760
held true in your experience and with

1079
00:41:25,990 --> 00:41:24,560
the people you've spoken to as well

1080
00:41:29,030 --> 00:41:26,000
well i

1081
00:41:31,109 --> 00:41:29,040
was fascinated when i first saw that uh

1082
00:41:32,550 --> 00:41:31,119
video the some of the earlier ones that

1083
00:41:36,069 --> 00:41:32,560
were on youtube

1084
00:41:37,510 --> 00:41:36,079
you know back as far as 2010 2011 and it

1085
00:41:40,309 --> 00:41:37,520
always struck me

1086
00:41:41,349 --> 00:41:40,319
as probably the most impressive

1087
00:41:42,790 --> 00:41:41,359
uh

1088
00:41:44,950 --> 00:41:42,800

proof

1089

00:41:48,150 --> 00:41:44,960

that something was happening right that

1090

00:41:49,589 --> 00:41:48,160

you couldn't have that many children

1091

00:41:51,750 --> 00:41:49,599

seeing and talking about the same thing

1092

00:41:53,829 --> 00:41:51,760

and some people go oh rubbish gary of

1093

00:41:55,589 --> 00:41:53,839

course they can i said no rubbish you

1094

00:41:57,270 --> 00:41:55,599

shut up you're wrong

1095

00:41:59,030 --> 00:41:57,280

right stop

1096

00:42:01,109 --> 00:41:59,040

gaslighting me

1097

00:42:02,550 --> 00:42:01,119

it's you can't get that many people

1098

00:42:05,670 --> 00:42:02,560

saying the same thing especially

1099

00:42:09,109 --> 00:42:05,680

children and then still holdings now to

1100

00:42:10,069 --> 00:42:09,119

that story you know 20 30 years later

1101

00:42:12,390 --> 00:42:10,079

so

1102

00:42:13,670 --> 00:42:12,400

um they mostly seem to have seen the

1103

00:42:15,430 --> 00:42:13,680

same thing

1104

00:42:17,589 --> 00:42:15,440

right and the the difference differences

1105

00:42:20,230 --> 00:42:17,599

only seem to be down to the level of the

1106

00:42:21,750 --> 00:42:20,240

artistic ability of the individual

1107

00:42:23,430 --> 00:42:21,760

student to draw what it is that they

1108

00:42:25,510 --> 00:42:23,440

thought that they saw

1109

00:42:27,430 --> 00:42:25,520

but like um

1110

00:42:29,349 --> 00:42:27,440

i think a lot of if you follow any of

1111

00:42:30,470 --> 00:42:29,359

the remote viewing literature

1112

00:42:36,069 --> 00:42:30,480

the

1113

00:42:37,910 --> 00:42:36,079

capability is to

1114

00:42:39,910 --> 00:42:37,920

read the signal

1115

00:42:41,430 --> 00:42:39,920

not the interpretation

1116

00:42:44,550 --> 00:42:41,440

right that once you start getting into

1117

00:42:46,470 --> 00:42:44,560

interpretation that's where your

1118

00:42:48,550 --> 00:42:46,480

cultural background

1119

00:42:50,390 --> 00:42:48,560

and what's going on inside your head

1120

00:42:53,430 --> 00:42:50,400

starts to adjust

1121

00:42:54,630 --> 00:42:53,440

what it is you think you saw

1122

00:42:57,750 --> 00:42:54,640

and so there might be a little bit of

1123

00:43:00,069 --> 00:42:57,760

that going on with these children but

1124

00:43:03,430 --> 00:43:00,079

irrespective of that

1125

00:43:04,710 --> 00:43:03,440

the the central story of what they saw

1126
00:43:05,990 --> 00:43:04,720
appears to be

1127
00:43:07,750 --> 00:43:06,000
well at the very least a shared

1128
00:43:09,910 --> 00:43:07,760
experience

1129
00:43:13,349 --> 00:43:09,920
um you know there's no

1130
00:43:14,470 --> 00:43:13,359
but the there's no material evidence

1131
00:43:16,069 --> 00:43:14,480
but

1132
00:43:22,309 --> 00:43:16,079
the s

1133
00:43:23,910 --> 00:43:22,319
is as you mentioned 100 clear

1134
00:43:25,030 --> 00:43:23,920
these kids were affected for their whole

1135
00:43:27,990 --> 00:43:25,040
lives

1136
00:43:29,829 --> 00:43:28,000
um it apparently changed them

1137
00:43:31,349 --> 00:43:29,839
at least as far as they're concerned for

1138
00:43:34,150 --> 00:43:31,359

the better

1139

00:43:35,670 --> 00:43:34,160

i i don't know if any of the i haven't

1140

00:43:37,270 --> 00:43:35,680

seen the movie so i'm jealous that

1141

00:43:39,109 --> 00:43:37,280

you've seen it already

1142

00:43:42,309 --> 00:43:39,119

um

1143

00:43:44,550 --> 00:43:42,319

you know i haven't heard of any negative

1144

00:43:45,270 --> 00:43:44,560

consequences other than let's say that

1145

00:43:53,109 --> 00:43:45,280

the

1146

00:43:56,150 --> 00:43:53,119

um

1147

00:43:59,190 --> 00:43:56,160

negatives

1148

00:44:00,150 --> 00:43:59,200

uh so i'm trying to understand

1149

00:44:01,030 --> 00:44:00,160

uh

1150

00:44:10,630 --> 00:44:01,040

the

1151
00:44:12,950 --> 00:44:10,640
said listen don't listen to anything

1152
00:44:14,870 --> 00:44:12,960
else just go watch that movie and tell

1153
00:44:17,030 --> 00:44:14,880
me what you think

1154
00:44:19,829 --> 00:44:17,040
and you know a lot of people came back

1155
00:44:21,990 --> 00:44:19,839
saying wow you know this is seriously

1156
00:44:24,150 --> 00:44:22,000
interesting

1157
00:44:26,870 --> 00:44:24,160
there's an innocence to those children

1158
00:44:28,309 --> 00:44:26,880
and their stories and when john mack got

1159
00:44:29,910 --> 00:44:28,319
involved and this is something that's

1160
00:44:31,990 --> 00:44:29,920
that comes out in a documentary no

1161
00:44:33,829 --> 00:44:32,000
spoilers but he really moves on the

1162
00:44:35,190 --> 00:44:33,839
story and gets the emotion and the

1163
00:44:37,430 --> 00:44:35,200

feeling from the children which is

1164

00:44:40,390 --> 00:44:37,440

fascinating to see come across on the

1165

00:44:42,150 --> 00:44:40,400

camera as well and something that that

1166

00:44:43,589 --> 00:44:42,160

doesn't happen to those children but has

1167

00:44:46,069 --> 00:44:43,599

happened to others and has been well

1168

00:44:48,309 --> 00:44:46,079

documented as the the potential of a

1169

00:44:50,630 --> 00:44:48,319

hitchhiker effect we've heard this from

1170

00:44:53,510 --> 00:44:50,640

places such as skinwalker ranch that

1171

00:44:55,430 --> 00:44:53,520

there's a potential for a strangeness to

1172

00:44:57,510 --> 00:44:55,440

follow individuals

1173

00:44:58,870 --> 00:44:57,520

from the the place that occurs

1174

00:45:01,109 --> 00:44:58,880

and moves on

1175

00:45:03,670 --> 00:45:01,119

and i wonder do you consider

1176

00:45:05,670 --> 00:45:03,680

this to almost be a virus type of effect

1177

00:45:07,109 --> 00:45:05,680

from the work you've seen or anything

1178

00:45:09,750 --> 00:45:07,119

that's been done on it

1179

00:45:12,870 --> 00:45:09,760

we'll see hitchhiker implies something

1180

00:45:15,270 --> 00:45:12,880

has attached to you

1181

00:45:17,589 --> 00:45:15,280

but maybe a different way of talking

1182

00:45:19,829 --> 00:45:17,599

about it is

1183

00:45:22,069 --> 00:45:19,839

that you're now open

1184

00:45:23,510 --> 00:45:22,079

to observing things that you couldn't

1185

00:45:25,589 --> 00:45:23,520

see before

1186

00:45:27,589 --> 00:45:25,599

but that there's a

1187

00:45:30,470 --> 00:45:27,599

dialectic right there's a discussion

1188

00:45:33,030 --> 00:45:30,480

that you seeing

1189

00:45:33,829 --> 00:45:33,040

leads to a feedback

1190

00:45:36,950 --> 00:45:33,839

that

1191

00:45:38,470 --> 00:45:36,960

it knows it's been seen and so you

1192

00:45:41,349 --> 00:45:38,480

see it more

1193

00:45:42,309 --> 00:45:41,359

right i used the term lighthouses in the

1194

00:45:43,190 --> 00:45:42,319

dark

1195

00:45:46,950 --> 00:45:43,200

uh

1196

00:45:50,470 --> 00:45:46,960

phenomenon that some people seem to be

1197

00:45:52,790 --> 00:45:50,480

lighthouses in the dark almost as if

1198

00:45:54,630 --> 00:45:52,800

the ability to see

1199

00:45:57,430 --> 00:45:54,640

is

1200

00:45:59,510 --> 00:45:57,440

observable from elsewhere

1201
00:46:03,430 --> 00:45:59,520
and so it gets attracted to you but once

1202
00:46:06,069 --> 00:46:03,440
you've opened you've lit the lighthouse

1203
00:46:07,510 --> 00:46:06,079
and so hitchhiker implies a negative

1204
00:46:09,750 --> 00:46:07,520
kind of thing something sitting on your

1205
00:46:11,030 --> 00:46:09,760
shoulder as opposed to

1206
00:46:12,950 --> 00:46:11,040
you're open

1207
00:46:15,589 --> 00:46:12,960
to seeing it and so therefore it's

1208
00:46:17,270 --> 00:46:15,599
willing you know it wants to talk so it

1209
00:46:20,230 --> 00:46:17,280
it hangs around

1210
00:46:21,750 --> 00:46:20,240
you know but many of the

1211
00:46:24,150 --> 00:46:21,760
i mean you have both positive and

1212
00:46:26,630 --> 00:46:24,160
negative stories of hitchhikers i have a

1213
00:46:29,109 --> 00:46:26,640

a good friend in the military and it was

1214

00:46:32,790 --> 00:46:29,119

i i would say largely a negative uh

1215

00:46:33,990 --> 00:46:32,800

hitchhiker effect to him and his family

1216

00:46:36,309 --> 00:46:34,000

um

1217

00:46:38,150 --> 00:46:36,319

i i know of a couple of positive

1218

00:46:40,309 --> 00:46:38,160

hitchhiker effects

1219

00:46:42,710 --> 00:46:40,319

as well

1220

00:46:45,190 --> 00:46:42,720

as their potential those those positives

1221

00:46:47,510 --> 00:46:45,200

and negatives are how those individuals

1222

00:46:49,750 --> 00:46:47,520

construe what's happening and

1223

00:46:52,069 --> 00:46:49,760

potentially whatever is causing these

1224

00:46:53,910 --> 00:46:52,079

effects isn't necessarily looking at

1225

00:46:56,230 --> 00:46:53,920

those those consequences of their

1226

00:46:58,470 --> 00:46:56,240

actions as being positive or negative

1227

00:47:00,309 --> 00:46:58,480

and just a way to communicate

1228

00:47:02,470 --> 00:47:00,319

yeah you know i mean

1229

00:47:03,670 --> 00:47:02,480

if you've listened to any of colm

1230

00:47:06,309 --> 00:47:03,680

kelleher's

1231

00:47:09,190 --> 00:47:06,319

uh interviews um

1232

00:47:12,309 --> 00:47:09,200

he has i always accuse him of being a

1233

00:47:16,390 --> 00:47:12,319

it's a particularly dark irish view

1234

00:47:18,710 --> 00:47:16,400

of of things um but i i can't disagree

1235

00:47:21,030 --> 00:47:18,720

with him that it it it gives you back

1236

00:47:22,470 --> 00:47:21,040

what you put into it it's a feedback

1237

00:47:23,430 --> 00:47:22,480

system

1238

00:47:25,349 --> 00:47:23,440

um

1239

00:47:27,349 --> 00:47:25,359

you know there's this notion of uh

1240

00:47:28,390 --> 00:47:27,359

synchronicities and intent

1241

00:47:30,710 --> 00:47:28,400

and

1242

00:47:32,790 --> 00:47:30,720

synchronicities happen

1243

00:47:35,430 --> 00:47:32,800

almost when you want them to

1244

00:47:36,950 --> 00:47:35,440

it's almost as if now you're talking

1245

00:47:39,349 --> 00:47:36,960

to

1246

00:47:41,430 --> 00:47:39,359

the phenomenon and it's giving you back

1247

00:47:43,829 --> 00:47:41,440

what you want

1248

00:47:44,950 --> 00:47:43,839

right you basically create the world in

1249

00:47:48,950 --> 00:47:44,960

front of you

1250

00:47:50,950 --> 00:47:48,960

by intending it um you know i

1251

00:47:52,950 --> 00:47:50,960

i've not seen any proof of that but it's

1252

00:47:54,630 --> 00:47:52,960

a fascinating concept

1253

00:47:57,990 --> 00:47:54,640

i mean i have plenty of synchronicities

1254

00:48:00,309 --> 00:47:58,000

that are bizarre that happen in my life

1255

00:48:01,589 --> 00:48:00,319

but um

1256

00:48:03,990 --> 00:48:01,599

whether that's

1257

00:48:07,030 --> 00:48:04,000

some outside agency purposefully

1258

00:48:09,109 --> 00:48:07,040

listening to my desires and creating

1259

00:48:10,710 --> 00:48:09,119

that for me or whether there's something

1260

00:48:12,309 --> 00:48:10,720

more fundamental to the structure of the

1261

00:48:13,510 --> 00:48:12,319

universe that allows for these kinds of

1262

00:48:14,790 --> 00:48:13,520

things to occur

1263

00:48:16,309 --> 00:48:14,800

is an open

1264

00:48:18,069 --> 00:48:16,319

question

1265

00:48:19,990 --> 00:48:18,079

those synchronicities can certainly

1266

00:48:21,349 --> 00:48:20,000

range for different people and they can

1267

00:48:23,190 --> 00:48:21,359

be very strange when they happen but i

1268

00:48:24,710 --> 00:48:23,200

do wonder is it because i'm thinking

1269

00:48:27,829 --> 00:48:24,720

about a certain abba song and it comes

1270

00:48:29,430 --> 00:48:27,839

on the radio seconds after that some

1271

00:48:31,589 --> 00:48:29,440

non-human intelligence has allowed that

1272

00:48:33,510 --> 00:48:31,599

to happen or is it just you know pure

1273

00:48:34,950 --> 00:48:33,520

coincidence but something that people

1274

00:48:36,790 --> 00:48:34,960

have got in touch with me recently about

1275

00:48:38,950 --> 00:48:36,800

is different synchronicities and it's

1276

00:48:41,030 --> 00:48:38,960

always fascinating to hear about

1277

00:48:43,109 --> 00:48:41,040

moving on and skipping a whole lot of

1278

00:48:44,630 --> 00:48:43,119

stuff gary just due to time constraints

1279

00:48:46,950 --> 00:48:44,640

um you've recently published a

1280

00:48:49,109 --> 00:48:46,960

peer-reviewed paper on studying

1281

00:48:50,470 --> 00:48:49,119

materials found at crash sites can you

1282

00:48:52,150 --> 00:48:50,480

tell us a little bit about what you

1283

00:48:55,030 --> 00:48:52,160

found

1284

00:48:57,829 --> 00:48:55,040

sure um well the objective of the paper

1285

00:49:01,109 --> 00:48:57,839

up front was to work on

1286

00:49:04,270 --> 00:49:01,119

uh a sample at least one sample

1287

00:49:07,829 --> 00:49:04,280

that was in in many ways

1288

00:49:10,230 --> 00:49:07,839

non-controversial in so far as the the

1289

00:49:12,630 --> 00:49:10,240

number of witnesses that had seen it

1290

00:49:13,750 --> 00:49:12,640

right so you had multiple witnesses

1291

00:49:15,990 --> 00:49:13,760

uh

1292

00:49:17,190 --> 00:49:16,000

on site immediately you had a chain of

1293

00:49:19,829 --> 00:49:17,200

custody

1294

00:49:22,470 --> 00:49:19,839

that you could list that

1295

00:49:26,549 --> 00:49:22,480

basically made sure that the

1296

00:49:28,870 --> 00:49:26,559

object was not hoaxed in some way

1297

00:49:31,510 --> 00:49:28,880

and

1298

00:49:33,829 --> 00:49:31,520

this one was the council bluffs

1299

00:49:35,670 --> 00:49:33,839

episode and this is one that jacques

1300

00:49:36,870 --> 00:49:35,680

valet had been involved with for a long

1301
00:49:40,069 --> 00:49:36,880
time

1302
00:49:42,390 --> 00:49:40,079
uh and an object was seen above the city

1303
00:49:45,270 --> 00:49:42,400
of council bluffs iowa

1304
00:49:47,430 --> 00:49:45,280
uh it was a one of these typical kind of

1305
00:49:50,230 --> 00:49:47,440
things with the light flashing around

1306
00:49:51,109 --> 00:49:50,240
and then it just some objects dropped

1307
00:49:53,270 --> 00:49:51,119
from it

1308
00:49:56,390 --> 00:49:53,280
glowing object at night

1309
00:50:00,309 --> 00:49:56,400
um and the witnesses showed up 30-ish

1310
00:50:01,750 --> 00:50:00,319
pounds of molten metal on the dirt

1311
00:50:05,109 --> 00:50:01,760
next to a levee

1312
00:50:07,270 --> 00:50:05,119
near water uh zero chance that it you

1313
00:50:08,470 --> 00:50:07,280

know hat was

1314

00:50:10,790 --> 00:50:08,480

hoaxed or

1315

00:50:13,750 --> 00:50:10,800

dropped there by some industrial process

1316

00:50:16,069 --> 00:50:13,760

of humans all of this stuff had been

1317

00:50:17,430 --> 00:50:16,079

pre-vetted long before i came to the

1318

00:50:18,470 --> 00:50:17,440

scene

1319

00:50:20,150 --> 00:50:18,480

um

1320

00:50:22,230 --> 00:50:20,160

and i

1321

00:50:24,390 --> 00:50:22,240

just brought the tools that are

1322

00:50:28,309 --> 00:50:24,400

available in my laboratory

1323

00:50:31,349 --> 00:50:28,319

uh for materials analysis metal analysis

1324

00:50:33,670 --> 00:50:31,359

uh to the to the table uh and we did a

1325

00:50:35,430 --> 00:50:33,680

very simple metallurgical analysis i

1326

00:50:37,270 --> 00:50:35,440

mean a lot more that could be done with

1327

00:50:40,150 --> 00:50:37,280

it especially these days

1328

00:50:43,750 --> 00:50:40,160

um we didn't find anything remarkable in

1329

00:50:46,790 --> 00:50:43,760

it in terms of the isotopes but

1330

00:50:49,430 --> 00:50:46,800

what was if anything remarkable

1331

00:50:52,230 --> 00:50:49,440

was that depending on where you looked

1332

00:50:55,430 --> 00:50:52,240

in the sample that i had

1333

00:50:57,670 --> 00:50:55,440

the metals that were there

1334

00:51:00,870 --> 00:50:57,680

were of different ratios

1335

00:51:04,150 --> 00:51:00,880

so it was incompletely mixed

1336

00:51:07,270 --> 00:51:04,160

so whatever it came from

1337

00:51:09,750 --> 00:51:07,280

had multiple inputs of different metals

1338

00:51:11,030 --> 00:51:09,760

like you know magnesium and iron and

1339

00:51:13,270 --> 00:51:11,040

titanium

1340

00:51:14,309 --> 00:51:13,280

but it hadn't been you know mixed in a

1341

00:51:16,630 --> 00:51:14,319

blender

1342

00:51:17,990 --> 00:51:16,640

already it was only partially mixed and

1343

00:51:20,069 --> 00:51:18,000

then

1344

00:51:22,470 --> 00:51:20,079

dropped so

1345

00:51:24,230 --> 00:51:22,480

that's interesting because you can go to

1346

00:51:27,190 --> 00:51:24,240

most smelting

1347

00:51:29,589 --> 00:51:27,200

uh companies that are making ironer

1348

00:51:30,710 --> 00:51:29,599

things and you know

1349

00:51:32,309 --> 00:51:30,720

either

1350

00:51:34,069 --> 00:51:32,319

what you found on one piece of an iron

1351
00:51:36,470 --> 00:51:34,079
versus another is going to be is going

1352
00:51:38,150 --> 00:51:36,480
to be the same because if it's not it's

1353
00:51:39,990 --> 00:51:38,160
going to have different

1354
00:51:42,069 --> 00:51:40,000
tension and torsional

1355
00:51:43,829 --> 00:51:42,079
properties when you mold it into

1356
00:51:45,750 --> 00:51:43,839
whatever it is you're molding right and

1357
00:51:46,549 --> 00:51:45,760
so it will have fracture

1358
00:51:48,470 --> 00:51:46,559
uh

1359
00:51:49,510 --> 00:51:48,480
you know in one place more likely than

1360
00:51:50,710 --> 00:51:49,520
another

1361
00:51:52,069 --> 00:51:50,720
so

1362
00:51:54,630 --> 00:51:52,079
that was interesting

1363
00:51:57,430 --> 00:51:54,640

um but then also the the combination of

1364

00:51:59,750 --> 00:51:57,440

metals that were in it were

1365

00:52:02,230 --> 00:51:59,760

again not something which is used in any

1366

00:52:04,470 --> 00:52:02,240

normal industrial process

1367

00:52:05,750 --> 00:52:04,480

doesn't i mean it all it means is we

1368

00:52:07,829 --> 00:52:05,760

don't know

1369

00:52:09,829 --> 00:52:07,839

right that that's kind of the limit of

1370

00:52:12,309 --> 00:52:09,839

what you can say

1371

00:52:14,790 --> 00:52:12,319

but the the purpose of

1372

00:52:16,790 --> 00:52:14,800

putting this one paper out

1373

00:52:20,150 --> 00:52:16,800

wasn't so much to say here's something

1374

00:52:22,870 --> 00:52:20,160

remarkable but it was to say here's how

1375

00:52:25,190 --> 00:52:22,880

you publish a paper like this

1376
00:52:26,630 --> 00:52:25,200
here's how you don't jump to conclusions

1377
00:52:29,430 --> 00:52:26,640
as to what it means

1378
00:52:30,829 --> 00:52:29,440
here's how you just say

1379
00:52:33,990 --> 00:52:30,839
i have the

1380
00:52:36,230 --> 00:52:34,000
data you can believe the data

1381
00:52:38,710 --> 00:52:36,240
come up with a conclusion yourself if

1382
00:52:39,670 --> 00:52:38,720
you think you have the answer it's a

1383
00:52:41,990 --> 00:52:39,680
puzzle

1384
00:52:44,630 --> 00:52:42,000
waiting to be solved

1385
00:52:46,950 --> 00:52:44,640
uh and so but it was also to show that

1386
00:52:47,750 --> 00:52:46,960
you can do it

1387
00:52:49,270 --> 00:52:47,760
and

1388
00:52:51,910 --> 00:52:49,280

publish these kinds of things get them

1389

00:52:55,270 --> 00:52:51,920

through peer review and not be ridiculed

1390

00:52:57,829 --> 00:52:55,280

for it as long as you strip stick to

1391

00:53:00,630 --> 00:52:57,839

certain scientific strictures

1392

00:53:02,069 --> 00:53:00,640

about how you do it

1393

00:53:04,230 --> 00:53:02,079

you have to become you have to be

1394

00:53:05,910 --> 00:53:04,240

bulletproof i mean mentally you have to

1395

00:53:08,549 --> 00:53:05,920

become bulletproof and because i still

1396

00:53:10,870 --> 00:53:08,559

have plenty of my colleagues who you

1397

00:53:12,150 --> 00:53:10,880

know twitter about it you know you know

1398

00:53:14,549 --> 00:53:12,160

but then

1399

00:53:18,150 --> 00:53:14,559

interestingly more and more

1400

00:53:18,950 --> 00:53:18,160

i was uh i was just in um

1401

00:53:25,109 --> 00:53:18,960

in

1402

00:53:27,109 --> 00:53:25,119

came up to me and said gary i've been

1403

00:53:30,069 --> 00:53:27,119

reading about your involvement in all of

1404

00:53:32,390 --> 00:53:30,079

this that's really cool

1405

00:53:33,910 --> 00:53:32,400

right that's totally cool and

1406

00:53:35,589 --> 00:53:33,920

why is it cool

1407

00:53:38,230 --> 00:53:35,599

because the next thing out of their

1408

00:53:40,069 --> 00:53:38,240

mouths is yeah i saw this all this stuff

1409

00:53:41,910 --> 00:53:40,079

in the new york times about these pilots

1410

00:53:44,230 --> 00:53:41,920

who've seen things and these

1411

00:53:45,510 --> 00:53:44,240

congressional inquiries that are about

1412

00:53:47,910 --> 00:53:45,520

to happen

1413

00:53:49,430 --> 00:53:47,920

wow you're you know you really seem to

1414

00:53:51,430 --> 00:53:49,440

be on to something

1415

00:53:53,270 --> 00:53:51,440

you know part of me is like well yeah i

1416

00:53:56,870 --> 00:53:53,280

told you so

1417

00:53:58,630 --> 00:53:56,880

but um you know i try to back off from

1418

00:54:00,790 --> 00:53:58,640

self congratulation

1419

00:54:04,150 --> 00:54:00,800

on that but uh

1420

00:54:06,790 --> 00:54:04,160

and so you it's it's a i think lou

1421

00:54:08,230 --> 00:54:06,800

elizondo and chris mellon and a number

1422

00:54:11,109 --> 00:54:08,240

of others behind the scenes who you'll

1423

00:54:13,910 --> 00:54:11,119

probably never get the names of uh who

1424

00:54:16,630 --> 00:54:13,920

have been pushing this forward

1425

00:54:17,990 --> 00:54:16,640

that have opened it up for us in a way

1426

00:54:21,030 --> 00:54:18,000

that

1427

00:54:23,270 --> 00:54:21,040

uh is to me exciting yes there's a lot

1428

00:54:25,750 --> 00:54:23,280

of negative people out there you know

1429

00:54:28,549 --> 00:54:25,760

saying you know oh you guys are a bunch

1430

00:54:31,510 --> 00:54:28,559

of you know it's it's

1431

00:54:33,829 --> 00:54:31,520

faleo do uh you're all a bunch of morons

1432

00:54:37,589 --> 00:54:33,839

this is a waste of time well

1433

00:54:39,910 --> 00:54:37,599

it's my time why does it offend you

1434

00:54:41,750 --> 00:54:39,920

that i'm spending my time on something

1435

00:54:43,030 --> 00:54:41,760

i'm not telling you not to do something

1436

00:54:45,190 --> 00:54:43,040

maybe i should be offended that you're

1437

00:54:48,470 --> 00:54:45,200

spending your time worrying about me

1438

00:54:50,630 --> 00:54:48,480

i'm living rent-free in your head

1439

00:54:53,430 --> 00:54:50,640

you know i mean i i it's just like why

1440

00:54:55,829 --> 00:54:53,440

do you care do it's like it's like they

1441

00:54:57,430 --> 00:54:55,839

have this religious

1442

00:54:59,829 --> 00:54:57,440

box that they want everybody to live

1443

00:55:03,109 --> 00:54:59,839

within and if you step outside of it you

1444

00:55:06,630 --> 00:55:03,119

shall be you're a heretic how dare you

1445

00:55:08,309 --> 00:55:06,640

go away leave me alone do you know gary

1446

00:55:10,069 --> 00:55:08,319

when you talk about people living rent

1447

00:55:11,589 --> 00:55:10,079

free in your head it's funny i have no

1448

00:55:13,349 --> 00:55:11,599

issue with trolls and all that kind of

1449

00:55:15,270 --> 00:55:13,359

stuff i find it quite

1450

00:55:18,069 --> 00:55:15,280

cathartic and almost a hobby to engage

1451

00:55:19,910 --> 00:55:18,079

with them for a while um and we had one

1452

00:55:21,990 --> 00:55:19,920

particular troll on some of the youtube

1453

00:55:23,430 --> 00:55:22,000

live chats who i engaged with and

1454

00:55:25,430 --> 00:55:23,440

eventually they actually emailed me

1455

00:55:26,950 --> 00:55:25,440

privately to say they were sorry for

1456

00:55:29,430 --> 00:55:26,960

trolling so much but the whole idea of

1457

00:55:31,270 --> 00:55:29,440

this ufo phenomenon scares them

1458

00:55:32,789 --> 00:55:31,280

and i was like well that's fine just

1459

00:55:35,190 --> 00:55:32,799

talk about it and but the way it was

1460

00:55:36,630 --> 00:55:35,200

manifesting was to sit on chats of

1461

00:55:39,990 --> 00:55:36,640

various interviews with people like

1462

00:55:42,069 --> 00:55:40,000

yourself and slate the subject

1463

00:55:43,430 --> 00:55:42,079

but actually they did have an interest

1464

00:55:45,589 --> 00:55:43,440

but they just don't know how to express

1465

00:55:46,870 --> 00:55:45,599

that which i found quite interesting

1466

00:55:49,750 --> 00:55:46,880

people just have to take that kind of

1467

00:55:51,589 --> 00:55:49,760

step back got it yeah i don't mind those

1468

00:55:52,950 --> 00:55:51,599

kinds of people it's the professional

1469

00:55:54,630 --> 00:55:52,960

trolls

1470

00:55:57,030 --> 00:55:54,640

that um

1471

00:55:58,950 --> 00:55:57,040

that bother me uh i mean it doesn't

1472

00:56:03,910 --> 00:55:58,960

bother me it's like but why

1473

00:56:05,109 --> 00:56:03,920

why are you bothered yeah um it uh it's

1474

00:56:07,670 --> 00:56:05,119

it just seems

1475

00:56:09,109 --> 00:56:07,680

like they've got nothing better to do

1476

00:56:11,190 --> 00:56:09,119

that they feed

1477

00:56:13,430 --> 00:56:11,200

on this negativity

1478

00:56:14,870 --> 00:56:13,440

uh and to me it's like look dude you

1479

00:56:17,990 --> 00:56:14,880

need to you need to go see a

1480

00:56:22,710 --> 00:56:20,710

well listen gary next week on the 17th

1481

00:56:24,870 --> 00:56:22,720

of may i think it'll be the day after

1482

00:56:26,390 --> 00:56:24,880

this interview is released congress is

1483

00:56:28,549 --> 00:56:26,400

conducting hearings regarding

1484

00:56:30,630 --> 00:56:28,559

unidentified aerial phenomenon what

1485

00:56:33,270 --> 00:56:30,640

would you personally like to hear asked

1486

00:56:35,670 --> 00:56:33,280

at those hearings

1487

00:56:38,069 --> 00:56:35,680

i would like to hear

1488

00:56:40,630 --> 00:56:38,079

um about something actually that chris

1489

00:56:42,470 --> 00:56:40,640

mellon just tweeted uh

1490

00:56:45,030 --> 00:56:42,480

i'm actually in a another conversation

1491

00:56:47,270 --> 00:56:45,040

with him right now on another channel

1492

00:56:49,990 --> 00:56:47,280

i'm watching some conversations go on

1493

00:56:51,910 --> 00:56:50,000

um is

1494

00:56:54,470 --> 00:56:51,920

what's the evidence of

1495

00:56:55,510 --> 00:56:54,480

any of this stuff in orbit right we have

1496

00:56:57,670 --> 00:56:55,520

lots of

1497

00:56:59,030 --> 00:56:57,680

sensors up there

1498

00:57:00,549 --> 00:56:59,040

so that's one of the things that should

1499

00:57:02,470 --> 00:57:00,559

be discussed

1500

00:57:05,270 --> 00:57:02,480

um

1501
00:57:07,670 --> 00:57:05,280
what might be a potential agenda of

1502
00:57:09,349 --> 00:57:07,680
these objects right so i mean that's a

1503
00:57:11,030 --> 00:57:09,359
scary thing to start talking about but

1504
00:57:12,950 --> 00:57:11,040
if they're hanging around

1505
00:57:15,910 --> 00:57:12,960
mostly being seen at our nuclear

1506
00:57:16,870 --> 00:57:15,920
facilities that implies

1507
00:57:19,670 --> 00:57:16,880
something

1508
00:57:21,109 --> 00:57:19,680
a little on the let's say the scarier

1509
00:57:23,030 --> 00:57:21,119
side

1510
00:57:26,549 --> 00:57:23,040
um there was another thing that i was

1511
00:57:28,390 --> 00:57:26,559
thinking there that is uh

1512
00:57:30,390 --> 00:57:28,400
oh well it'll come to me but those are

1513
00:57:32,549 --> 00:57:30,400

those are two of the main ones that that

1514

00:57:33,829 --> 00:57:32,559

i want to hear about

1515

00:57:34,950 --> 00:57:33,839

um

1516

00:57:36,789 --> 00:57:34,960

and

1517

00:57:38,789 --> 00:57:36,799

but i also want

1518

00:57:41,030 --> 00:57:38,799

to have at some point a discussion

1519

00:57:43,270 --> 00:57:41,040

around

1520

00:57:45,829 --> 00:57:43,280

what are the opportunities

1521

00:57:48,390 --> 00:57:45,839

you know let's say that whatever this is

1522

00:57:50,470 --> 00:57:48,400

keeps continues to keeps us keep us at

1523

00:57:52,950 --> 00:57:50,480

arm's length

1524

00:57:54,549 --> 00:57:52,960

but has there ever been any attempt at

1525

00:57:57,030 --> 00:57:54,559

communication

1526

00:58:00,069 --> 00:57:57,040

with this and if so what has been the

1527

00:58:01,349 --> 00:58:00,079

interaction what has been the feedback

1528

00:58:03,750 --> 00:58:01,359

you know that's a that's another one and

1529

00:58:07,109 --> 00:58:03,760

then another thing that is i think

1530

00:58:09,670 --> 00:58:07,119

gathering a fair amount of uh

1531

00:58:12,549 --> 00:58:09,680

uh inertia

1532

00:58:16,150 --> 00:58:12,559

is this idea of um

1533

00:58:17,030 --> 00:58:16,160

immunity versus amnesty

1534

00:58:19,109 --> 00:58:17,040

um

1535

00:58:20,870 --> 00:58:19,119

that if we're going to get people to

1536

00:58:23,109 --> 00:58:20,880

come out of the shadows

1537

00:58:24,950 --> 00:58:23,119

there has to be immunity now a friend of

1538

00:58:27,910 --> 00:58:24,960

mine who i talk with a lot he says look

1539

00:58:29,190 --> 00:58:27,920

it can't be amnesty because amnesty is

1540

00:58:30,789 --> 00:58:29,200

you've already been convicted of

1541

00:58:33,829 --> 00:58:30,799

something

1542

00:58:35,990 --> 00:58:33,839

and then you're given amnesty for it no

1543

00:58:37,270 --> 00:58:36,000

you want immunity

1544

00:58:39,030 --> 00:58:37,280

up front so we should stop using the

1545

00:58:41,510 --> 00:58:39,040

word amnesty we should start using the

1546

00:58:44,549 --> 00:58:41,520

word immunity because immunity means

1547

00:58:46,870 --> 00:58:44,559

that you won't be prosecuted

1548

00:58:49,750 --> 00:58:46,880

right but it needs to be a carrot and a

1549

00:58:52,150 --> 00:58:49,760

stick approach right it's immunity if

1550

00:58:54,870 --> 00:58:52,160

you come forward now beyond a certain

1551

00:58:55,910 --> 00:58:54,880

date and if you don't

1552

00:58:58,390 --> 00:58:55,920

now you're going to be stuck in the

1553

00:59:01,750 --> 00:58:58,400

amnesty bucket after you've been

1554

00:59:04,630 --> 00:59:01,760

you know if if necessary uh

1555

00:59:06,230 --> 00:59:04,640

uh basically run through a ringer

1556

00:59:07,829 --> 00:59:06,240

but that's the only way we're going to

1557

00:59:09,349 --> 00:59:07,839

open things up so it has to be an open

1558

00:59:11,270 --> 00:59:09,359

discussion of that

1559

00:59:13,589 --> 00:59:11,280

i was talking to a congressman

1560

00:59:15,190 --> 00:59:13,599

uh just a couple of weeks ago about

1561

00:59:16,710 --> 00:59:15,200

exactly this issue

1562

00:59:20,230 --> 00:59:16,720

and um

1563

00:59:22,870 --> 00:59:20,240

his uh opinion is that that is

1564

00:59:24,630 --> 00:59:22,880

going to have to be done

1565

00:59:26,549 --> 00:59:24,640

gary you've been extremely generous with

1566

00:59:28,789 --> 00:59:26,559

your time i really appreciate it i had

1567

00:59:30,630 --> 00:59:28,799

over 100 listener questions sent in for

1568

00:59:32,789 --> 00:59:30,640

this and that's just the ones i managed

1569

00:59:34,309 --> 00:59:32,799

to get on paper so i would love if in

1570

00:59:35,589 --> 00:59:34,319

the near future you could come back on

1571

00:59:37,270 --> 00:59:35,599

and get through some of those listener

1572

00:59:39,349 --> 00:59:37,280

questions because people had some

1573

00:59:40,870 --> 00:59:39,359

fantastic things to ask you so i

1574

00:59:42,230 --> 00:59:40,880

appreciate how busy you are and

1575

00:59:43,510 --> 00:59:42,240

hopefully we can arrange that for down

1576

00:59:45,030 --> 00:59:43,520

the line

1577

00:59:46,390 --> 00:59:45,040

wonderful and thanks everybody for

1578

00:59:48,150 --> 00:59:46,400

listening i'll come back another time

1579

00:59:49,510 --> 00:59:48,160

and we can go through some of those

1580

00:59:51,589 --> 00:59:49,520

questions

1581

00:59:53,589 --> 00:59:51,599

that is all for this week's show thank

1582

00:59:55,589 --> 00:59:53,599

you very much for listening please

1583

00:59:58,309 --> 00:59:55,599

remember to leave the podcaster review

1584

01:00:00,549 --> 00:59:58,319

on your chosen platform you can like

1585

01:00:02,470 --> 01:00:00,559

retweet and subscribe that would all be

1586

01:00:04,630 --> 01:00:02,480

very much appreciated the shows are

1587

01:00:06,150 --> 01:00:04,640

being uploaded onto youtube as we speak

1588

01:00:08,710 --> 01:00:06,160

more and more you can sign up at

1589

01:00:11,430 --> 01:00:08,720

patreon.com forward slash that ufo

1590

01:00:13,589 --> 01:00:11,440

podcast to access shows ad free as well

1591

01:00:16,470 --> 01:00:13,599

please get in touch on twitter facebook

1592

01:00:19,670 --> 01:00:16,480

instagram that ufo podcast of course on

1593

01:00:21,750 --> 01:00:19,680

twitter it's at ufouapam

1594

01:00:24,780 --> 01:00:21,760

and again folks as always keep looking

1595

01:00:47,829 --> 01:00:24,790

up you never know what you might see

1596

01:00:47,839 --> 01:00:51,920

but i'd had some champagne

1597

01:00:51,930 --> 01:01:00,870

[Music]

1598

01:01:14,470 --> 01:01:02,390

i can't imagine how it could have been

1599

01:01:14,480 --> 01:01:22,950

[Music]

1600

01:01:26,630 --> 01:01:24,630

everything was weird and everything was

1601
01:01:35,680 --> 01:01:26,640
red i helped my boys they thought this

1602
01:01:35,690 --> 01:01:50,230
[Music]

1603
01:01:50,240 --> 01:01:55,470
what's that

1604
01:01:55,480 --> 01:02:00,069
[Music]

1605
01:02:00,079 --> 01:02:04,950
for being

1606
01:02:04,960 --> 01:02:09,880
space consider serious lies

1607
01:02:33,120 --> 01:02:30,390
[Music]

1608
01:02:43,390 --> 01:02:33,130
it wasn't

1609
01:03:19,029 --> 01:03:04,020
[Music]

1610
01:03:19,039 --> 01:03:24,030
thank you