

WED AUG 18 **LIVE**
7:00 PM PT/10:00PM ET

AVI LOEB
The Galileo Project

F2B
with Jimmy Church



1
00:03:23,500 --> 00:03:32,949

[Music]

2
00:03:40,850 --> 00:03:36,550

the smoke radio for the masses

3
00:03:42,770 --> 00:03:40,860

July 8 1947 the Army Air Forces has

4
00:03:44,630 --> 00:03:42,780

announced that a flying disc has been

5
00:03:45,770 --> 00:03:44,640

found and is now in the possession of

6
00:03:48,830 --> 00:03:45,780

the army

7
00:03:52,550 --> 00:03:48,840

game is rigged change the game game

8
00:03:56,149 --> 00:03:52,560

changer I occasionally think how quickly

9
00:03:59,509 --> 00:03:56,159

our difference is worldwide would vanish

10
00:04:05,170 --> 00:03:59,519

if we were facing an alien threat from

11
00:04:11,869 --> 00:04:08,149

this is Fade to Black with your host

12
00:04:15,470 --> 00:04:11,879

Jimmy Church on the game changer radio

13
00:04:18,670 --> 00:04:15,480

network and kgra the global radio

14

00:04:24,340 --> 00:04:22,510

I need your help to get to the year

15

00:04:27,730 --> 00:04:24,350

1985.

16

00:04:30,469 --> 00:04:27,740

[Music]

17

00:04:35,350 --> 00:04:30,479

you're listening to fade to black with

18

00:04:35,360 --> 00:04:39,850

well well well good evening

19

00:04:43,450 --> 00:04:41,860

Fade to Black

20

00:04:46,189 --> 00:04:43,460

[Music]

21

00:04:47,930 --> 00:04:46,199

spoke radio

22

00:04:50,650 --> 00:04:47,940

four

23

00:04:53,870 --> 00:04:50,660

the

24

00:04:57,370 --> 00:04:53,880

masses I yeah man today's Wednesday

25

00:05:00,670 --> 00:04:57,380

August 18th 2021.

26

00:05:02,990 --> 00:05:00,680

231 days into the new year only

27

00:05:09,230 --> 00:05:03,000

144 days left

28

00:05:11,629 --> 00:05:09,240

[Music]

29

00:05:13,629 --> 00:05:11,639

we are live from a bunker somewhere in

30

00:05:16,730 --> 00:05:13,639

the middle of nowhere a total

31

00:05:20,450 --> 00:05:16,740

undisclosed location

32

00:05:22,850 --> 00:05:20,460

but it is beautiful it is it truly is

33

00:05:24,170 --> 00:05:22,860

love it

34

00:05:27,230 --> 00:05:24,180

I would like to welcome everybody

35

00:05:29,870 --> 00:05:27,240

listening all around the world all

36

00:05:32,629 --> 00:05:29,880

across the United States

37

00:05:34,550 --> 00:05:32,639

hither and tither to and fro back and

38

00:05:37,010 --> 00:05:34,560

forth up and down east and west north

39

00:05:39,590 --> 00:05:37,020

and south far and near

40

00:05:44,270 --> 00:05:39,600

this is Fade to Black for kjcr the game

41

00:05:46,189 --> 00:05:44,280

changer Network and kgra the planets I'm

42

00:05:48,170 --> 00:05:46,199

Yours Jimmy Church what is cracking

43

00:05:52,490 --> 00:05:48,180

everybody how you doing

44

00:05:54,650 --> 00:05:52,500

all right you've been waiting for this

45

00:05:59,150 --> 00:05:54,660

tonight

46

00:06:02,330 --> 00:05:59,160

very special guest Professor Avi Loeb is

47

00:06:04,249 --> 00:06:02,340

here gonna be talking about the Galileo

48

00:06:05,809 --> 00:06:04,259

projects

49

00:06:08,270 --> 00:06:05,819

and that's it for the week because

50

00:06:10,070 --> 00:06:08,280

tomorrow night I'm taking the night off

51
00:06:12,230 --> 00:06:10,080
and I'm gonna remind you throughout the

52
00:06:15,730 --> 00:06:12,240
show tonight

53
00:06:17,990 --> 00:06:15,740
I will inevitably get an email Dude

54
00:06:19,550 --> 00:06:18,000
Where's the show where's fader night

55
00:06:21,590 --> 00:06:19,560
where's

56
00:06:24,710 --> 00:06:21,600
Dude Where's the show

57
00:06:26,330 --> 00:06:24,720
dude it's not on the podcast

58
00:06:28,309 --> 00:06:26,340
not my problem

59
00:06:30,650 --> 00:06:28,319
been telling you all week

60
00:06:33,230 --> 00:06:30,660
I'm taking tomorrow off I've got a very

61
00:06:36,170 --> 00:06:33,240
busy weekend in front of me I am working

62
00:06:38,930 --> 00:06:36,180
so don't you worry I'm not relaxing I

63
00:06:42,590 --> 00:06:38,940

won't be you know Margaritas by a pool

64

00:06:44,870 --> 00:06:42,600

oh God that sounds so great

65

00:06:46,249 --> 00:06:44,880

so great I don't know if I would dive in

66

00:06:51,430 --> 00:06:46,259

the pool well I would if there was

67

00:06:57,890 --> 00:06:55,850

ah but uh anyway no no Margaritas by the

68

00:07:02,809 --> 00:06:57,900

pool I am working all weekend but

69

00:07:06,110 --> 00:07:02,819

tonight it is Professor Avi Loeb and um

70

00:07:10,010 --> 00:07:06,120

uh also going on uh today's the 18th

71

00:07:11,990 --> 00:07:10,020

they're making contact conference and uh

72

00:07:13,370 --> 00:07:12,000

some of you are over there some of you

73

00:07:16,790 --> 00:07:13,380

are hanging out over there instead of

74

00:07:20,629 --> 00:07:16,800

being over here uh I would assume but uh

75

00:07:23,029 --> 00:07:20,639

that is going on right now and also

76

00:07:24,890 --> 00:07:23,039

um in the description box below I have

77

00:07:26,689 --> 00:07:24,900

the making contact conference it is

78

00:07:29,749 --> 00:07:26,699

there it's going on for the next five

79

00:07:32,749 --> 00:07:29,759

days so you can click and uh I'm hoping

80

00:07:33,770 --> 00:07:32,759

the promo code is still good right try

81

00:07:39,710 --> 00:07:33,780

it

82

00:07:41,330 --> 00:07:39,720

and get registered for that I will be uh

83

00:07:44,629 --> 00:07:41,340

doing appearances uh throughout the

84

00:07:47,990 --> 00:07:44,639

weekend and uh I will be there uh for my

85

00:07:50,270 --> 00:07:48,000

presentation on Saturday night also in

86

00:07:53,270 --> 00:07:50,280

the description box below

87

00:07:54,770 --> 00:07:53,280

is the conscious life Expo so I want you

88

00:07:57,110 --> 00:07:54,780

to go and click on that the promo code

89

00:07:59,629 --> 00:07:57,120

is there for that too as well which is

90

00:08:02,510 --> 00:07:59,639

Jimmy and that is going on that's an

91

00:08:05,570 --> 00:08:02,520

in-person event in Los Angeles at The

92

00:08:08,330 --> 00:08:05,580

Lax Hilton it's two cities two countries

93

00:08:12,230 --> 00:08:08,340

Los Angeles and London going on

94

00:08:13,670 --> 00:08:12,240

September 17th 18th and 19th promo code

95

00:08:16,129 --> 00:08:13,680

is Jimmy

96

00:08:19,249 --> 00:08:16,139

um super low ticket prices for that and

97

00:08:20,689 --> 00:08:19,259

and day passes so just come out and hang

98

00:08:25,070 --> 00:08:20,699

out with us I'll have the Fade to Black

99

00:08:26,809 --> 00:08:25,080

uh booth there as well it is I I just

100

00:08:29,450 --> 00:08:26,819

can't wait for that conference coming up

101

00:08:32,209 --> 00:08:29,460

right after that is starworks USA in

102

00:08:34,250 --> 00:08:32,219

Laughlin Nevada that's in November so

103

00:08:37,670 --> 00:08:34,260

we're still a few months out from that

104

00:08:39,709 --> 00:08:37,680

uh there you go nice full end of the

105

00:08:42,529 --> 00:08:39,719

year conference season coming up you can

106

00:08:46,730 --> 00:08:42,539

follow me on Twitter at J churchradio

107

00:08:48,769 --> 00:08:46,740

that's right who is Avi Loeb I heard

108

00:08:50,570 --> 00:08:48,779

this on Jeopardy last month

109

00:08:54,110 --> 00:08:50,580

I'm watching with my parents is that

110

00:08:57,050 --> 00:08:54,120

true Sarah Anne Sarah Ann I got your

111

00:09:00,230 --> 00:08:57,060

email uh Sarah Ann last month it was

112

00:09:03,050 --> 00:09:00,240

weird okay I'll admit I'll admit it was

113

00:09:06,769 --> 00:09:03,060

weird because on on fader night Sarah

114

00:09:08,630 --> 00:09:06,779

Ann calls in and uh and then right after

115

00:09:12,590 --> 00:09:08,640

that a few minutes later was Carrie from

116

00:09:15,949 --> 00:09:12,600

Palm Springs and they sound alike and I

117

00:09:17,269 --> 00:09:15,959

thought and I I messed up it was like a

118

00:09:19,430 --> 00:09:17,279

totally weird

119

00:09:21,350 --> 00:09:19,440

because when I heard Sarah Ann's voice I

120

00:09:23,690 --> 00:09:21,360

was thinking it was Carrie from Palm

121

00:09:25,670 --> 00:09:23,700

Springs who I just hung out with in

122

00:09:28,490 --> 00:09:25,680

Laughlin and I said all this crazy stuff

123

00:09:30,350 --> 00:09:28,500

anyway uh Saran sends me this email

124

00:09:33,050 --> 00:09:30,360

she's like uh Jimmy

125

00:09:37,310 --> 00:09:33,060

I I I think he thought I was somebody

126

00:09:42,590 --> 00:09:41,210

I did oh it's so funny Saran we love you

127

00:09:45,470 --> 00:09:42,600

it's good to see you in the sandbox

128

00:09:47,509 --> 00:09:45,480

follow me on Twitter at J Church radio

129

00:09:51,470 --> 00:09:47,519

that the sandbox right now which is

130

00:09:53,930 --> 00:09:51,480

going off is hashtag f2b I was already

131

00:09:55,430 --> 00:09:53,940

over on YouTube before the show I

132

00:09:57,170 --> 00:09:55,440

haven't had a chance to get over to

133

00:10:01,069 --> 00:09:57,180

speaker but hello to everybody over

134

00:10:05,889 --> 00:10:01,079

there YouTube Facebook kgra raise Hobbs

135

00:10:10,790 --> 00:10:05,899

k g r a and uh there you go all right

136

00:10:14,269 --> 00:10:10,800

ah I as you can tell I am in a great

137

00:10:17,090 --> 00:10:14,279

mood and um things are going down and

138

00:10:19,190 --> 00:10:17,100

going down very quickly I mentioned at

139

00:10:22,910 --> 00:10:19,200

the end of the show last night

140

00:10:26,449 --> 00:10:22,920

that uh this Monday I will have my not

141

00:10:29,030 --> 00:10:26,459

going to announce everything just yet

142

00:10:32,329 --> 00:10:29,040

because I want it all to be a surprise

143

00:10:36,230 --> 00:10:32,339

uh for Monday night but Monday night one

144

00:10:40,069 --> 00:10:36,240

of the films that I am working on that

145

00:10:42,730 --> 00:10:40,079

was just completed is uh is getting

146

00:10:46,910 --> 00:10:42,740

ready to get into a film festival

147

00:10:49,730 --> 00:10:46,920

so uh the the movie company and the

148

00:10:51,829 --> 00:10:49,740

director all said hey Jimmy let's

149

00:10:54,050 --> 00:10:51,839

announce all of this on Fade to Black so

150

00:10:56,030 --> 00:10:54,060

what we are going to do Monday night I'm

151
00:10:59,150 --> 00:10:56,040
gonna have the director of the film here

152
00:11:02,090 --> 00:10:59,160
and uh there's that part second we are

153
00:11:06,410 --> 00:11:02,100
going to going to do the world premiere

154
00:11:07,790 --> 00:11:06,420
for the trailer here on Fade to Black so

155
00:11:09,650 --> 00:11:07,800
you're gonna get to see that first you

156
00:11:12,410 --> 00:11:09,660
got a movie poster all of that

157
00:11:15,590 --> 00:11:12,420
everything is going to be revealed on

158
00:11:18,470 --> 00:11:15,600
Monday night and I am so excited so I've

159
00:11:21,829 --> 00:11:18,480
been dealing with that this week then

160
00:11:25,130 --> 00:11:21,839
there is the second film that uh was

161
00:11:26,930 --> 00:11:25,140
just completed as well and all the

162
00:11:29,509 --> 00:11:26,940
preparations for that and the premiere

163
00:11:33,350 --> 00:11:29,519

that is coming up I have mentioned

164

00:11:38,269 --> 00:11:33,360

everybody uh about a new TV series that

165

00:11:39,829 --> 00:11:38,279

is now in the works too as well so

166

00:11:42,110 --> 00:11:39,839

um all of these announcements are going

167

00:11:45,530 --> 00:11:42,120

to be happening over the next couple of

168

00:11:47,750 --> 00:11:45,540

weeks and I am just absolutely excited

169

00:11:49,670 --> 00:11:47,760

I'm walking around like four inches off

170

00:11:51,590 --> 00:11:49,680

of the ground right now

171

00:11:54,129 --> 00:11:51,600

um I'm very very happy worked really

172

00:11:56,690 --> 00:11:54,139

hard all year on all of these projects

173

00:11:58,550 --> 00:11:56,700

and you know and they take a while to

174

00:12:00,889 --> 00:11:58,560

get done yeah post-production yeah this

175

00:12:02,629 --> 00:12:00,899

and that contract this agents all that

176

00:12:05,389 --> 00:12:02,639

stuff is involved

177

00:12:07,970 --> 00:12:05,399

um and it seems like it's never you know

178

00:12:10,370 --> 00:12:07,980

it's never going to get done now just

179

00:12:12,889 --> 00:12:10,380

like it's it's it's pouring and raining

180

00:12:15,290 --> 00:12:12,899

all at the same time that Inc in in

181

00:12:18,949 --> 00:12:15,300

combination with all of these

182

00:12:22,069 --> 00:12:18,959

uh uh conferences and uh and another

183

00:12:24,590 --> 00:12:22,079

little side note over the next month and

184

00:12:27,949 --> 00:12:24,600

this is really weird uh going through

185

00:12:31,250 --> 00:12:27,959

September I'm appearing on some other uh

186

00:12:33,650 --> 00:12:31,260

radio shows and that's pretty cool so

187

00:12:36,050 --> 00:12:33,660

all of this is just like wow just

188

00:12:39,710 --> 00:12:36,060

happening at the same time so I'm I'm in

189

00:12:41,230 --> 00:12:39,720

a great great mood all right now that

190

00:12:44,930 --> 00:12:41,240

being said

191

00:12:46,730 --> 00:12:44,940

let's get to the breaking news

192

00:12:49,490 --> 00:12:46,740

are you ready

193

00:12:51,410 --> 00:12:49,500

Story number one

194

00:12:53,930 --> 00:12:51,420

I you know I I got to get some sound

195

00:12:56,210 --> 00:12:53,940

bites number one and you know just hit

196

00:12:58,670 --> 00:12:56,220

the button number two

197

00:13:01,970 --> 00:12:58,680

is that is that two radio

198

00:13:05,750 --> 00:13:03,829

I remember back in the old days of fade

199

00:13:08,269 --> 00:13:05,760

fade to black when I took everything so

200

00:13:11,090 --> 00:13:08,279

serious all right I got uh the first

201
00:13:13,910 --> 00:13:11,100
news story uh tonight and I've got to

202
00:13:13,920 --> 00:13:19,910
ah so now I'm all about the circus

203
00:13:19,920 --> 00:13:24,769
number one story number one

204
00:13:30,590 --> 00:13:26,389
real Crypt

205
00:13:35,269 --> 00:13:30,600
next to Hugh Hefner and Marilyn Monroe

206
00:13:37,610 --> 00:13:35,279
is up for sale with bids starting at 2

207
00:13:42,410 --> 00:13:37,620
million dollars

208
00:13:44,689 --> 00:13:42,420
it's currently owned by the family of

209
00:13:47,750 --> 00:13:44,699
the late Jerry Herman now

210
00:13:49,670 --> 00:13:47,760
it's up now is it up for sale or is it

211
00:13:52,250 --> 00:13:49,680
up for auction

212
00:13:54,590 --> 00:13:52,260
okay but anyway the starting bid is two

213
00:13:57,350 --> 00:13:54,600

million dollars right next to you Hefner

214

00:13:59,150 --> 00:13:57,360

Marilyn Monroe the Crypt is located at

215

00:14:02,269 --> 00:13:59,160

Pierce Brothers Westwood Village

216

00:14:04,670 --> 00:14:02,279

Memorial Park in Los Angeles the final

217

00:14:07,370 --> 00:14:04,680

home for many celebrities like Natalie

218

00:14:10,370 --> 00:14:07,380

Wood Dean Martin Farrah Fawcett and

219

00:14:13,910 --> 00:14:10,380

Truman Capote Herman

220

00:14:17,150 --> 00:14:13,920

that's right Herman was known for Hello

221

00:14:22,009 --> 00:14:17,160

Dolly that's right he wrote that and he

222

00:14:25,490 --> 00:14:22,019

originally purchased the Crypt in 1997

223

00:14:28,730 --> 00:14:25,500

for 75 000 and that's what by the way

224

00:14:31,610 --> 00:14:28,740

that's what Hugh Hefner paid 75 grand to

225

00:14:34,250 --> 00:14:31,620

be next to Marilyn Monroe uh but

226

00:14:36,769 --> 00:14:34,260

apparently

227

00:14:40,670 --> 00:14:36,779

with inflation

228

00:14:45,110 --> 00:14:40,680

and the state of the 2021 dollar that

229

00:14:47,090 --> 00:14:45,120

price is now two million dollars

230

00:14:50,030 --> 00:14:47,100

all right let's get to Elon Musk and

231

00:14:53,930 --> 00:14:50,040

starlink starlink satellites responsible

232

00:14:57,189 --> 00:14:53,940

for our responsible now listen to this

233

00:15:01,490 --> 00:14:57,199

are responsible for more than 50 percent

234

00:15:04,009 --> 00:15:01,500

of Close Encounters in space

235

00:15:07,310 --> 00:15:04,019

satellite constellation operators are

236

00:15:09,590 --> 00:15:07,320

constantly forced to move satellites due

237

00:15:14,389 --> 00:15:09,600

to encounters with other spacecraft and

238

00:15:17,930 --> 00:15:15,949

event

239

00:15:19,310 --> 00:15:17,940

to increase the number of dangerous

240

00:15:23,090 --> 00:15:19,320

approaches

241

00:15:25,610 --> 00:15:23,100

on starlink satellites The Operators

242

00:15:29,269 --> 00:15:25,620

looked at data dating back to May 2019

243

00:15:31,790 --> 00:15:29,279

when starlink was first launched since

244

00:15:35,090 --> 00:15:31,800

then the number of encounters acquired

245

00:15:38,090 --> 00:15:35,100

by the Socrates database has more than

246

00:15:39,650 --> 00:15:38,100

doubled and starlink now accounts for

247

00:15:41,569 --> 00:15:39,660

half

248

00:15:45,170 --> 00:15:41,579

of all encounters

249

00:15:48,590 --> 00:15:45,180

of Close Encounters

250

00:15:50,870 --> 00:15:48,600

freaking Elon Chinese debris right

251
00:15:54,829 --> 00:15:50,880
talking about Close Encounters right

252
00:15:57,110 --> 00:15:54,839
well a Chinese satellite got whacked

253
00:15:58,430 --> 00:15:57,120
whacked like

254
00:16:01,850 --> 00:15:58,440
killed

255
00:16:04,249 --> 00:16:01,860
by a hunk of Russian Rockets that's

256
00:16:05,269 --> 00:16:04,259
right and this happened back in March we

257
00:16:07,370 --> 00:16:05,279
know

258
00:16:10,249 --> 00:16:07,380
that back in March of this year the

259
00:16:13,730 --> 00:16:10,259
United States space Force's 18th space

260
00:16:16,850 --> 00:16:13,740
control Squadron reported the breakup of

261
00:16:19,249 --> 00:16:16,860
the yoon-high 102 a Chinese military

262
00:16:22,970 --> 00:16:19,259
satellite that launched in September of

263
00:16:25,129 --> 00:16:22,980

2019. it was unclear at the time whether

264

00:16:28,069 --> 00:16:25,139

the spacecraft had suffered some kind of

265

00:16:31,730 --> 00:16:28,079

failure like an explosion in its

266

00:16:35,749 --> 00:16:31,740

propulsion system or if it had collided

267

00:16:38,870 --> 00:16:35,759

with something in orbit well we now know

268

00:16:41,509 --> 00:16:38,880

that the latter explanation is correct

269

00:16:44,810 --> 00:16:41,519

thanks to astrophysicist Jonathan

270

00:16:46,490 --> 00:16:44,820

McDowell who's based at once again the

271

00:16:49,329 --> 00:16:46,500

Harvard Smithsonian Center for

272

00:16:52,810 --> 00:16:49,339

astrophysics in Cambridge Massachusetts

273

00:16:55,850 --> 00:16:52,820

McDowell spotted an update in the

274

00:16:58,249 --> 00:16:55,860

spacetrack.org catalog which the space

275

00:17:02,150 --> 00:16:58,259

force makes available to registered

276

00:17:09,730 --> 00:17:02,160

users the update included

277

00:17:17,150 --> 00:17:12,669

48078-1996051q and the note said

278

00:17:18,490 --> 00:17:17,160

collided with satellite McDowell found

279

00:17:22,429 --> 00:17:18,500

that object

280

00:17:25,490 --> 00:17:22,439

48078 is a small piece of space junk a

281

00:17:29,570 --> 00:17:25,500

piece of debris from the Zenit to rocket

282

00:17:32,950 --> 00:17:29,580

that launched Russia's tenslina to spy

283

00:17:36,110 --> 00:17:32,960

satellite back in September

284

00:17:39,230 --> 00:17:36,120

1996. there you go let's get this show

285

00:17:42,110 --> 00:17:39,240

cracking happy birthday to today

286

00:17:44,870 --> 00:17:42,120

can't believe this Robert Redford

287

00:17:46,970 --> 00:17:44,880

is 85.

288

00:17:50,330 --> 00:17:46,980

Christian Slater

289

00:17:53,570 --> 00:17:50,340

is 52. I you know and you start thinking

290

00:17:55,610 --> 00:17:53,580

what is Kristen Slater's best movie

291

00:18:01,630 --> 00:17:55,620

I'm still going with Gleaming the Cube

292

00:18:06,169 --> 00:18:01,640

Ed Norton today is 52. Slaughter drummer

293

00:18:08,330 --> 00:18:06,179

blast Elias today is 54. plus you know

294

00:18:10,730 --> 00:18:08,340

in addition to slaughter he's the

295

00:18:12,230 --> 00:18:10,740

drummer in the Trans-Siberian Orchestra

296

00:18:16,430 --> 00:18:12,240

right now

297

00:18:19,610 --> 00:18:16,440

he also is in raiding the Rock Vault in

298

00:18:23,630 --> 00:18:19,620

Las Vegas and he's still in Slaughter

299

00:18:25,850 --> 00:18:23,640

remember that movie Rock Star with um

300

00:18:28,909 --> 00:18:25,860

oh man

301

00:18:32,390 --> 00:18:28,919

New Kids on the Block

302

00:18:35,390 --> 00:18:32,400

ah what's his name as the singer

303

00:18:37,490 --> 00:18:35,400

that was Bloss that played the drums in

304

00:18:40,190 --> 00:18:37,500

that movie for his band

305

00:18:41,930 --> 00:18:40,200

um Steel Dragon all of this is coming

306

00:18:44,630 --> 00:18:41,940

from memory and I can't remember who

307

00:18:46,190 --> 00:18:44,640

this New Kids on the Block

308

00:18:47,810 --> 00:18:46,200

oh whatever

309

00:18:50,210 --> 00:18:47,820

all right

310

00:18:53,990 --> 00:18:50,220

our dead guy's birthday today is oh

311

00:18:56,590 --> 00:18:54,000

Everlast today is 52. our dead guy's

312

00:18:59,870 --> 00:18:56,600

birthday today is Patrick Swayze

313

00:19:03,470 --> 00:18:59,880

1952-2009 died at the age of 57. Patrick

314

00:19:05,570 --> 00:19:03,480

of course received three nominations for

315

00:19:08,810 --> 00:19:05,580

Golden Globe awards for best lead actor

316

00:19:12,890 --> 00:19:08,820

for his roles in Dirty Dancing 1987

317

00:19:18,110 --> 00:19:12,900

ghost 1980 and two Wong food Thanks for

318

00:19:22,190 --> 00:19:18,120

Everything Julie Newmar in 1995 but

319

00:19:25,430 --> 00:19:22,200

his two best films were Red Dawn and

320

00:19:27,710 --> 00:19:25,440

Donnie Darko that's a fact

321

00:19:32,450 --> 00:19:27,720

Patrick died with his family at his side

322

00:19:35,870 --> 00:19:32,460

on September 14 2009 at the age of 57

323

00:19:39,169 --> 00:19:35,880

his death occurred just 20 months after

324

00:19:43,150 --> 00:19:39,179

his cancer diagnosis on this day in

325

00:19:46,190 --> 00:19:43,160

history 1991 Soviet president Mikhail

326

00:19:49,250 --> 00:19:46,200

Gorbachev is placed under house arrest

327

00:19:52,549 --> 00:19:49,260

during a coup by high-ranking members of

328

00:19:54,529 --> 00:19:52,559

his own government his own military and

329

00:19:58,669 --> 00:19:54,539

his own police force

330

00:20:00,350 --> 00:19:58,679

fader fact all right here we go

331

00:20:02,330 --> 00:20:00,360

here we go

332

00:20:04,730 --> 00:20:02,340

a person

333

00:20:06,230 --> 00:20:04,740

normally I give you the full name in

334

00:20:10,669 --> 00:20:06,240

this case I couldn't

335

00:20:12,770 --> 00:20:10,679

so a person only known as Alberto now I

336

00:20:15,169 --> 00:20:12,780

watched the TV Clips on this I watch

337

00:20:16,789 --> 00:20:15,179

them on all the major news outlets he

338

00:20:21,350 --> 00:20:16,799

only wanted to go with Alberto but

339

00:20:24,649 --> 00:20:21,360

Alberto was charged 62 thousand dollars

340

00:20:28,970 --> 00:20:24,659

by his wireless carrier for downloading

341

00:20:35,770 --> 00:20:28,980

the movie Wall E wow

342

00:20:42,830 --> 00:20:40,070

the carrier reduced the bill down to 17

343

00:20:47,390 --> 00:20:42,840

grand arguing that the five-figure

344

00:20:51,230 --> 00:20:47,400

charge was what it cost them to deliver

345

00:20:52,730 --> 00:20:51,240

the movie and that is your fader fact

346

00:20:54,830 --> 00:20:52,740

man you remember those roaming charges

347

00:20:57,950 --> 00:20:54,840

back in the day remember that

348

00:21:00,890 --> 00:20:57,960

tonight very special guest Avi Loeb he's

349

00:21:03,289 --> 00:21:00,900

here to tell us about his Galileo

350

00:21:06,710 --> 00:21:03,299

project and of course tomorrow night

351
00:21:07,610 --> 00:21:06,720
I'll be taking the night off now let me

352
00:21:09,950 --> 00:21:07,620
hit

353
00:21:11,750 --> 00:21:09,960
good movie Cassandra I'm going to give

354
00:21:13,610 --> 00:21:11,760
you credit on that I forgot about

355
00:21:19,010 --> 00:21:13,620
Heather's I'm still going with Gleaming

356
00:21:25,310 --> 00:21:23,149
oh yeah true romance ah yes

357
00:21:27,110 --> 00:21:25,320
True Romance still going with Gleaming

358
00:21:29,750 --> 00:21:27,120
the Cube though

359
00:21:32,870 --> 00:21:29,760
True Romance is great still going with

360
00:21:36,110 --> 00:21:32,880
uh Gleaming the Cube

361
00:21:38,930 --> 00:21:36,120
all right fader fact

362
00:21:41,930 --> 00:21:38,940
River Moon coffee River moonwellness.com

363
00:21:43,669 --> 00:21:41,940

just go get the coffee everybody has

364

00:21:45,950 --> 00:21:43,679

been telling you it's the best coffee in

365

00:21:49,909 --> 00:21:45,960

the world it's not me I'm a great hype

366

00:21:52,190 --> 00:21:49,919

man I get it it's the best coffee in the

367

00:21:53,510 --> 00:21:52,200

world go over to jimmychurchradio.com we

368

00:21:55,490 --> 00:21:53,520

have an Amazon store we have the

369

00:21:58,430 --> 00:21:55,500

websites we have two we have Fade to

370

00:22:01,789 --> 00:21:58,440

Black blend we have uh the game changer

371

00:22:04,490 --> 00:22:01,799

blend we have a promo code f2b blend go

372

00:22:07,610 --> 00:22:04,500

and get the coffee it's the best that's

373

00:22:10,490 --> 00:22:07,620

it you can thank me later all right

374

00:22:14,390 --> 00:22:10,500

now let me hit this man that's a great

375

00:22:21,649 --> 00:22:17,330

who would put a tattoo of me on their

376

00:22:23,750 --> 00:22:21,659

body oh that's uh that's genocide

377

00:22:26,450 --> 00:22:23,760

that's a great tattoo though

378

00:22:34,210 --> 00:22:26,460

I got to get that hairstyle back that

379

00:22:44,630 --> 00:22:38,090

what if

380

00:22:45,970 --> 00:22:44,640

the scientific Community to look at our

381

00:22:51,590 --> 00:22:45,980

skies

382

00:22:54,470 --> 00:22:51,600

24 7. to take a look at everything

383

00:22:58,610 --> 00:22:54,480

and I do mean everything two

384

00:23:01,070 --> 00:22:58,620

to check out and identify every object

385

00:23:04,789 --> 00:23:01,080

that is flying

386

00:23:08,090 --> 00:23:04,799

floating right fast slow up down left

387

00:23:11,690 --> 00:23:08,100

right hither and tither everything track

388

00:23:15,890 --> 00:23:11,700

and image all that there is an absolute

389

00:23:20,390 --> 00:23:15,900

high-res Fidelity and

390

00:23:21,409 --> 00:23:20,400

report back on what they find to us the

391

00:23:24,350 --> 00:23:21,419

public

392

00:23:28,730 --> 00:23:24,360

without any government interference or

393

00:23:32,029 --> 00:23:28,740

oversight right what if

394

00:23:35,750 --> 00:23:32,039

right think about that well that is

395

00:23:38,990 --> 00:23:35,760

exactly what Avi lobe is going to do now

396

00:23:40,370 --> 00:23:39,000

this is not a proposal this is not an

397

00:23:43,909 --> 00:23:40,380

idea

398

00:23:45,649 --> 00:23:43,919

it's a project that is now officially

399

00:23:47,810 --> 00:23:45,659

underway

400

00:23:50,390 --> 00:23:47,820

now

401
00:23:51,470 --> 00:23:50,400
we can talk about Navy videos all day

402
00:23:54,890 --> 00:23:51,480
long

403
00:23:56,390 --> 00:23:54,900
but that's the Navy and to be quite

404
00:23:58,870 --> 00:23:56,400
honest

405
00:24:03,529 --> 00:23:58,880
the video themselves

406
00:24:08,269 --> 00:24:05,570
they don't show us anything

407
00:24:10,310 --> 00:24:08,279
fuzzy grainy out of focus third

408
00:24:12,110 --> 00:24:10,320
generation and remember those videos

409
00:24:15,470 --> 00:24:12,120
that you're seeing from the Navy that's

410
00:24:18,230 --> 00:24:15,480
somebody that went up to a monitor and

411
00:24:19,850 --> 00:24:18,240
shot a cell phone video of it that's not

412
00:24:26,630 --> 00:24:19,860
first generation

413
00:24:34,310 --> 00:24:30,350

are they definitive of something

414

00:24:35,690 --> 00:24:34,320

no they're not are they cool yeah they

415

00:24:39,470 --> 00:24:35,700

are

416

00:24:42,350 --> 00:24:39,480

but the objects in the videos

417

00:24:44,269 --> 00:24:42,360

could be whatever you want

418

00:24:45,350 --> 00:24:44,279

whatever you want whatever you want to

419

00:24:49,010 --> 00:24:45,360

say they are

420

00:24:52,610 --> 00:24:49,020

you can do it they will represent your

421

00:24:56,029 --> 00:24:52,620

imagination it's really that simple

422

00:24:57,890 --> 00:24:56,039

it's now time to take things to the next

423

00:25:01,549 --> 00:24:57,900

level

424

00:25:02,950 --> 00:25:01,559

we need the real stuff you see honest to

425

00:25:09,649 --> 00:25:02,960

goodness

426

00:25:15,649 --> 00:25:13,130

what Avi Loeb is about to give us

427

00:25:17,570 --> 00:25:15,659

is something that has been needed for a

428

00:25:22,130 --> 00:25:17,580

very long time

429

00:25:24,470 --> 00:25:22,140

with a huge team of about 70 researchers

430

00:25:27,850 --> 00:25:24,480

and scientists all around the world who

431

00:25:32,510 --> 00:25:27,860

will be diving into the UFO UAP question

432

00:25:36,830 --> 00:25:32,520

totally head on with analysis compiled

433

00:25:39,769 --> 00:25:36,840

from the brightest Minds that we have

434

00:25:41,690 --> 00:25:39,779

and let's face it there's a lot going on

435

00:25:43,190 --> 00:25:41,700

in the skies every single day

436

00:25:46,310 --> 00:25:43,200

so

437

00:25:47,570 --> 00:25:46,320

our own government and Military are

438

00:25:51,470 --> 00:25:47,580

saying this

439

00:25:54,590 --> 00:25:51,480

we as a community know this

440

00:25:57,110 --> 00:25:54,600

and the one the one the one missing

441

00:25:59,269 --> 00:25:57,120

piece has been the application of our

442

00:26:02,630 --> 00:25:59,279

scientific Community pulling together

443

00:26:06,230 --> 00:26:02,640

the equipment and the knowledge to

444

00:26:09,409 --> 00:26:06,240

finally get some real answers

445

00:26:17,630 --> 00:26:09,419

now we have seen amazing amazing images

446

00:26:24,049 --> 00:26:21,350

was captured by automated telescopes in

447

00:26:27,289 --> 00:26:24,059

megapixel full color images and video

448

00:26:29,810 --> 00:26:27,299

with data to go along with it altitude

449

00:26:31,190 --> 00:26:29,820

speed trajectory timestamped

450

00:26:33,890 --> 00:26:31,200

temperatures

451
00:26:35,990 --> 00:26:33,900
and totally researched in a peer

452
00:26:39,409 --> 00:26:36,000
laboratory setting

453
00:26:41,450 --> 00:26:39,419
with published reports

454
00:26:43,970 --> 00:26:41,460
now I want you to take a minute to think

455
00:26:52,850 --> 00:26:47,750
because that is exactly what is about to

456
00:26:55,669 --> 00:26:52,860
happen to our community and our world

457
00:26:59,810 --> 00:26:55,679
now we've all seen the movie contact

458
00:27:01,669 --> 00:26:59,820
and and when that moment of finding out

459
00:27:03,769 --> 00:27:01,679
if we were alone in the universe was

460
00:27:06,649 --> 00:27:03,779
finally answered did

461
00:27:10,430 --> 00:27:06,659
they tried to take control of the event

462
00:27:13,370 --> 00:27:10,440
well that is exactly the situation that

463
00:27:16,730 --> 00:27:13,380

Avi and his team has to be very aware of

464

00:27:18,230 --> 00:27:16,740

and I think his response to this will

465

00:27:21,049 --> 00:27:18,240

surprise you

466

00:27:23,389 --> 00:27:21,059

now just when things couldn't get any

467

00:27:25,430 --> 00:27:23,399

better or any crazier for our UFO

468

00:27:28,130 --> 00:27:25,440

Community you know the media the

469

00:27:30,470 --> 00:27:28,140

Department of Defense Tic Tacs our very

470

00:27:32,889 --> 00:27:30,480

own Senate intelligence committee right

471

00:27:36,470 --> 00:27:32,899

all of this going down at the same time

472

00:27:38,690 --> 00:27:36,480

we now have Harvard University jumping

473

00:27:41,810 --> 00:27:38,700

into the deep end of the pool

474

00:27:45,470 --> 00:27:41,820

the Galileo project represents the next

475

00:27:48,830 --> 00:27:45,480

step in our Quest For answers and trust

476
00:27:50,570 --> 00:27:48,840
me Avi and his team are going to have a

477
00:27:52,190 --> 00:27:50,580
great time pouring over the data that is

478
00:27:53,570 --> 00:27:52,200
about to come flooding into their

479
00:27:55,850 --> 00:27:53,580
telescopes

480
00:27:57,710 --> 00:27:55,860
I hope that they're ready I hope that

481
00:27:59,210 --> 00:27:57,720
they're ready for the exciting times

482
00:28:03,130 --> 00:27:59,220
ahead

483
00:28:09,649 --> 00:28:03,140
now tonight's conversation was recorded

484
00:28:12,950 --> 00:28:09,659
right before Showtime it is fresh it is

485
00:28:17,870 --> 00:28:12,960
now so yeah I already know how cool it

486
00:28:19,669 --> 00:28:17,880
is I do so kick back and enjoy what you

487
00:28:21,470 --> 00:28:19,679
are about to hear I'm going to be

488
00:28:24,230 --> 00:28:21,480

hanging out in the chat rooms and social

489

00:28:27,110 --> 00:28:24,240

media throughout the show right and I

490

00:28:33,889 --> 00:28:27,120

can't wait to see your reactions to this

491

00:28:39,169 --> 00:28:37,250

we'll discuss the Galileo project I'm

492

00:28:42,230 --> 00:28:39,179

Yours Jimmy church this is Fade to Black

493

00:28:45,289 --> 00:28:42,240

and The Game Changer Network in kgra

494

00:28:49,010 --> 00:28:45,299

race Hobbs the planet I'll be right back

495

00:28:57,710 --> 00:28:49,020

with Avi Loeb stay right there

496

00:29:00,110 --> 00:28:57,720

[Music]

497

00:29:02,269 --> 00:29:00,120

this is Nicole Church daughter of you

498

00:29:04,130 --> 00:29:02,279

know who and you're listening to fade to

499

00:29:06,970 --> 00:29:04,140

black on.com and The Game Changer

500

00:29:14,330 --> 00:29:09,950

you're listening to Jimmy Church Fade to

501
00:29:14,340 --> 00:29:20,769
will now before alien

502
00:29:20,779 --> 00:29:25,310
kgra radio

503
00:29:29,690 --> 00:29:27,649
introducing the game changer blend from

504
00:29:32,149 --> 00:29:29,700
River Moon coffee that delivers a

505
00:29:34,850 --> 00:29:32,159
customized blend made specifically for

506
00:29:38,269 --> 00:29:34,860
the fader knots if the game is rigged

507
00:29:41,029 --> 00:29:38,279
change the game it's a bolder cup with

508
00:29:43,250 --> 00:29:41,039
some bite Game Changer is the copy of

509
00:29:45,590 --> 00:29:43,260
choice for those that prefer an organic

510
00:29:49,070 --> 00:29:45,600
dark roast that is slightly lighter and

511
00:29:51,529 --> 00:29:49,080
milder but it's still dark with wild

512
00:29:54,049 --> 00:29:51,539
notes of pecans and chocolate with a

513
00:29:56,269 --> 00:29:54,059

rich balanced full-bodied cup that is

514

00:29:58,909 --> 00:29:56,279

roasted to Perfection or a great coffee

515

00:30:02,389 --> 00:29:58,919

to start your day as an after dinner

516

00:30:05,210 --> 00:30:02,399

coffee or anywhere in between Artisan

517

00:30:07,549 --> 00:30:05,220

small batch roasted to Perfection USDA

518

00:30:10,250 --> 00:30:07,559

certified organic all River Moon coffee

519

00:30:12,950 --> 00:30:10,260

is freshly roasted and packaged in the

520

00:30:14,990 --> 00:30:12,960

USA just go to rivermooncoffee.com or

521

00:30:18,350 --> 00:30:15,000

click on the banners over on our site

522

00:30:20,450 --> 00:30:18,360

and use the promo code f2b blend for 15

523

00:30:25,250 --> 00:30:20,460

off of your order today

524

00:30:34,370 --> 00:30:31,029

way forward this is a black make contact

525

00:30:36,110 --> 00:30:34,380

kgra.radio.com

526

00:30:39,049 --> 00:30:36,120

this is Jimmy Church of Fade to Black

527

00:30:41,269 --> 00:30:39,059

and you can get our podcast for just two

528

00:30:43,730 --> 00:30:41,279

dollars per month all you have to do is

529

00:30:46,370 --> 00:30:43,740

click on the podcast Banner over at

530

00:30:49,250 --> 00:30:46,380

jimmychurchradio.com

531

00:30:51,830 --> 00:30:49,260

hi folks it's trembling times and fear

532

00:30:53,630 --> 00:30:51,840

is pushing emotions which in turn pushes

533

00:30:55,730 --> 00:30:53,640

Health the wrong direction do you ever

534

00:30:58,310 --> 00:30:55,740

get an ache because life is uneasy try

535

00:31:00,049 --> 00:30:58,320

life change T at getthet.com life change

536

00:31:02,269 --> 00:31:00,059

Tea Works on your digestive tract

537

00:31:04,310 --> 00:31:02,279

helping to move food through quicker and

538

00:31:06,350 --> 00:31:04,320

comfortably so your health is spot on

539

00:31:08,690 --> 00:31:06,360

life change team may not help with World

540

00:31:11,149 --> 00:31:08,700

issues but it will help with your

541

00:31:14,210 --> 00:31:11,159

digestive issues a glass a day helps

542

00:31:17,269 --> 00:31:14,220

keep The Intruders away so change your

543

00:31:20,330 --> 00:31:17,279

life today log on to getthet.com that's

544

00:31:22,850 --> 00:31:20,340

get the tea.com if your health game is

545

00:31:25,610 --> 00:31:22,860

off get on by ordering life change tea

546

00:31:27,889 --> 00:31:25,620

get the tea.com and while you're on our

547

00:31:29,810 --> 00:31:27,899

site look around at the great non-GMO

548

00:31:31,850 --> 00:31:29,820

organic supplements and if you're a

549

00:31:34,130 --> 00:31:31,860

sales Shopper go to our specials page

550

00:31:35,810 --> 00:31:34,140

and see what's for you I've been

551
00:31:38,210 --> 00:31:35,820
drinking the tea for 12 years and I'm

552
00:31:42,590 --> 00:31:38,220
sure glad for its health benefits again

553
00:31:44,930 --> 00:31:42,600
that's get the tea.com get the tea.com

554
00:31:47,269 --> 00:31:44,940
the tea that makes you go

555
00:31:48,950 --> 00:31:47,279
fade or not when you think about the

556
00:31:50,750 --> 00:31:48,960
future of our country and where we're

557
00:31:53,870 --> 00:31:50,760
headed do you wonder about the food

558
00:31:56,210 --> 00:31:53,880
supply I do disruptions in the food

559
00:31:58,430 --> 00:31:56,220
supply chain could be disastrous and

560
00:32:00,769 --> 00:31:58,440
they usually occur with little warning

561
00:32:03,289 --> 00:32:00,779
that's why the smartest thing you can do

562
00:32:06,710 --> 00:32:03,299
today is to stockpile emergency food

563
00:32:09,710 --> 00:32:06,720

water and other Essentials I personally

564

00:32:11,810 --> 00:32:09,720

recommend my Patriot Supply they're the

565

00:32:14,330 --> 00:32:11,820

nation's largest emergency preparedness

566

00:32:17,029 --> 00:32:14,340

company serving millions of customers

567

00:32:19,669 --> 00:32:17,039

for more than a decade in fact they're

568

00:32:22,850 --> 00:32:19,679

the only source my family trusts for our

569

00:32:25,909 --> 00:32:22,860

preparedness plan you should too right

570

00:32:28,549 --> 00:32:25,919

now save 20 off of full four week supply

571

00:32:31,669 --> 00:32:28,559

of delicious meals that provide 2 000

572

00:32:35,169 --> 00:32:31,679

calories a day saving 20 helps too

573

00:32:38,029 --> 00:32:35,179

doesn't it especially now so go to

574

00:32:41,210 --> 00:32:38,039

preparewithjimmy.com and get ready let's

575

00:32:44,990 --> 00:32:41,220

prepare with jimmy.com there's no time

576

00:32:51,440 --> 00:32:45,000

to lose do it now

577

00:32:51,450 --> 00:32:56,690

[Music]

578

00:33:03,529 --> 00:32:59,930

on the game changer radio network and

579

00:33:06,230 --> 00:33:03,539

kgra the planet

580

00:33:07,310 --> 00:33:06,240

hi this is Rob Reiner from Anvil and

581

00:33:10,610 --> 00:33:07,320

you're listening to Jimmy

582

00:33:16,770 --> 00:33:12,909

what's up I'm Chris what up this is

583

00:33:32,450 --> 00:33:23,760

[Music]

584

00:33:37,669 --> 00:33:34,850

Welcome Back Fade to Black I am your

585

00:33:39,769 --> 00:33:37,679

host Jimmy church tonight Avi Loeb is

586

00:33:42,529 --> 00:33:39,779

here he's here to announce and discuss

587

00:33:45,169 --> 00:33:42,539

the Galileo project we'll get to all of

588

00:33:47,810 --> 00:33:45,179

that in just a few minutes but what is

589

00:33:49,490 --> 00:33:47,820

important to know is this Avi is a

590

00:33:52,430 --> 00:33:49,500

theoretical physicist who works on

591

00:33:55,130 --> 00:33:52,440

astrophysics and cosmology Professor

592

00:33:56,690 --> 00:33:55,140

Loeb is the Frank B Bear Junior

593

00:33:59,029 --> 00:33:56,700

professor of science at Harvard

594

00:34:01,009 --> 00:33:59,039

University he has been the longest

595

00:34:03,769 --> 00:34:01,019

serving chair of Harvard's Department of

596

00:34:06,889 --> 00:34:03,779

astronomy from 2011 all the way through

597

00:34:10,010 --> 00:34:06,899

2020 founding director of Harvard's

598

00:34:12,109 --> 00:34:10,020

black hole initiative since 2016 and

599

00:34:15,589 --> 00:34:12,119

director for the institute for Theory

600

00:34:18,109 --> 00:34:15,599

and computation all the way back to 2007

601
00:34:21,589 --> 00:34:18,119
within the Harvard Smithsonian Center

602
00:34:23,270 --> 00:34:21,599
for astrophysics he's also the author of

603
00:34:26,030 --> 00:34:23,280
one of my favorite books and

604
00:34:29,510 --> 00:34:26,040
best-selling extraterrestrial the first

605
00:34:31,069 --> 00:34:29,520
sign of intelligent life beyond Earth I

606
00:34:33,050 --> 00:34:31,079
would like to welcome back to fade to

607
00:34:36,589 --> 00:34:33,060
black the one and only right now a rock

608
00:34:39,230 --> 00:34:36,599
star Professor avilobe Avi good evening

609
00:34:41,089 --> 00:34:39,240
man how you doing I'm doing great thanks

610
00:34:44,810 --> 00:34:41,099
for having me and you know we've uh

611
00:34:46,550 --> 00:34:44,820
We've chatted quite a bit uh over uh the

612
00:34:49,129 --> 00:34:46,560
last couple of years and all of the

613
00:34:51,230 --> 00:34:49,139

shows have been great and what we're

614

00:34:55,430 --> 00:34:51,240

going to talk about tonight which is the

615

00:34:57,530 --> 00:34:55,440

Galileo project is taking things a huge

616

00:35:00,290 --> 00:34:57,540

step further we're going to do a pretty

617

00:35:03,170 --> 00:35:00,300

deep dive into this but let's go back to

618

00:35:06,890 --> 00:35:03,180

two years ago when you and I uh first uh

619

00:35:10,370 --> 00:35:06,900

talked about omumura did you see this

620

00:35:12,290 --> 00:35:10,380

kind of development happening this fast

621

00:35:14,569 --> 00:35:12,300

no not at all

622

00:35:16,550 --> 00:35:14,579

um back then I was not I didn't have an

623

00:35:18,829 --> 00:35:16,560

agenda that was just this object that

624

00:35:20,810 --> 00:35:18,839

appeared quite weird and strange and

625

00:35:23,569 --> 00:35:20,820

didn't look like a comet or an asteroid

626

00:35:25,670 --> 00:35:23,579

so I pretty much followed my nose and

627

00:35:28,609 --> 00:35:25,680

suggested maybe it's artificial in

628

00:35:30,710 --> 00:35:28,619

origin and and then I I noticed the

629

00:35:33,170 --> 00:35:30,720

response from the community the response

630

00:35:35,569 --> 00:35:33,180

from the public and decided to write my

631

00:35:37,910 --> 00:35:35,579

book six months ago it was published and

632

00:35:39,970 --> 00:35:37,920

uh became bestseller in many countries

633

00:35:44,210 --> 00:35:39,980

25 languages

634

00:35:46,609 --> 00:35:44,220

and then all together uh there was a

635

00:35:48,890 --> 00:35:46,619

great interest in the subject which is

636

00:35:52,069 --> 00:35:48,900

pushed out of the mainstream of science

637

00:35:54,349 --> 00:35:52,079

that's completely inappropriate and

638

00:35:56,150 --> 00:35:54,359

um I I said when my book came out I said

639

00:35:59,030 --> 00:35:56,160

that this is an opportunity for us to

640

00:36:01,130 --> 00:35:59,040

attract more funds to science to attract

641

00:36:03,829 --> 00:36:01,140

more Talent young talent to science

642

00:36:07,130 --> 00:36:03,839

because it's an exciting Frontier that

643

00:36:10,310 --> 00:36:07,140

should be in the mainstream and and I I

644

00:36:12,609 --> 00:36:10,320

I'm glad to say that this proposed

645

00:36:15,010 --> 00:36:12,619

puzzles that I made

646

00:36:19,010 --> 00:36:15,020

were confirmed

647

00:36:21,770 --> 00:36:19,020

over the past month because I had two

648

00:36:24,890 --> 00:36:21,780

multi-billionaires come to my porch at

649

00:36:27,170 --> 00:36:24,900

my home and and they asked me questions

650

00:36:29,569 --> 00:36:27,180

about my book and then ended up

651
00:36:31,730 --> 00:36:29,579
contributing funds to my research and

652
00:36:35,990 --> 00:36:31,740
all together within two weeks I got more

653
00:36:39,829 --> 00:36:36,000
about two million dollars and decided to

654
00:36:42,170 --> 00:36:39,839
establish a research project to assemble

655
00:36:45,010 --> 00:36:42,180
a team of exceptional scientists that

656
00:36:48,589 --> 00:36:45,020
mostly astronomers that will be engaged

657
00:36:50,510 --> 00:36:48,599
in both trying to understand the the

658
00:36:54,109 --> 00:36:50,520
nature of objects like the one

659
00:36:56,930 --> 00:36:54,119
discovered in 2017 or more that come

660
00:36:59,390 --> 00:36:56,940
from outside and find every now and then

661
00:37:01,849 --> 00:36:59,400
a plastic bottle among all the rocks

662
00:37:05,390 --> 00:37:01,859
that we find on a beach on on the beach

663
00:37:08,530 --> 00:37:05,400

of the solar system so to speak and then

664

00:37:11,089 --> 00:37:08,540

in addition of course the the was the

665

00:37:13,849 --> 00:37:11,099

report that came from the intelligence

666

00:37:15,550 --> 00:37:13,859

agents is delivered to Congress on the

667

00:37:18,589 --> 00:37:15,560

25th of June

668

00:37:21,230 --> 00:37:18,599

which basically triggered the my late

669

00:37:23,690 --> 00:37:21,240

latest round of interest because it

670

00:37:25,790 --> 00:37:23,700

reported about objects that are not

671

00:37:27,710 --> 00:37:25,800

identified whose nature is not known and

672

00:37:29,630 --> 00:37:27,720

it's an unusual situation where the

673

00:37:33,230 --> 00:37:29,640

government who which is the most

674

00:37:35,150 --> 00:37:33,240

conservative organization admits or at

675

00:37:37,849 --> 00:37:35,160

least some parts of the government admit

676

00:37:39,290 --> 00:37:37,859

that they are not doing their job the

677

00:37:41,270 --> 00:37:39,300

intelligence agencies are supposed to

678

00:37:44,030 --> 00:37:41,280

figure out the nature of objects in the

679

00:37:47,030 --> 00:37:44,040

sky and above the U.S and they haven't

680

00:37:51,109 --> 00:37:47,040

found that the explanation of what some

681

00:37:53,329 --> 00:37:51,119

objects are 143 of them and and you know

682

00:37:55,849 --> 00:37:53,339

if they suspected that it may be the

683

00:37:58,970 --> 00:37:55,859

another nation and the Chinese or the

684

00:38:01,010 --> 00:37:58,980

Russians they wouldn't come out so uh

685

00:38:03,109 --> 00:38:01,020

publicly about it they would try to

686

00:38:05,690 --> 00:38:03,119

figure it out so to me it implies that

687

00:38:07,910 --> 00:38:05,700

you know this is unusual and it's

688

00:38:10,250 --> 00:38:07,920

intriguing enough for the subject to

689

00:38:13,790 --> 00:38:10,260

move to the realm of science rather than

690

00:38:16,970 --> 00:38:13,800

stay in the as a talking point for

691

00:38:19,910 --> 00:38:16,980

politicians or or military personnel so

692

00:38:22,490 --> 00:38:19,920

at that point we announced last month a

693

00:38:24,170 --> 00:38:22,500

month after the report was delivered to

694

00:38:26,750 --> 00:38:24,180

Congress we announced the Galileo

695

00:38:29,030 --> 00:38:26,760

project because I I now have funding I

696

00:38:30,890 --> 00:38:29,040

don't need approval from anyone and we

697

00:38:33,230 --> 00:38:30,900

are very excited about it I have a team

698

00:38:35,810 --> 00:38:33,240

of exceptional scientists and we're

699

00:38:37,730 --> 00:38:35,820

trying to right now Define the

700

00:38:40,670 --> 00:38:37,740

instruments we want to purchase off the

701

00:38:41,870 --> 00:38:40,680

shelf and I'll be glad to answer any

702

00:38:45,770 --> 00:38:41,880

questions you have about this project

703

00:38:48,710 --> 00:38:45,780

well now speaking of funding I just want

704

00:38:52,370 --> 00:38:48,720

the audience to know uh this is uh not

705

00:38:55,370 --> 00:38:52,380

only a recognized project in a very

706

00:38:58,930 --> 00:38:55,380

visible project but it's also fast

707

00:39:01,790 --> 00:38:58,940

moving and right before our conversation

708

00:39:05,210 --> 00:39:01,800

uh started today which was a little

709

00:39:07,849 --> 00:39:05,220

delayed because you had an announcement

710

00:39:09,950 --> 00:39:07,859

for me which is going to be announced

711

00:39:11,109 --> 00:39:09,960

right now for the first time on this

712

00:39:15,650 --> 00:39:11,119

program program

713

00:39:19,790 --> 00:39:15,660

that Harvard has set up a Public Funding

714

00:39:21,890 --> 00:39:19,800

project for Galileo and now you didn't

715

00:39:23,930 --> 00:39:21,900

know how much can you tell us right now

716

00:39:25,490 --> 00:39:23,940

I know we've got the links and and

717

00:39:28,609 --> 00:39:25,500

things that are going out into social

718

00:39:31,069 --> 00:39:28,619

media uh for you but what can you tell

719

00:39:34,370 --> 00:39:31,079

us about that that's pretty cool news

720

00:39:36,950 --> 00:39:34,380

yeah so um we had to establish a channel

721

00:39:38,950 --> 00:39:36,960

by which the public anyone interested in

722

00:39:41,510 --> 00:39:38,960

funding the Galileo project

723

00:39:43,430 --> 00:39:41,520

will be able to contribute irrespective

724

00:39:45,710 --> 00:39:43,440

what the amount is

725

00:39:49,010 --> 00:39:45,720

um originally there was only a channel

726
00:39:51,589 --> 00:39:49,020
for very large donations but now there

727
00:39:54,290 --> 00:39:51,599
is a link where you can go and select

728
00:39:56,630 --> 00:39:54,300
the appropriate Choice related to my

729
00:39:59,210 --> 00:39:56,640
research fund which will fund the

730
00:40:03,470 --> 00:39:59,220
Galileo project even for small donations

731
00:40:05,690 --> 00:40:03,480
and we have a website at Harvard for the

732
00:40:09,349 --> 00:40:05,700
Galileo project and in that website

733
00:40:12,050 --> 00:40:09,359
there is an item saying fund us and

734
00:40:15,410 --> 00:40:12,060
that's where you can find the link

735
00:40:18,470 --> 00:40:15,420
and uh we've got that up right now in

736
00:40:21,349 --> 00:40:18,480
social media so all of us uh in this

737
00:40:22,970 --> 00:40:21,359
community I encourage you to just uh

738
00:40:25,790 --> 00:40:22,980

follow the link that we have up there

739

00:40:29,930 --> 00:40:25,800

and and do what you can this is a very

740

00:40:32,569 --> 00:40:29,940

very important not only project but the

741

00:40:36,230 --> 00:40:32,579

timing of it the timing with everything

742

00:40:38,030 --> 00:40:36,240

else that is going on Avi uh we have of

743

00:40:40,130 --> 00:40:38,040

course the Department of Defense we have

744

00:40:41,750 --> 00:40:40,140

the Senate intelligence committee we

745

00:40:45,589 --> 00:40:41,760

have all of the programming the mass

746

00:40:47,690 --> 00:40:45,599

media uh this subject of life in the

747

00:40:50,690 --> 00:40:47,700

universe has never been in the public

748

00:40:53,450 --> 00:40:50,700

eye like this before and now we have the

749

00:40:56,390 --> 00:40:53,460

Galileo project it's pretty exciting

750

00:41:00,109 --> 00:40:56,400

it is very exciting and uh the

751
00:41:02,089 --> 00:41:00,119
importance of trying to examine it

752
00:41:04,010 --> 00:41:02,099
scientifically is that you know we will

753
00:41:06,589 --> 00:41:04,020
have full control over the instruments

754
00:41:09,410 --> 00:41:06,599
and our data will be open to the public

755
00:41:11,450 --> 00:41:09,420
it will not be classified or hidden and

756
00:41:13,730 --> 00:41:11,460
so everyone can see how the process of

757
00:41:15,890 --> 00:41:13,740
science is done we will collect new data

758
00:41:19,490 --> 00:41:15,900
with the state-of-the-art instruments

759
00:41:22,609 --> 00:41:19,500
and make it available and

760
00:41:28,450 --> 00:41:25,190
the image of a UAP of an unidentified

761
00:41:30,950 --> 00:41:28,460
aerial phenomena or of an object like

762
00:41:33,230 --> 00:41:30,960
because the picture is worth a thousand

763
00:41:35,150 --> 00:41:33,240

words they say but in my case a picture

764

00:41:37,190 --> 00:41:35,160

is worth 66 000 words the number of

765

00:41:39,829 --> 00:41:37,200

words in my book I would need to write a

766

00:41:43,970 --> 00:41:39,839

book if I had an image right right now

767

00:41:46,910 --> 00:41:43,980

now let's get down to some details here

768

00:41:50,690 --> 00:41:46,920

um oh I I wanted to say this it feels

769

00:41:55,370 --> 00:41:50,700

like we are at an Arthur C Clarke

770

00:42:00,050 --> 00:41:55,380

Stanley Kubrick moment or something that

771

00:42:02,870 --> 00:42:00,060

is constructed outside of our planet is

772

00:42:05,390 --> 00:42:02,880

hopefully going to be discovered we are

773

00:42:08,210 --> 00:42:05,400

almost in a science fiction movie except

774

00:42:12,050 --> 00:42:08,220

this is for Real

775

00:42:14,870 --> 00:42:12,060

uh yeah I mean if we find something if

776

00:42:16,450 --> 00:42:14,880

we did you know what for example in the

777

00:42:20,329 --> 00:42:16,460

context of

778

00:42:23,210 --> 00:42:20,339

uh astronomers argue well it looks like

779

00:42:25,130 --> 00:42:23,220

a very strange Rock uh something we've

780

00:42:27,770 --> 00:42:25,140

never seen before maybe a nitrogen

781

00:42:29,390 --> 00:42:27,780

Iceberg maybe a hydrogen Iceberg if we

782

00:42:31,670 --> 00:42:29,400

take a closer photograph and see that

783

00:42:33,410 --> 00:42:31,680

it's not a rock not an unusual Rock it's

784

00:42:36,530 --> 00:42:33,420

actually artificial it's a piece of

785

00:42:39,109 --> 00:42:36,540

technology it has buttons on it then the

786

00:42:42,349 --> 00:42:39,119

experience will be similar to you know

787

00:42:45,589 --> 00:42:42,359

caveman finding a cell phone and then

788

00:42:47,170 --> 00:42:45,599

the cavemen initially assumes oh it's

789

00:42:49,910 --> 00:42:47,180

just a Shiny Rock

790

00:42:53,270 --> 00:42:49,920

never seen before but but then when the

791

00:42:56,510 --> 00:42:53,280

cavemen starts pressing buttons uh he or

792

00:42:58,910 --> 00:42:56,520

she recognize that you know one button

793

00:43:02,089 --> 00:42:58,920

can record the his or her voice the

794

00:43:04,010 --> 00:43:02,099

second can record the photographing uh

795

00:43:06,230 --> 00:43:04,020

then of course it means that it's it's

796

00:43:07,970 --> 00:43:06,240

not a rock it's something else and in

797

00:43:09,890 --> 00:43:07,980

pretty much the same way we can have

798

00:43:11,870 --> 00:43:09,900

this same learning experience where

799

00:43:13,609 --> 00:43:11,880

astronomers immediately said oh it's

800

00:43:15,710 --> 00:43:13,619

just an unusual Rock we've never seen

801
00:43:17,569 --> 00:43:15,720
any Rock like it before but it's still a

802
00:43:19,490 --> 00:43:17,579
rock it's natural because that's your

803
00:43:21,109 --> 00:43:19,500
natural tendency to say that whatever

804
00:43:23,870 --> 00:43:21,119
you see is something you've seen before

805
00:43:26,569 --> 00:43:23,880
you know that it's nothing new uh but my

806
00:43:29,030 --> 00:43:26,579
point is if it looks sufficiently weird

807
00:43:31,609 --> 00:43:29,040
we should get more data and that's what

808
00:43:33,349 --> 00:43:31,619
the Galileo project is all about now uh

809
00:43:36,109 --> 00:43:33,359
let's talk about the team that you've

810
00:43:39,530 --> 00:43:36,119
assembled and the reason why I want to

811
00:43:41,930 --> 00:43:39,540
actually start there do you feel that in

812
00:43:43,670 --> 00:43:41,940
your community uh you know teachers and

813
00:43:47,210 --> 00:43:43,680

professors astronomers professionals

814

00:43:49,910 --> 00:43:47,220

that somebody had to be first right and

815

00:43:52,250 --> 00:43:49,920

and you are and then all of a sudden

816

00:43:55,430 --> 00:43:52,260

everybody is willing to get on board but

817

00:43:57,770 --> 00:43:55,440

somebody somebody had to reach out uh

818

00:44:00,589 --> 00:43:57,780

first and and you were that guy

819

00:44:03,290 --> 00:44:00,599

yeah I mean I've I've had that

820

00:44:06,290 --> 00:44:03,300

experience before that I worked on a

821

00:44:07,730 --> 00:44:06,300

subject before others joined in and uh

822

00:44:09,530 --> 00:44:07,740

it taught me an important lesson

823

00:44:11,710 --> 00:44:09,540

initially I didn't have the

824

00:44:15,910 --> 00:44:11,720

self-confidence so when people would

825

00:44:18,530 --> 00:44:15,920

dismiss an idea that I had I would

826

00:44:21,589 --> 00:44:18,540

hesitate and not pursue it and then I

827

00:44:23,870 --> 00:44:21,599

realized with that others took the idea

828

00:44:26,089 --> 00:44:23,880

seriously and they gained all the

829

00:44:29,210 --> 00:44:26,099

benefits from adopting it the idea that

830

00:44:31,010 --> 00:44:29,220

I proposed and after a few situations

831

00:44:33,290 --> 00:44:31,020

like that I said the hell with it you

832

00:44:35,089 --> 00:44:33,300

know I don't give a damn about what

833

00:44:37,849 --> 00:44:35,099

people said the time that I'm proposing

834

00:44:40,130 --> 00:44:37,859

a new idea I will just advocate for

835

00:44:42,710 --> 00:44:40,140

something that sounds right to me and

836

00:44:45,170 --> 00:44:42,720

you know eventually the audience will

837

00:44:47,089 --> 00:44:45,180

join me I mean and and that's what I

838

00:44:49,190 --> 00:44:47,099

said to the research team of the Galileo

839

00:44:51,290 --> 00:44:49,200

project I said keep your eyes on the

840

00:44:52,730 --> 00:44:51,300

ball not on the audience and of course

841

00:44:54,950 --> 00:44:52,740

there are lots of people looking at the

842

00:44:57,710 --> 00:44:54,960

audience all the time you know all kinds

843

00:45:01,550 --> 00:44:57,720

of commentators people that are publicly

844

00:45:03,109 --> 00:45:01,560

known and you know public they publicize

845

00:45:05,569 --> 00:45:03,119

science there are lots of these people

846

00:45:07,010 --> 00:45:05,579

that are highly popular because they

847

00:45:08,690 --> 00:45:07,020

publicize science but if you look at

848

00:45:11,930 --> 00:45:08,700

what they they never wrote a scientific

849

00:45:13,550 --> 00:45:11,940

paper in the last decade and they look

850

00:45:15,290 --> 00:45:13,560

at the audience all the time they want

851
00:45:17,750 --> 00:45:15,300
to maximize the number of likes they get

852
00:45:20,150 --> 00:45:17,760
on Twitter I don't care care less about

853
00:45:22,910 --> 00:45:20,160
that I just want to figure out you know

854
00:45:24,710 --> 00:45:22,920
if there there is equipment out there in

855
00:45:26,569 --> 00:45:24,720
space that may indicate that we are not

856
00:45:28,910 --> 00:45:26,579
the smartest kid on the Block you know

857
00:45:31,730 --> 00:45:28,920
that's what I care now how did you

858
00:45:34,309 --> 00:45:31,740
assemble the team did you reach out or

859
00:45:37,430 --> 00:45:34,319
did they approach you

860
00:45:40,069 --> 00:45:37,440
oh no uh initially once I had the funds

861
00:45:42,170 --> 00:45:40,079
I started reaching out to you know the

862
00:45:45,530 --> 00:45:42,180
experts people that are highly qualified

863
00:45:50,630 --> 00:45:45,540

that I trust and it was really very

864

00:45:53,750 --> 00:45:50,640

rewarding to get uh uh yes from them uh

865

00:45:55,069 --> 00:45:53,760

from some of them that it wasn't clear

866

00:45:56,870 --> 00:45:55,079

to me that they would agree because

867

00:45:59,030 --> 00:45:56,880

there are some risks involved you know

868

00:46:02,510 --> 00:45:59,040

we might not find anything and and

869

00:46:05,270 --> 00:46:02,520

moreover there is a stigma attached to

870

00:46:07,309 --> 00:46:05,280

this subject and a ridicule and the

871

00:46:10,550 --> 00:46:07,319

giggle Factor all kinds of things that

872

00:46:14,150 --> 00:46:10,560

were you know made this subject a taboo

873

00:46:17,390 --> 00:46:14,160

and gladly the young people that I

874

00:46:20,210 --> 00:46:17,400

approached that are really excellent in

875

00:46:23,170 --> 00:46:20,220

terms of their professional abilities uh

876
00:46:24,730 --> 00:46:23,180
agreed to join and we have a team of 20

877
00:46:29,329 --> 00:46:24,740
scientists

878
00:46:32,690 --> 00:46:29,339
supplemented by about 20 advisors and

879
00:46:33,250 --> 00:46:32,700
then uh about 30 or so

880
00:46:36,050 --> 00:46:33,260
um

881
00:46:39,050 --> 00:46:36,060
affiliate creates all together about 70

882
00:46:41,150 --> 00:46:39,060
and uh you know I I feel very strongly

883
00:46:43,370 --> 00:46:41,160
that we can fulfill the mission the only

884
00:46:45,890 --> 00:46:43,380
thing missing is right now we have about

885
00:46:48,470 --> 00:46:45,900
two million dollars and that would allow

886
00:46:50,870 --> 00:46:48,480
us to perhaps build the 10 telescope

887
00:46:52,790 --> 00:46:50,880
systems but we really need a hundred

888
00:46:55,910 --> 00:46:52,800

based on the estimates that we've made

889

00:46:57,890 --> 00:46:55,920

in order to see enough of the sky so we

890

00:47:00,109 --> 00:46:57,900

need the funding at a level that is 10

891

00:47:02,210 --> 00:47:00,119

times bigger than we currently have I

892

00:47:04,609 --> 00:47:02,220

mean we can demonstrate that we can get

893

00:47:06,950 --> 00:47:04,619

good data but it would be really good if

894

00:47:09,650 --> 00:47:06,960

we had the tens of millions instead of

895

00:47:12,530 --> 00:47:09,660

just a couple of millions in order to

896

00:47:15,470 --> 00:47:12,540

fulfill the promise of this project and

897

00:47:18,349 --> 00:47:15,480

my hope is with with this crowdfunding

898

00:47:21,410 --> 00:47:18,359

and other wealthy individuals that might

899

00:47:23,630 --> 00:47:21,420

come forward that we will get there now

900

00:47:26,870 --> 00:47:23,640

let's talk about uh some of the

901
00:47:30,290 --> 00:47:26,880
technical aspects of this

902
00:47:33,589 --> 00:47:30,300
um will the telescopes mainly be

903
00:47:36,530 --> 00:47:33,599
terrestrial will you have the ability to

904
00:47:39,170 --> 00:47:36,540
maybe tap in into the James Webb and

905
00:47:42,170 --> 00:47:39,180
test systems

906
00:47:44,089 --> 00:47:42,180
um yeah so what we are dealing with for

907
00:47:46,549 --> 00:47:44,099
the UAP for the unidentified area

908
00:47:48,950 --> 00:47:46,559
phenomena uh we're talking about

909
00:47:50,750 --> 00:47:48,960
telescopes telescope systems that will

910
00:47:53,510 --> 00:47:50,760
be on the ground the environment in many

911
00:47:55,430 --> 00:47:53,520
locations so if we have tens of them or

912
00:47:57,470 --> 00:47:55,440
hundreds of them we will spread them

913
00:47:59,450 --> 00:47:57,480

around the globe and and try to monitor

914

00:48:01,730 --> 00:47:59,460

the sky but basically you're taking a

915

00:48:03,170 --> 00:48:01,740

video of the sky in many locations

916

00:48:05,990 --> 00:48:03,180

you're trying to look

917

00:48:08,150 --> 00:48:06,000

for something unusual and you know we

918

00:48:10,190 --> 00:48:08,160

are not interested in in Birds when we

919

00:48:12,650 --> 00:48:10,200

see a bird we will track it and realize

920

00:48:14,270 --> 00:48:12,660

it's a bird and then dismiss it in much

921

00:48:16,670 --> 00:48:14,280

of the same way I don't care about an

922

00:48:18,530 --> 00:48:16,680

object generate that has made in China

923

00:48:20,630 --> 00:48:18,540

on it or made in Russia I don't really

924

00:48:22,970 --> 00:48:20,640

care about those there's boring

925

00:48:25,130 --> 00:48:22,980

scientifically as birds are for for this

926
00:48:27,710 --> 00:48:25,140
purpose sure of course there are

927
00:48:30,049 --> 00:48:27,720
residents of Washington DC that would be

928
00:48:31,730 --> 00:48:30,059
very interested in such data and I you

929
00:48:34,790 --> 00:48:31,740
know as far as I'm concerned I don't

930
00:48:37,609 --> 00:48:34,800
care about human-made objects

931
00:48:40,370 --> 00:48:37,619
um and and what we really care about are

932
00:48:43,130 --> 00:48:40,380
unusual things and this could be either

933
00:48:45,170 --> 00:48:43,140
unusual phenomena in the atmosphere of

934
00:48:46,870 --> 00:48:45,180
Earth or

935
00:48:49,010 --> 00:48:46,880
um some objects from another

936
00:48:51,589 --> 00:48:49,020
technological civilization so that's

937
00:48:53,870 --> 00:48:51,599
what we will try to see if we if we

938
00:48:57,309 --> 00:48:53,880

identify any of those and then in

939

00:48:59,809 --> 00:48:57,319

addition to the UAP we will of course

940

00:49:04,010 --> 00:48:59,819

develop software that will identify

941

00:49:07,970 --> 00:49:04,020

objects like in the future and and that

942

00:49:11,630 --> 00:49:07,980

will include information from telescopes

943

00:49:14,630 --> 00:49:11,640

in space so for you mentioned the the

944

00:49:16,670 --> 00:49:14,640

James Webb Space Telescope but uh we

945

00:49:19,569 --> 00:49:16,680

hope to use others that will be in space

946

00:49:22,730 --> 00:49:19,579

in the future and then

947

00:49:26,089 --> 00:49:22,740

uh also telescopes from the ground that

948

00:49:29,390 --> 00:49:26,099

like for example the pan star telescope

949

00:49:30,589 --> 00:49:29,400

system that discovered the omuamua and

950

00:49:32,329 --> 00:49:30,599

there would be the Vera Rubin

951
00:49:34,910 --> 00:49:32,339
Observatory that will monitor the sky

952
00:49:37,309 --> 00:49:34,920
with much greater sensitivity and then

953
00:49:39,829 --> 00:49:37,319
the idea is if we find an object on its

954
00:49:42,349 --> 00:49:39,839
approach to us like principle develop a

955
00:49:44,690 --> 00:49:42,359
space mission that will intercept its

956
00:49:47,030 --> 00:49:44,700
trajectory with a camera that will take

957
00:49:50,690 --> 00:49:47,040
a close-up photograph just like those

958
00:49:53,390 --> 00:49:50,700
Cyrus Rex Mission did for the asteroid

959
00:49:56,150 --> 00:49:53,400
bennu it actually landed on it and will

960
00:49:59,210 --> 00:49:56,160
bring a sample back to Earth in 2023 so

961
00:50:01,849 --> 00:49:59,220
just imagine seeing an object that looks

962
00:50:03,589 --> 00:50:01,859
artificial and then landing on it and

963
00:50:05,510 --> 00:50:03,599

pressing the buttons you know know that

964

00:50:07,190 --> 00:50:05,520

that would be remarkable now I mean

965

00:50:09,589 --> 00:50:07,200

indeed it will make science fiction

966

00:50:11,390 --> 00:50:09,599

appear a science yeah absolutely

967

00:50:12,470 --> 00:50:11,400

absolutely

968

00:50:15,589 --> 00:50:12,480

um now

969

00:50:19,190 --> 00:50:15,599

is there going to be a Line in the Sand

970

00:50:20,109 --> 00:50:19,200

if you will between your self and your

971

00:50:24,589 --> 00:50:20,119

project

972

00:50:27,170 --> 00:50:24,599

and the government if you make uh some

973

00:50:29,150 --> 00:50:27,180

astounding Discovery will you have the

974

00:50:32,750 --> 00:50:29,160

freedom and the ability to take it

975

00:50:36,349 --> 00:50:32,760

straight to the media and discuss it and

976
00:50:37,970 --> 00:50:36,359
not have it clamp down and and released

977
00:50:40,790 --> 00:50:37,980
by the government

978
00:50:42,650 --> 00:50:40,800
no I mean the the government doesn't Own

979
00:50:44,569 --> 00:50:42,660
the Sky you know astronomers look at the

980
00:50:46,849 --> 00:50:44,579
sky all the time of course there are

981
00:50:49,309 --> 00:50:46,859
locations near Military facilities and

982
00:50:51,650 --> 00:50:49,319
nuclear sites where uh that are

983
00:50:53,690 --> 00:50:51,660
sensitive but the most of the sky is not

984
00:50:55,309 --> 00:50:53,700
classified the government doesn't Own

985
00:50:57,470 --> 00:50:55,319
the Sky you know you have astronomers

986
00:50:59,809 --> 00:50:57,480
looking at the sky all the time so

987
00:51:02,630 --> 00:50:59,819
instead of astronomers looking at very

988
00:51:04,849 --> 00:51:02,640

distant objects we will look at nearby

989

00:51:06,890 --> 00:51:04,859

objects that's the only difference I was

990

00:51:09,290 --> 00:51:06,900

asked by the administration at Harvard

991

00:51:11,990 --> 00:51:09,300

whether this is part of my research as

992

00:51:13,609 --> 00:51:12,000

an astronomer because if it's not I had

993

00:51:15,829 --> 00:51:13,619

to justify what I'm doing you know

994

00:51:18,049 --> 00:51:15,839

because then it's outside of my research

995

00:51:21,710 --> 00:51:18,059

as an astronomer sure and I said yes

996

00:51:24,829 --> 00:51:21,720

it's exactly the same as I usually do

997

00:51:28,069 --> 00:51:24,839

I'm just you trying to interpret data

998

00:51:30,170 --> 00:51:28,079

from collected by task cops and the only

999

00:51:32,750 --> 00:51:30,180

difference is that usually telescopes

1000

00:51:35,030 --> 00:51:32,760

look at very distant objects and here

1001
00:51:37,609 --> 00:51:35,040
our telescopes we look at nearby objects

1002
00:51:40,730 --> 00:51:37,619
but when you Define astronomy there is

1003
00:51:43,190 --> 00:51:40,740
no reference to how close an object can

1004
00:51:44,809 --> 00:51:43,200
be and if we find an object that came

1005
00:51:47,630 --> 00:51:44,819
from an extraterrestrial technology

1006
00:51:50,329 --> 00:51:47,640
technological civilization then

1007
00:51:53,150 --> 00:51:50,339
obviously it made its way here from very

1008
00:51:55,190 --> 00:51:53,160
far away uh it's definitely part of

1009
00:51:57,530 --> 00:51:55,200
astronomy and I think this subject

1010
00:52:00,230 --> 00:51:57,540
should be regarded as the mainstream

1011
00:52:02,930 --> 00:52:00,240
because it's a question that excites the

1012
00:52:05,930 --> 00:52:02,940
public a question uh that the public

1013
00:52:07,870 --> 00:52:05,940

will be happy to fund both privately and

1014

00:52:10,870 --> 00:52:07,880

through

1015

00:52:13,849 --> 00:52:10,880

grants that are given to to astronomy

1016

00:52:16,549 --> 00:52:13,859

and then and also it's a very exciting

1017

00:52:20,450 --> 00:52:16,559

question that um is is very important

1018

00:52:21,730 --> 00:52:20,460

you know if we find such equipment it

1019

00:52:24,410 --> 00:52:21,740

will change

1020

00:52:26,089 --> 00:52:24,420

it will impact our daily lives it will

1021

00:52:27,650 --> 00:52:26,099

change our perception about our place in

1022

00:52:30,349 --> 00:52:27,660

the universe our relations with each

1023

00:52:32,750 --> 00:52:30,359

other our religious beliefs and so forth

1024

00:52:34,970 --> 00:52:32,760

so how can we shy away from this

1025

00:52:37,609 --> 00:52:34,980

question that's what always looked to me

1026
00:52:40,670 --> 00:52:37,619
very strange that there is ridicule and

1027
00:52:45,109 --> 00:52:40,680
this subject is pushed aside especially

1028
00:52:47,870 --> 00:52:45,119
by scientists now so we always look back

1029
00:52:49,930 --> 00:52:47,880
to you know the movie contact right and

1030
00:52:53,630 --> 00:52:49,940
at that moment of that Discovery

1031
00:52:57,109 --> 00:52:53,640
everybody's excited and then some suits

1032
00:52:59,089 --> 00:52:57,119
come in from Washington DC and say okay

1033
00:53:01,910 --> 00:52:59,099
we're wrestling control of this project

1034
00:53:04,430 --> 00:53:01,920
now we need to control this data there

1035
00:53:06,650 --> 00:53:04,440
is other implications involved I don't

1036
00:53:08,990 --> 00:53:06,660
think there is any issue look if if that

1037
00:53:11,990 --> 00:53:09,000
if what we find has nothing to do with

1038
00:53:14,470 --> 00:53:12,000

the nation on Earth okay

1039

00:53:19,250 --> 00:53:14,480

um there is no way that the government

1040

00:53:22,370 --> 00:53:19,260

could limit that knowledge because it's

1041

00:53:24,650 --> 00:53:22,380

not a national security issue that has

1042

00:53:27,770 --> 00:53:24,660

to do with the US versus other nations

1043

00:53:31,010 --> 00:53:27,780

it's it's an issue that the entire human

1044

00:53:33,109 --> 00:53:31,020

race the entire human species has to

1045

00:53:36,049 --> 00:53:33,119

worry about so it's without boundaries

1046

00:53:38,089 --> 00:53:36,059

and of course we need to know where we

1047

00:53:40,430 --> 00:53:38,099

are you know it's if you were to block

1048

00:53:41,569 --> 00:53:40,440

the information it's just like saying

1049

00:53:43,970 --> 00:53:41,579

you're not allowed to look through the

1050

00:53:46,910 --> 00:53:43,980

window of your home to check if you have

1051
00:53:48,470 --> 00:53:46,920
neighbors the point is of course you

1052
00:53:51,049 --> 00:53:48,480
might argue we don't have neighbors if

1053
00:53:52,670 --> 00:53:51,059
you never look but that's not a good

1054
00:53:54,710 --> 00:53:52,680
approach because you want to know

1055
00:53:56,510 --> 00:53:54,720
whether you have neighbors it's so the

1056
00:53:58,010 --> 00:53:56,520
government cannot tell you not to check

1057
00:53:59,630 --> 00:53:58,020
whether you have neighbors you know

1058
00:54:03,290 --> 00:53:59,640
that's that that we are talking about

1059
00:54:06,410 --> 00:54:03,300
things outside of Earth very far away uh

1060
00:54:09,049 --> 00:54:06,420
and we we need to know as as people you

1061
00:54:12,650 --> 00:54:09,059
know throughout the the entire world we

1062
00:54:14,390 --> 00:54:12,660
need to know where we are uh you know on

1063
00:54:16,430 --> 00:54:14,400

in the galaxy in the Milky Way galaxy

1064

00:54:18,410 --> 00:54:16,440

it's it makes little sense for the US

1065

00:54:20,809 --> 00:54:18,420

government to limit that knowledge I'm

1066

00:54:22,910 --> 00:54:20,819

so glad you're on our team I mean that

1067

00:54:26,089 --> 00:54:22,920

it can't be said any better than that

1068

00:54:27,950 --> 00:54:26,099

and before we get to the break uh we're

1069

00:54:29,390 --> 00:54:27,960

just a couple of minutes away

1070

00:54:33,710 --> 00:54:29,400

um is this

1071

00:54:36,950 --> 00:54:33,720

do you feel that the world now not only

1072

00:54:40,250 --> 00:54:36,960

is ready but can handle this kind of

1073

00:54:42,230 --> 00:54:40,260

news as you know in the past it was

1074

00:54:45,049 --> 00:54:42,240

always framed that we couldn't handle it

1075

00:54:47,329 --> 00:54:45,059

right that things would go uh just go

1076
00:54:49,789 --> 00:54:47,339
awry and go crazy on Earth are we ready

1077
00:54:52,849 --> 00:54:49,799
as a planet

1078
00:54:55,730 --> 00:54:52,859
um no I think the main problem is people

1079
00:54:58,190 --> 00:54:55,740
are not willing to engage in this

1080
00:55:00,829 --> 00:54:58,200
discussion they're basically arguing

1081
00:55:02,690 --> 00:55:00,839
they know the answer in advance that

1082
00:55:04,609 --> 00:55:02,700
they know that you know business as

1083
00:55:06,650 --> 00:55:04,619
usual everything that appears in the sky

1084
00:55:08,150 --> 00:55:06,660
must be rocks of the types that we have

1085
00:55:10,370 --> 00:55:08,160
seen and I'm talking here about the

1086
00:55:12,170 --> 00:55:10,380
scientific Community because you know if

1087
00:55:14,510 --> 00:55:12,180
the scientific Community was open-minded

1088
00:55:17,690 --> 00:55:14,520

it would have invested funds in this

1089

00:55:20,390 --> 00:55:17,700

search and so that's the stumbling block

1090

00:55:22,670 --> 00:55:20,400

right now the public is excited about it

1091

00:55:25,069 --> 00:55:22,680

the scientific Community was blocking it

1092

00:55:27,410 --> 00:55:25,079

and I'm trying to change this landscape

1093

00:55:30,230 --> 00:55:27,420

and make it more legitimate and

1094

00:55:31,910 --> 00:55:30,240

appropriate for this subject to be in

1095

00:55:33,349 --> 00:55:31,920

the mainstream of science because I

1096

00:55:35,690 --> 00:55:33,359

think it will be very exciting for all

1097

00:55:38,030 --> 00:55:35,700

of us not just for scientists but also

1098

00:55:40,309 --> 00:55:38,040

for the public more people will get

1099

00:55:42,049 --> 00:55:40,319

engaged and suppose we find a positive

1100

00:55:43,849 --> 00:55:42,059

answer that there you know there is a

1101
00:55:46,849 --> 00:55:43,859
smarter kid on the Block you know we can

1102
00:55:48,890 --> 00:55:46,859
learn from that kid we can incorporate

1103
00:55:51,230 --> 00:55:48,900
the technologies that we discover it's

1104
00:55:53,450 --> 00:55:51,240
really very exciting search much more so

1105
00:55:56,089 --> 00:55:53,460
than searching for the nature of dark

1106
00:55:57,890 --> 00:55:56,099
matter which we've been engaged in for

1107
00:56:00,470 --> 00:55:57,900
four decades invested hundreds of

1108
00:56:01,970 --> 00:56:00,480
millions of dollars and didn't find

1109
00:56:03,890 --> 00:56:01,980
anything you know we're still searching

1110
00:56:05,569 --> 00:56:03,900
in the dark so I'm saying you know if

1111
00:56:07,370 --> 00:56:05,579
we're searching in the dark for the dark

1112
00:56:10,130 --> 00:56:07,380
matter why not search

1113
00:56:12,650 --> 00:56:10,140

also for things like us I mean that that

1114

00:56:17,270 --> 00:56:12,660

sounds to me like common sense and we

1115

00:56:17,280 --> 00:56:21,589

what do you think

1116

00:56:28,270 --> 00:56:24,890

take me to your leader right it's

1117

00:56:31,370 --> 00:56:28,280

where's Avi what

1118

00:56:33,789 --> 00:56:31,380

he asked me for my leader I would direct

1119

00:56:37,370 --> 00:56:33,799

them to my wife

1120

00:56:40,250 --> 00:56:37,380

but actually my wife said

1121

00:56:42,410 --> 00:56:40,260

um that if they land in our backyard and

1122

00:56:45,049 --> 00:56:42,420

ask me to get into the spaceship she

1123

00:56:46,970 --> 00:56:45,059

want wants me she asks me to do two

1124

00:56:49,490 --> 00:56:46,980

things one to make sure that they leave

1125

00:56:52,010 --> 00:56:49,500

the car keys with her yep and second

1126
00:56:55,309 --> 00:56:52,020
that I asked them not to ruin the loan

1127
00:56:57,770 --> 00:56:55,319
when they lift off consider for sure but

1128
00:56:59,870 --> 00:56:57,780
let's take it yeah let's take our break

1129
00:57:01,549 --> 00:56:59,880
we got to get a break in this is Fade to

1130
00:57:04,910 --> 00:57:01,559
Black I'm your host Jimmy church tonight

1131
00:57:07,069 --> 00:57:04,920
Professor Avi lobe we are discussing the

1132
00:57:08,870 --> 00:57:07,079
Galileo project all of that and much

1133
00:57:11,350 --> 00:57:08,880
more when we come back after this short

1134
00:57:26,930 --> 00:57:11,360
break this is Fade to Black

1135
00:57:32,750 --> 00:57:29,630
this is baby black with Jimmy Church on

1136
00:57:36,710 --> 00:57:32,760
the game changer radio network and kgra

1137
00:57:39,170 --> 00:57:36,720
the global radio Alliance

1138
00:57:42,470 --> 00:57:39,180

this is kgra digital broadcasting

1139

00:57:44,890 --> 00:57:42,480

station Salt Lake City Utah Van Buren

1140

00:57:49,849 --> 00:57:47,710

this is Billy Carson with

1141

00:57:52,549 --> 00:57:49,859

forbiddenknowledge.tv Forbidden

1142

00:57:55,370 --> 00:57:52,559

Knowledge TV has just reached its one

1143

00:57:57,530 --> 00:57:55,380

year anniversary that's right one year

1144

00:58:00,349 --> 00:57:57,540

and as a show of appreciation we are

1145

00:58:01,809 --> 00:58:00,359

giving all new subscribers a free 30-day

1146

00:58:04,849 --> 00:58:01,819

trial of

1147

00:58:06,970 --> 00:58:04,859

forbiddenknowledge.tv that's 30 days to

1148

00:58:09,589 --> 00:58:06,980

binge watch thousands of movies

1149

00:58:12,650 --> 00:58:09,599

documentaries conferences workshops

1150

00:58:15,609 --> 00:58:12,660

lectures yoga classes meditation courses

1151
00:58:17,390 --> 00:58:15,619
and so much more so log on to

1152
00:58:19,910 --> 00:58:17,400
forbiddenknowledge.tv from your computer

1153
00:58:24,190 --> 00:58:19,920
or mobile device or get the Forbidden

1154
00:58:27,410 --> 00:58:24,200
Knowledge TV app on Apple TV Roku Amazon

1155
00:58:30,950 --> 00:58:27,420
iTunes or Google play today and use

1156
00:58:33,309 --> 00:58:30,960
coupon code 30 days free that's coupon

1157
00:58:37,930 --> 00:58:33,319
code 30 days free on

1158
00:58:42,010 --> 00:58:40,730
because you never got that pony you

1159
00:58:45,950 --> 00:58:42,020
always wanted

1160
00:58:53,170 --> 00:58:45,960
damn it Jimmy church and Fade to Black

1161
00:58:59,210 --> 00:58:57,170
listen I know and you know that you've

1162
00:59:01,549 --> 00:58:59,220
always wanted your first crystal skull

1163
00:59:03,950 --> 00:59:01,559

or maybe you're a collector just like me

1164

00:59:06,829 --> 00:59:03,960

but you just don't know where to go to

1165

00:59:08,589 --> 00:59:06,839

find the real thing then I met Carolyn

1166

00:59:11,630 --> 00:59:08,599

Ford over at Einstein the

1167

00:59:13,849 --> 00:59:11,640

crystalskull.com Carolyn is the guardian

1168

00:59:16,549 --> 00:59:13,859

of Einstein one of the most respected

1169

00:59:18,530 --> 00:59:16,559

ancient crystal skulls in the world all

1170

00:59:20,569 --> 00:59:18,540

of her unique skulls have been imprinted

1171

00:59:22,670 --> 00:59:20,579

sitting with Einstein in his sacred

1172

00:59:25,490 --> 00:59:22,680

Lodge and our car from the finest

1173

00:59:27,650 --> 00:59:25,500

gemstone and materials imprinting is the

1174

00:59:30,609 --> 00:59:27,660

process of receiving the ancient wisdom

1175

00:59:33,950 --> 00:59:30,619

from the master skull or Master computer

1176
00:59:35,510 --> 00:59:33,960
Einstein the ancient Crystal Skull to

1177
00:59:37,849 --> 00:59:35,520
see Carolyn's current collection of

1178
00:59:40,789 --> 00:59:37,859
crystal skulls just visit her store at

1179
00:59:43,069 --> 00:59:40,799
Einstein the crystalskull.com or click

1180
00:59:45,470 --> 00:59:43,079
on the banner over on our site don't

1181
00:59:48,109 --> 00:59:45,480
forget to use the promo code Jimmy at

1182
00:59:51,650 --> 00:59:48,119
checkout to receive 10 off of your order

1183
00:59:53,690 --> 00:59:51,660
today that's promo code Jimmy finding

1184
00:59:56,150 --> 00:59:53,700
your first our next Crystal Skull is

1185
00:59:59,450 --> 00:59:56,160
easy just visit Einstein the

1186
01:00:04,609 --> 01:00:01,789
when you take the beans from Central

1187
01:00:07,010 --> 01:00:04,619
America with dashes of Indonesian and

1188
01:00:10,010 --> 01:00:07,020

African mixed in and then roasted to the

1189

01:00:13,430 --> 01:00:10,020

dark side of Fade to Black you create

1190

01:00:16,130 --> 01:00:13,440

the ultimate Brew of Fringe introducing

1191

01:00:19,370 --> 01:00:16,140

the Fade to Black blend from River Moon

1192

01:00:21,950 --> 01:00:19,380

coffee yes River Moon's darkest

1193

01:00:24,410 --> 01:00:21,960

customized roast was created for the

1194

01:00:27,230 --> 01:00:24,420

love of Fade to Black

1195

01:00:29,870 --> 01:00:27,240

the Alchemy of masterful roasting and

1196

01:00:33,349 --> 01:00:29,880

smoking the beans is in every sip of

1197

01:00:36,109 --> 01:00:33,359

this full-bodied dark Jabba I need my

1198

01:00:38,390 --> 01:00:36,119

coffee doc deep with distinct

1199

01:00:41,329 --> 01:00:38,400

bittersweet chocolate highlights just

1200

01:00:43,730 --> 01:00:41,339

like the bunker leaning further into the

1201
01:00:46,970 --> 01:00:43,740
darkness of the roast is Fade to Black

1202
01:00:48,890 --> 01:00:46,980
blend from River Moon coffee just click

1203
01:00:52,250 --> 01:00:48,900
on the banner at jimmychurchradio.com

1204
01:00:54,270 --> 01:00:52,260
and use the promo code f2b blend for 15

1205
01:01:01,569 --> 01:00:54,280
off of your order today

1206
01:01:06,109 --> 01:01:04,370
hi this is race Hobbs here repping the

1207
01:01:09,349 --> 01:01:06,119
planet and you're listening to my good

1208
01:01:11,690 --> 01:01:09,359
friend Jimmy Church Fade to Black on the

1209
01:01:15,170 --> 01:01:11,700
game changer Network and the kgra

1210
01:01:17,630 --> 01:01:15,180
digital broadcast station

1211
01:01:20,390 --> 01:01:17,640
this is Toby kebbel you're listening to

1212
01:01:23,150 --> 01:01:20,400
jimmychurch radio.com don't hurt me

1213
01:01:25,490 --> 01:01:23,160

Jimmy I'm only little hey I'm Adrian

1214

01:01:29,470 --> 01:01:25,500

Grenier and this is Ari Gold we're the

1215

01:01:34,670 --> 01:01:32,329

hey I'm Adrian Grenier and I'm Ari Gold

1216

01:01:38,089 --> 01:01:34,680

we're the honey brothers and you're

1217

01:01:40,069 --> 01:01:38,099

listening to Jimmy Church the revolution

1218

01:01:42,170 --> 01:01:40,079

Jimmy Church of Fade to Black and you

1219

01:01:45,049 --> 01:01:42,180

can become an official fate or Not by

1220

01:01:51,530 --> 01:01:45,059

just going to our membership section at

1221

01:01:51,540 --> 01:01:56,510

Kayla from conscious life

1222

01:02:02,750 --> 01:01:59,089

who holds the lucky pony record for the

1223

01:02:04,549 --> 01:02:02,760

best astrological shot since 1963. true

1224

01:02:06,349 --> 01:02:04,559

story

1225

01:02:07,970 --> 01:02:06,359

this is Micah Hanks of the gralian

1226

01:02:10,430 --> 01:02:07,980

report and you're listening to Jimmy

1227

01:02:12,410 --> 01:02:10,440

Church on Fade to Black across the globe

1228

01:02:15,520 --> 01:02:12,420

on the game changer radio network and

1229

01:02:19,500 --> 01:02:15,530

the one and only kgra radio the planet

1230

01:02:19,880 --> 01:02:19,510

[Music]

1231

01:02:30,000 --> 01:02:19,890

[Applause]

1232

01:02:35,690 --> 01:02:33,309

[Music]

1233

01:02:37,730 --> 01:02:35,700

welcome back this is Fade to Black I'm

1234

01:02:40,010 --> 01:02:37,740

your host Jimmy church tonight Professor

1235

01:02:42,230 --> 01:02:40,020

Avi Loeb joins us for discussing the

1236

01:02:44,870 --> 01:02:42,240

Galileo project I want to let everybody

1237

01:02:49,309 --> 01:02:44,880

know what is going on I'm taking

1238

01:02:52,430 --> 01:02:49,319

tomorrow off it is very rare but I need

1239

01:02:54,770 --> 01:02:52,440

my personal time okay so no emails no

1240

01:02:56,089 --> 01:02:54,780

text where's the show I don't want to

1241

01:02:59,089 --> 01:02:56,099

hear it I'm taking tomorrow night off

1242

01:03:01,549 --> 01:02:59,099

but tonight it's Professor Avi Loeb and

1243

01:03:03,470 --> 01:03:01,559

we're discussing the Galileo project and

1244

01:03:06,289 --> 01:03:03,480

and Avi I'm probably going to do this a

1245

01:03:11,210 --> 01:03:06,299

few times tonight but I want it back up

1246

01:03:13,250 --> 01:03:11,220

and discuss uh a nugget that is in your

1247

01:03:16,309 --> 01:03:13,260

book extraterrestrial which I've read

1248

01:03:20,390 --> 01:03:16,319

probably 20 times now and without

1249

01:03:22,549 --> 01:03:20,400

exaggeration and every time I do I catch

1250

01:03:27,289 --> 01:03:22,559

a little you you've got some nuggets in

1251

01:03:31,750 --> 01:03:27,299

there and and you can read past them uh

1252

01:03:35,569 --> 01:03:31,760

like I have done and one of them is this

1253

01:03:39,049 --> 01:03:35,579

you say I'm paraphrasing of course but

1254

01:03:48,910 --> 01:03:39,059

you say that uh that uh the data showed

1255

01:03:55,329 --> 01:03:53,450

as a pancake now that line I jumped out

1256

01:04:01,370 --> 01:03:55,339

of my I was like wait wait wait

1257

01:04:06,710 --> 01:04:05,210

using the word pancake so let's talk

1258

01:04:08,150 --> 01:04:06,720

about that for a second that is

1259

01:04:10,309 --> 01:04:08,160

different than the artist

1260

01:04:12,470 --> 01:04:10,319

interpretations and and the way that

1261

01:04:15,770 --> 01:04:12,480

it's been presented in the media when

1262

01:04:19,309 --> 01:04:15,780

you say pancake what are you describing

1263

01:04:21,289 --> 01:04:19,319

well uh it's a flat object and the this

1264

01:04:23,809 --> 01:04:21,299

is not a matter of

1265

01:04:25,630 --> 01:04:23,819

um belief it was basically the result of

1266

01:04:29,029 --> 01:04:25,640

analyzing the data

1267

01:04:30,109 --> 01:04:29,039

uh the the reflection of sunlight from

1268

01:04:32,150 --> 01:04:30,119

this object and you have to understand

1269

01:04:33,950 --> 01:04:32,160

the sun acts as a Lamppost that

1270

01:04:36,770 --> 01:04:33,960

illuminates the darkness around us so

1271

01:04:38,390 --> 01:04:36,780

when an object passes near the sun uh it

1272

01:04:41,750 --> 01:04:38,400

reflects light from the sun and that's

1273

01:04:43,309 --> 01:04:41,760

how we find it and then was was tumbling

1274

01:04:45,170 --> 01:04:43,319

and the amount of light that it

1275

01:04:48,049 --> 01:04:45,180

reflected Changed by a factor of 10

1276
01:04:49,910 --> 01:04:48,059
every 8 hours as it was stumbling and if

1277
01:04:51,829 --> 01:04:49,920
you try to fit the variation of light

1278
01:04:54,529 --> 01:04:51,839
you could infer something about the

1279
01:04:57,950 --> 01:04:54,539
shape of the object and the best fit at

1280
01:05:01,190 --> 01:04:57,960
the 90 confidence was that of a flat

1281
01:05:03,770 --> 01:05:01,200
object a pancake like object already the

1282
01:05:06,230 --> 01:05:03,780
discovery paper argued for a flat object

1283
01:05:09,849 --> 01:05:06,240
based on the way that the object tumbled

1284
01:05:12,109 --> 01:05:09,859
and that was later

1285
01:05:14,510 --> 01:05:12,119
reinforced by the variation of light

1286
01:05:17,210 --> 01:05:14,520
that was reflected from it

1287
01:05:20,270 --> 01:05:17,220
um so all together it seems like the

1288
01:05:21,710 --> 01:05:20,280

data suggested that it's flat and in

1289

01:05:24,789 --> 01:05:21,720

addition to that of course there was

1290

01:05:27,289 --> 01:05:24,799

this excess push away from the sun and

1291

01:05:30,170 --> 01:05:27,299

the only way I could make sense of that

1292

01:05:32,150 --> 01:05:30,180

was that it's reflecting sunlight and

1293

01:05:34,309 --> 01:05:32,160

therefore getting pushed from that and

1294

01:05:36,470 --> 01:05:34,319

for that the object had to be very thin

1295

01:05:38,089 --> 01:05:36,480

and that's why I suggested it maybe

1296

01:05:41,990 --> 01:05:38,099

artificial because nature doesn't make

1297

01:05:45,770 --> 01:05:42,000

very thin objects that are flat and then

1298

01:05:47,809 --> 01:05:45,780

in September 2020 just a year less than

1299

01:05:50,109 --> 01:05:47,819

a year ago there was another object

1300

01:05:52,789 --> 01:05:50,119

discovered the

1301

01:05:54,589 --> 01:05:52,799

that was pushed away from the Sun by

1302

01:05:56,270 --> 01:05:54,599

reflecting sunlight and had no

1303

01:05:59,289 --> 01:05:56,280

commentary tale there was no evaporation

1304

01:06:01,670 --> 01:05:59,299

of gas from it exactly the qualities of

1305

01:06:03,650 --> 01:06:01,680

and this object was discovered by the

1306

01:06:05,450 --> 01:06:03,660

same telescope in Hawaii but then the

1307

01:06:08,270 --> 01:06:05,460

astronomers that discovered it realized

1308

01:06:11,270 --> 01:06:08,280

it actually came from Earth it's a

1309

01:06:14,329 --> 01:06:11,280

rocket booster from a 1966 launch that

1310

01:06:18,950 --> 01:06:14,339

was sent into space and they just found

1311

01:06:21,049 --> 01:06:18,960

it given the name 2020 so and we know

1312

01:06:23,089 --> 01:06:21,059

that and that's why right was pushed by

1313

01:06:25,849 --> 01:06:23,099

reflecting sunlight and so that

1314

01:06:28,069 --> 01:06:25,859

reinforces this idea that we can tell

1315

01:06:29,630 --> 01:06:28,079

the difference between a rock and an

1316

01:06:32,569 --> 01:06:29,640

artificial object because an artificial

1317

01:06:35,270 --> 01:06:32,579

object can be very thin and the only

1318

01:06:39,370 --> 01:06:35,280

question is who produced

1319

01:06:41,690 --> 01:06:39,380

now uh the I want to say

1320

01:06:43,910 --> 01:06:41,700

as an example because we're going to

1321

01:06:47,329 --> 01:06:43,920

flip right back over to the Galileo

1322

01:06:50,150 --> 01:06:47,339

project one of the things that bums me

1323

01:06:52,490 --> 01:06:50,160

out and and yourself too about omuamua

1324

01:06:56,329 --> 01:06:52,500

was our lack of data we were caught by

1325

01:06:58,130 --> 01:06:56,339

surprise and by the time we uh knew it

1326

01:07:00,770 --> 01:06:58,140

was there and tried it was gone all

1327

01:07:04,130 --> 01:07:00,780

right we didn't have the ability to

1328

01:07:06,109 --> 01:07:04,140

collect uh imagery and a whole lot of

1329

01:07:07,849 --> 01:07:06,119

data and it's gone and it's probably not

1330

01:07:12,770 --> 01:07:07,859

coming back

1331

01:07:16,309 --> 01:07:12,780

um that is an issue if you look at that

1332

01:07:18,950 --> 01:07:16,319

experience and apply that to Galileo how

1333

01:07:21,829 --> 01:07:18,960

much of this is going to be automated

1334

01:07:24,049 --> 01:07:21,839

with the the Galileo project to track

1335

01:07:25,789 --> 01:07:24,059

objects that may be traveling at

1336

01:07:29,270 --> 01:07:25,799

extraordinary speeds inside of our

1337

01:07:31,730 --> 01:07:29,280

atmosphere yeah so that exactly is the

1338

01:07:33,349 --> 01:07:31,740

purpose and you may ask how come

1339

01:07:36,650 --> 01:07:33,359

astronomers look at the sky all the time

1340

01:07:39,470 --> 01:07:36,660

how come they don't see UAP or unusual

1341

01:07:41,630 --> 01:07:39,480

objects the answer is simply if a bird

1342

01:07:44,750 --> 01:07:41,640

flies above a telescope a regular

1343

01:07:48,370 --> 01:07:44,760

telescope the astronomers ignore it what

1344

01:07:50,990 --> 01:07:48,380

we will do is notice the burden track it

1345

01:07:53,809 --> 01:07:51,000

so that's a different observing strategy

1346

01:07:57,230 --> 01:07:53,819

that's why this this objective was never

1347

01:07:59,690 --> 01:07:57,240

pursued by astronomers we have to Define

1348

01:08:02,089 --> 01:07:59,700

a new set of instruments that would

1349

01:08:04,309 --> 01:08:02,099

allow the telescope to identify targets

1350

01:08:07,430 --> 01:08:04,319

of interest and then follow them on the

1351

01:08:10,549 --> 01:08:07,440

sky and of course the the telescope

1352

01:08:12,529 --> 01:08:10,559

would find Birds would find drones would

1353

01:08:14,750 --> 01:08:12,539

find weather balloons would find the

1354

01:08:18,349 --> 01:08:14,760

airplanes and we will have to reject

1355

01:08:19,970 --> 01:08:18,359

those as not so interesting but the hope

1356

01:08:22,849 --> 01:08:19,980

is that it will also identify things

1357

01:08:25,729 --> 01:08:22,859

that move in an unusual way and perhaps

1358

01:08:28,130 --> 01:08:25,739

not by technologies that we ourselves

1359

01:08:30,229 --> 01:08:28,140

produce now if we don't find any of

1360

01:08:31,849 --> 01:08:30,239

these or if we find that we can explain

1361

01:08:34,970 --> 01:08:31,859

everything that we see in terms of

1362

01:08:37,430 --> 01:08:34,980

mundane explanations so be it you know

1363

01:08:39,370 --> 01:08:37,440

but that's the way of scientific

1364

01:08:42,229 --> 01:08:39,380

um that scientific inquiry

1365

01:08:45,229 --> 01:08:42,239

goes basically or not you don't have a

1366

01:08:47,030 --> 01:08:45,239

Prejudice you just collect the data and

1367

01:08:49,669 --> 01:08:47,040

um you know just like kids learn about

1368

01:08:51,349 --> 01:08:49,679

the world even though the adults tell

1369

01:08:53,209 --> 01:08:51,359

them the answer they want to figure it

1370

01:08:54,530 --> 01:08:53,219

out themselves and that's what we are

1371

01:08:58,610 --> 01:08:54,540

trying to do in the Galileo project

1372

01:09:01,749 --> 01:08:58,620

figure it out ourselves now um when we

1373

01:09:04,490 --> 01:09:01,759

hear these reports you know from uh

1374

01:09:07,610 --> 01:09:04,500

extremely credible professional sources

1375

01:09:11,030 --> 01:09:07,620

you know like a commander fraver that

1376

01:09:14,510 --> 01:09:11,040

are describing these objects uh possibly

1377

01:09:15,849 --> 01:09:14,520

going from point A to point B in the

1378

01:09:19,010 --> 01:09:15,859

blink of an eye

1379

01:09:21,709 --> 01:09:19,020

are you going to have the ability to

1380

01:09:24,169 --> 01:09:21,719

pick it up first if it just appears

1381

01:09:27,349 --> 01:09:24,179

which there have been reports of that

1382

01:09:30,050 --> 01:09:27,359

right just phasing in however it that

1383

01:09:33,229 --> 01:09:30,060

happens but then moving from one point

1384

01:09:35,510 --> 01:09:33,239

to another nearly instantaneously how

1385

01:09:38,630 --> 01:09:35,520

are you going to approach that it seems

1386

01:09:40,550 --> 01:09:38,640

like something impossible to tackle no

1387

01:09:43,070 --> 01:09:40,560

no it will not be because

1388

01:09:44,410 --> 01:09:43,080

um we will have something called the

1389

01:09:47,030 --> 01:09:44,420

fish eye

1390

01:09:50,809 --> 01:09:47,040

lens that is able to look at the entire

1391

01:09:53,149 --> 01:09:50,819

Sky all the time and basically

1392

01:09:54,649 --> 01:09:53,159

um if something appears uh we will

1393

01:09:56,689 --> 01:09:54,659

notice it and then there would be

1394

01:09:58,850 --> 01:09:56,699

additional telescopes that monitor its

1395

01:10:01,930 --> 01:09:58,860

motion very quickly so they would be

1396

01:10:04,610 --> 01:10:01,940

able to uh you know

1397

01:10:09,050 --> 01:10:04,620

immediately move in the direction of the

1398

01:10:10,370 --> 01:10:09,060

object and track it uh and and that's as

1399

01:10:12,470 --> 01:10:10,380

long as the telescope is small enough

1400

01:10:15,470 --> 01:10:12,480

that it's possible to do it very quickly

1401
01:10:17,270 --> 01:10:15,480
so we need to it to be automated as you

1402
01:10:18,709 --> 01:10:17,280
say there is no time for a human to

1403
01:10:20,630 --> 01:10:18,719
respond and say oh this looks

1404
01:10:22,370 --> 01:10:20,640
interesting let's look at that right it

1405
01:10:24,709 --> 01:10:22,380
will be automated and the data will be

1406
01:10:26,930 --> 01:10:24,719
collected and it will be guided by a

1407
01:10:29,030 --> 01:10:26,940
computer system that's an important part

1408
01:10:30,709 --> 01:10:29,040
of the project and so there would be

1409
01:10:34,910 --> 01:10:30,719
telescopes and then they will be

1410
01:10:37,550 --> 01:10:34,920
connected to uh cameras that take the

1411
01:10:39,770 --> 01:10:37,560
data and and transfer it to a computer

1412
01:10:42,410 --> 01:10:39,780
system that that tells the telescope

1413
01:10:43,910 --> 01:10:42,420

what to do in response to that and most

1414

01:10:45,590 --> 01:10:43,920

of most of the sky will not be

1415

01:10:47,270 --> 01:10:45,600

interesting but every now and then there

1416

01:10:50,090 --> 01:10:47,280

would be something interesting now in

1417

01:10:53,270 --> 01:10:50,100

addition to telescopes that observe in

1418

01:10:55,910 --> 01:10:53,280

the visible range of of wavelengths look

1419

01:10:59,870 --> 01:10:55,920

for reflected sunlight during the day we

1420

01:11:03,649 --> 01:10:59,880

will also have infrared the sensors that

1421

01:11:05,149 --> 01:11:03,659

can see objects at night and also radar

1422

01:11:07,250 --> 01:11:05,159

systems you know these are not very

1423

01:11:09,590 --> 01:11:07,260

expensive and nowadays you find both of

1424

01:11:12,410 --> 01:11:09,600

them on on sailboats you know people

1425

01:11:14,630 --> 01:11:12,420

have infrared sensors and radar systems

1426

01:11:19,850 --> 01:11:14,640

that can sit to large distances miles

1427

01:11:22,070 --> 01:11:19,860

and so we will employ those now uh

1428

01:11:24,410 --> 01:11:22,080

this is so I didn't think about the

1429

01:11:27,530 --> 01:11:24,420

fisheye aspect looking at the entire Sky

1430

01:11:30,709 --> 01:11:27,540

all at once finding movement of some

1431

01:11:32,689 --> 01:11:30,719

kind an anomaly and then uh with with

1432

01:11:34,850 --> 01:11:32,699

automation of course picking up on that

1433

01:11:36,350 --> 01:11:34,860

that anomaly and tracking it from there

1434

01:11:38,750 --> 01:11:36,360

that makes a lot of sense that's why

1435

01:11:40,970 --> 01:11:38,760

you're the professor and I'm just a

1436

01:11:44,330 --> 01:11:40,980

radio show host but there's there's

1437

01:11:48,890 --> 01:11:44,340

another part to this as you know

1438

01:11:52,310 --> 01:11:48,900

um most images of UFOs uaps inside of

1439

01:11:55,570 --> 01:11:52,320

the atmosphere are not the best right

1440

01:11:58,930 --> 01:11:55,580

they're just not are we

1441

01:12:02,689 --> 01:11:58,940

expecting and and certainly yourself

1442

01:12:07,490 --> 01:12:02,699

like something High Deft you know high

1443

01:12:08,570 --> 01:12:07,500

def uh 8K a billion pixel image from a

1444

01:12:16,910 --> 01:12:08,580

telescope

1445

01:12:18,229 --> 01:12:16,920

Optics tells you you know like just to

1446

01:12:20,330 --> 01:12:18,239

give you an example if you have an

1447

01:12:22,490 --> 01:12:20,340

object the size of a person at a

1448

01:12:25,610 --> 01:12:22,500

distance of a mile you can get a

1449

01:12:27,410 --> 01:12:25,620

megapixel image of it with a one meter

1450

01:12:29,630 --> 01:12:27,420

telescope a telescope that has a

1451

01:12:32,090 --> 01:12:29,640

diameter of one meter and by the way I

1452

01:12:34,970 --> 01:12:32,100

found such telescopes online there is a

1453

01:12:37,790 --> 01:12:34,980

website that sells them uh and it says

1454

01:12:39,830 --> 01:12:37,800

add to the bag and if you click on add

1455

01:12:42,950 --> 01:12:39,840

to the back the cost is half a million

1456

01:12:44,570 --> 01:12:42,960

dollars so apparently there must be

1457

01:12:46,550 --> 01:12:44,580

people willing to pay half a million

1458

01:12:49,490 --> 01:12:46,560

dollars by clicking on add to the bag

1459

01:12:52,130 --> 01:12:49,500

otherwise it won't exist but it's quite

1460

01:12:54,110 --> 01:12:52,140

expensive for us and we are not planning

1461

01:12:56,570 --> 01:12:54,120

to get telescopes as big as that but

1462

01:12:59,030 --> 01:12:56,580

just to give you an impression such a

1463

01:13:02,390 --> 01:12:59,040

telescope of one meter diameter can

1464

01:13:04,790 --> 01:13:02,400

resolve the head of a pin on an object

1465

01:13:07,010 --> 01:13:04,800

the size of a person at the distance of

1466

01:13:11,030 --> 01:13:07,020

a mile so you can easily read off the

1467

01:13:13,070 --> 01:13:11,040

label made on exoplanet X I mean that

1468

01:13:14,810 --> 01:13:13,080

would be easy but if you take a

1469

01:13:17,270 --> 01:13:14,820

telescope that is 10 times smaller

1470

01:13:19,729 --> 01:13:17,280

instead of seeing the head of a pin you

1471

01:13:23,149 --> 01:13:19,739

will see something you know like half an

1472

01:13:27,229 --> 01:13:23,159

inch or so in size or or so

1473

01:13:29,270 --> 01:13:27,239

um so it's

1474

01:13:31,390 --> 01:13:29,280

um of course the resolution the amount

1475

01:13:33,770 --> 01:13:31,400

the level of details that you can see

1476

01:13:36,890 --> 01:13:33,780

depends on the size of your telescope

1477

01:13:38,450 --> 01:13:36,900

but a megapixel image is possible at the

1478

01:13:40,910 --> 01:13:38,460

distance of a mile with a one meter

1479

01:13:44,030 --> 01:13:40,920

telescope that's I I

1480

01:13:47,630 --> 01:13:44,040

I have uh I've seen things at Great

1481

01:13:50,090 --> 01:13:47,640

distances you know 14 miles

1482

01:13:52,250 --> 01:13:50,100

um and and trying to resolve and get

1483

01:13:55,430 --> 01:13:52,260

resolution on that is always difficult

1484

01:13:58,729 --> 01:13:55,440

but in your case

1485

01:14:01,669 --> 01:13:58,739

um you would I I'm anticipating

1486

01:14:03,550 --> 01:14:01,679

something Crystal Clear something that

1487

01:14:07,189 --> 01:14:03,560

can't be argued

1488

01:14:09,470 --> 01:14:07,199

right that's right so um right now we

1489

01:14:11,090 --> 01:14:09,480

have only fuzzy images and the

1490

01:14:13,669 --> 01:14:11,100

government really didn't release much

1491

01:14:15,590 --> 01:14:13,679

data we're seeing only the tip of the

1492

01:14:17,870 --> 01:14:15,600

iceberg and the reason I think that

1493

01:14:20,330 --> 01:14:17,880

there is an iceberg is because people

1494

01:14:23,689 --> 01:14:20,340

that saw the classified component of the

1495

01:14:25,250 --> 01:14:23,699

report to the Congress argue that it's a

1496

01:14:28,010 --> 01:14:25,260

serious matter and that these are real

1497

01:14:31,010 --> 01:14:28,020

objects based on all the data so we

1498

01:14:33,169 --> 01:14:31,020

haven't seen such conclusive data but I

1499

01:14:35,149 --> 01:14:33,179

believe that it exists because otherwise

1500

01:14:37,610 --> 01:14:35,159

those people that saw the classified

1501

01:14:40,250 --> 01:14:37,620

component that the iceberg so to speak

1502

01:14:42,709 --> 01:14:40,260

uh would not speak about it this way you

1503

01:14:45,229 --> 01:14:42,719

know these were CA former CIA directors

1504

01:14:48,350 --> 01:14:45,239

Brennan and Woolsey and former president

1505

01:14:51,169 --> 01:14:48,360

Barack Obama and other even Bill Nelson

1506

01:14:52,610 --> 01:14:51,179

the NASA administrator said that

1507

01:14:54,530 --> 01:14:52,620

scientists should look into that because

1508

01:14:57,709 --> 01:14:54,540

he saw the classified component as a

1509

01:15:00,229 --> 01:14:57,719

senator and that to me illustrates the

1510

01:15:02,870 --> 01:15:00,239

need of scientists getting the data

1511

01:15:05,470 --> 01:15:02,880

themselves because the reason the data

1512

01:15:07,790 --> 01:15:05,480

is classified is because it was taken by

1513

01:15:09,649 --> 01:15:07,800

government-owned sensors it's not

1514

01:15:11,689 --> 01:15:09,659

necessarily because the data itself is

1515

01:15:14,510 --> 01:15:11,699

classified it's the fact that it was

1516

01:15:15,890 --> 01:15:14,520

collected by sensors that are classified

1517

01:15:18,649 --> 01:15:15,900

that the government doesn't want other

1518

01:15:20,990 --> 01:15:18,659

nations to know about but if we buy it

1519

01:15:23,750 --> 01:15:21,000

off the shelf all these telescope

1520

01:15:26,510 --> 01:15:23,760

systems we buy from components that you

1521

01:15:29,149 --> 01:15:26,520

can purchase anywhere you know and and

1522

01:15:32,090 --> 01:15:29,159

put it together and we can make the data

1523

01:15:34,310 --> 01:15:32,100

open and available to anyone and that's

1524

01:15:36,410 --> 01:15:34,320

the way science is done you know we we

1525

01:15:38,750 --> 01:15:36,420

are not after issues related to National

1526

01:15:42,110 --> 01:15:38,760

Security we're after finding something

1527

01:15:43,910 --> 01:15:42,120

new about nature and if you know that's

1528

01:15:46,250 --> 01:15:43,920

the way astronomy is done that's the way

1529

01:15:50,149 --> 01:15:46,260

science in general is done it's sort of

1530

01:15:52,669 --> 01:15:50,159

Blue Sky you know uh here it you know no

1531

01:15:55,610 --> 01:15:52,679

pun intended but it's actually we are

1532

01:15:56,930 --> 01:15:55,620

looking for uh at the Blue Sky and

1533

01:16:00,050 --> 01:15:56,940

trying to see if there's anything

1534

01:16:02,169 --> 01:16:00,060

unusual out there uh Bill Nelson I don't

1535

01:16:03,890 --> 01:16:02,179

know if you were aware but uh yesterday

1536

01:16:07,250 --> 01:16:03,900

he was

1537

01:16:10,910 --> 01:16:07,260

in a briefing with uh the Department of

1538

01:16:13,250 --> 01:16:10,920

Defense and the UAP task force on uaps

1539

01:16:16,130 --> 01:16:13,260

now this happened yesterday I don't know

1540

01:16:18,950 --> 01:16:16,140

the results of the briefing but it made

1541

01:16:20,209 --> 01:16:18,960

me think about our conversation today in

1542

01:16:24,050 --> 01:16:20,219

that

1543

01:16:26,209 --> 01:16:24,060

um has the UAP task force reached out to

1544

01:16:29,030 --> 01:16:26,219

you since the announcement of the

1545

01:16:31,370 --> 01:16:29,040

Galileo report would they be interested

1546

01:16:34,430 --> 01:16:31,380

in some of your data

1547

01:16:36,290 --> 01:16:34,440

no they didn't reach out to me and our

1548

01:16:37,850 --> 01:16:36,300

data will be open to everyone including

1549

01:16:40,850 --> 01:16:37,860

them so they don't need to reach out to

1550

01:16:44,090 --> 01:16:40,860

me because we will not share it just

1551
01:16:46,910 --> 01:16:44,100
with selected number of people you know

1552
01:16:48,590 --> 01:16:46,920
and it will be available to everyone so

1553
01:16:52,970 --> 01:16:48,600
whenever we have the data they will be

1554
01:16:55,669 --> 01:16:52,980
able to review it do you uh do you do

1555
01:16:58,669 --> 01:16:55,679
you anticipate Avi and and I mean this

1556
01:17:01,370 --> 01:16:58,679
in in the most positive sense to keep

1557
01:17:05,330 --> 01:17:01,380
this non-political to keep this

1558
01:17:08,510 --> 01:17:05,340
non-religious to make this uh an Earth

1559
01:17:11,390 --> 01:17:08,520
Project and and it is it is for the

1560
01:17:15,110 --> 01:17:11,400
citizens of this planet it shouldn't be

1561
01:17:17,689 --> 01:17:15,120
polarized and we can't argue about this

1562
01:17:21,770 --> 01:17:17,699
in a in a geopolitical sense

1563
01:17:25,550 --> 01:17:21,780

uh yes I think it's a science project

1564

01:17:27,050 --> 01:17:25,560

and Science in general is is Guided by

1565

01:17:30,470 --> 01:17:27,060

the principles of sharing and

1566

01:17:32,990 --> 01:17:30,480

cooperation on evidence-based knowledge

1567

01:17:34,729 --> 01:17:33,000

and that's exactly the theme of this

1568

01:17:37,090 --> 01:17:34,739

project we are trying to collect

1569

01:17:39,350 --> 01:17:37,100

evidence and share it with everyone and

1570

01:17:41,510 --> 01:17:39,360

uh because the question that we're

1571

01:17:43,370 --> 01:17:41,520

asking whether you know we are the

1572

01:17:45,590 --> 01:17:43,380

smartest kid on the Block whether there

1573

01:17:47,050 --> 01:17:45,600

is someone out there that kind of a

1574

01:17:50,750 --> 01:17:47,060

question is of interest to everyone

1575

01:17:54,050 --> 01:17:50,760

irrespective of national boundaries of

1576

01:17:55,030 --> 01:17:54,060

ethnic origin or anything it's just like

1577

01:17:58,010 --> 01:17:55,040

science

1578

01:18:00,830 --> 01:17:58,020

uh more generally is trying to address

1579

01:18:03,290 --> 01:18:00,840

questions about nature and and for that

1580

01:18:05,810 --> 01:18:03,300

purpose you know we are make we will

1581

01:18:09,110 --> 01:18:05,820

make the data available and we will have

1582

01:18:12,590 --> 01:18:09,120

an uh a transparent analysis and we Have

1583

01:18:15,590 --> 01:18:12,600

No Agenda whatsoever and uh you know the

1584

01:18:18,530 --> 01:18:15,600

government did not really examine these

1585

01:18:20,870 --> 01:18:18,540

UAP because of a scientific motivation

1586

01:18:22,729 --> 01:18:20,880

they they were just monitoring the sky

1587

01:18:25,669 --> 01:18:22,739

and so something unusual so we are

1588

01:18:27,709 --> 01:18:25,679

saying okay well let us have a closer

1589

01:18:29,510 --> 01:18:27,719

look let us reproduce some of the

1590

01:18:32,209 --> 01:18:29,520

unusual objects and see what they are

1591

01:18:33,950 --> 01:18:32,219

we're trying to help and understand what

1592

01:18:36,189 --> 01:18:33,960

these things are and if they're human

1593

01:18:39,070 --> 01:18:36,199

made we don't care about it if they are

1594

01:18:41,510 --> 01:18:39,080

uh birds or some natural

1595

01:18:44,030 --> 01:18:41,520

have a mundane explanation we don't care

1596

01:18:46,729 --> 01:18:44,040

about it but I should say it's enough to

1597

01:18:48,890 --> 01:18:46,739

have one object let's say or more like

1598

01:18:52,510 --> 01:18:48,900

just one object that came from an

1599

01:18:55,430 --> 01:18:52,520

extraterrestrial origin for this to be

1600

01:18:58,610 --> 01:18:55,440

a major Discovery because it will change

1601
01:19:00,470 --> 01:18:58,620
everything about the way we perceive

1602
01:19:03,890 --> 01:19:00,480
ourselves in the universe it would

1603
01:19:06,229 --> 01:19:03,900
change everything that's the key I mean

1604
01:19:08,209 --> 01:19:06,239
it would change everything before the

1605
01:19:11,090 --> 01:19:08,219
break I want to address something else

1606
01:19:15,189 --> 01:19:11,100
really quick which is this there are

1607
01:19:19,610 --> 01:19:15,199
some out there uh that would say Harvard

1608
01:19:22,310 --> 01:19:19,620
never breaks away from uh the the

1609
01:19:25,910 --> 01:19:22,320
straight and narrow and then there are

1610
01:19:29,090 --> 01:19:25,920
others like me that would say Harvard

1611
01:19:32,930 --> 01:19:29,100
things outside of the box we've had many

1612
01:19:35,330 --> 01:19:32,940
examples of Harvard uh applying an open

1613
01:19:39,050 --> 01:19:35,340

mind to things so I'm going to throw

1614

01:19:43,130 --> 01:19:39,060

that at you could this project have been

1615

01:19:45,770 --> 01:19:43,140

done at another University or or is

1616

01:19:47,870 --> 01:19:45,780

Harvard giving you the freedoms uh that

1617

01:19:50,030 --> 01:19:47,880

you are asking for

1618

01:19:51,470 --> 01:19:50,040

well I believe that it could have been

1619

01:19:53,870 --> 01:19:51,480

done elsewhere

1620

01:19:56,209 --> 01:19:53,880

um it's just a question of whether

1621

01:19:58,130 --> 01:19:56,219

people would dare to pursue it if

1622

01:20:00,169 --> 01:19:58,140

whether they have the self-confidence to

1623

01:20:04,790 --> 01:20:00,179

go against the stream so to speak the

1624

01:20:06,770 --> 01:20:04,800

the uh whether the the the the public or

1625

01:20:10,010 --> 01:20:06,780

the or the media would pay as much

1626
01:20:12,770 --> 01:20:10,020
attention to their arguments uh that's a

1627
01:20:14,750 --> 01:20:12,780
separate matter but uh you know it's

1628
01:20:16,010 --> 01:20:14,760
basically an argument that I'm trying to

1629
01:20:18,470 --> 01:20:16,020
make as an individual it doesn't

1630
01:20:21,229 --> 01:20:18,480
represent Harvard University and it's

1631
01:20:23,270 --> 01:20:21,239
true that Harvard allowed me to Blossom

1632
01:20:25,250 --> 01:20:23,280
in a way that um wouldn't be possible

1633
01:20:27,530 --> 01:20:25,260
elsewhere you know I got exceptional

1634
01:20:29,870 --> 01:20:27,540
students and post doctoral fellows that

1635
01:20:34,490 --> 01:20:29,880
work with me and I was able to develop

1636
01:20:38,450 --> 01:20:34,500
my career uh uh at Harvard in a way that

1637
01:20:41,149 --> 01:20:38,460
uh enabled me to to make important work

1638
01:20:44,149 --> 01:20:41,159

and but but putting that aside the

1639

01:20:45,830 --> 01:20:44,159

argument itself uh and and the research

1640

01:20:47,270 --> 01:20:45,840

Direction could have been taken anywhere

1641

01:20:49,550 --> 01:20:47,280

you know if you think about the

1642

01:20:52,010 --> 01:20:49,560

albertans Stein he came up with his most

1643

01:20:53,990 --> 01:20:52,020

important ideas before he got important

1644

01:20:56,209 --> 01:20:54,000

positions that the prestigious

1645

01:20:59,629 --> 01:20:56,219

universities he came up with a special

1646

01:21:02,570 --> 01:20:59,639

theory of relativity uh before he was in

1647

01:21:05,990 --> 01:21:02,580

the patent office in Basel and uh you

1648

01:21:09,229 --> 01:21:06,000

know the the in principle anyone can

1649

01:21:11,709 --> 01:21:09,239

think about the good ideas anywhere the

1650

01:21:14,689 --> 01:21:11,719

only issue is that people often are not

1651

01:21:17,090 --> 01:21:14,699

attended to they they do not steer as

1652

01:21:18,950 --> 01:21:17,100

much that the pot if they are in a

1653

01:21:21,169 --> 01:21:18,960

remote place and nobody listens to them

1654

01:21:23,870 --> 01:21:21,179

but they they could nevertheless come up

1655

01:21:27,129 --> 01:21:23,880

with the right ideas now

1656

01:21:29,870 --> 01:21:27,139

um the there's another concern

1657

01:21:32,750 --> 01:21:29,880

uh that I'm sure that you thought about

1658

01:21:34,430 --> 01:21:32,760

is there a possibility we've got uh

1659

01:21:37,450 --> 01:21:34,440

we've got about five minutes before the

1660

01:21:41,090 --> 01:21:37,460

break uh is there

1661

01:21:45,709 --> 01:21:41,100

you may Witness

1662

01:21:48,890 --> 01:21:45,719

a a secret government project right some

1663

01:21:51,770 --> 01:21:48,900

some Hypersonic maybe stationary maybe

1664

01:21:55,010 --> 01:21:51,780

something anti-gravidic some black

1665

01:21:59,030 --> 01:21:55,020

project and and you guys image this

1666

01:22:01,370 --> 01:21:59,040

track this uh shoot video footage and

1667

01:22:03,950 --> 01:22:01,380

expose something that maybe should be

1668

01:22:04,910 --> 01:22:03,960

exposed what are you gonna do if that

1669

01:22:07,189 --> 01:22:04,920

happens

1670

01:22:10,610 --> 01:22:07,199

well I as I said I don't care much about

1671

01:22:13,669 --> 01:22:10,620

human-made things so I for me it would

1672

01:22:15,410 --> 01:22:13,679

be very boring and uh I I wouldn't care

1673

01:22:17,330 --> 01:22:15,420

less about it but you have to understand

1674

01:22:19,669 --> 01:22:17,340

it really depends where we put the

1675

01:22:21,890 --> 01:22:19,679

telescopes so if we put the telescopes

1676

01:22:25,310 --> 01:22:21,900

on a Mountaintop we need a remote

1677

01:22:26,870 --> 01:22:25,320

location it's very unlikely that at that

1678

01:22:28,550 --> 01:22:26,880

location you will have some special

1679

01:22:32,209 --> 01:22:28,560

facilities that belong to the government

1680

01:22:33,950 --> 01:22:32,219

where they they do these things and

1681

01:22:37,189 --> 01:22:33,960

um so

1682

01:22:39,189 --> 01:22:37,199

um you know if the activities that you

1683

01:22:42,110 --> 01:22:39,199

are describing are restricted to

1684

01:22:45,110 --> 01:22:42,120

military facilities or some special

1685

01:22:48,590 --> 01:22:45,120

occasions we we may not see them

1686

01:22:50,930 --> 01:22:48,600

um and then as I said I don't if we can

1687

01:22:53,209 --> 01:22:50,940

tell that the motion is consistent with

1688

01:22:56,390 --> 01:22:53,219

whatever technological equipment is

1689

01:22:59,450 --> 01:22:56,400

available right now to humans uh then we

1690

01:23:02,930 --> 01:22:59,460

will ignore it well okay let me let me

1691

01:23:06,590 --> 01:23:02,940

actually narrow uh the question let's

1692

01:23:09,890 --> 01:23:06,600

say hypothetically that that you you

1693

01:23:13,610 --> 01:23:09,900

tracked the Tic Tac and you photograph

1694

01:23:15,649 --> 01:23:13,620

the Tic Tac it doesn't look conventional

1695

01:23:17,510 --> 01:23:15,659

it looks like a Tic Tac right it's

1696

01:23:22,729 --> 01:23:17,520

traveling it's doing these crazy things

1697

01:23:24,590 --> 01:23:22,739

but but later you find out that it was a

1698

01:23:27,169 --> 01:23:24,600

Northrop Grumman

1699

01:23:29,149 --> 01:23:27,179

project that's what I'm referring to

1700

01:23:32,030 --> 01:23:29,159

something that you so then we we will

1701

01:23:35,030 --> 01:23:32,040

not write about it because then I lose

1702

01:23:37,850 --> 01:23:35,040

my interest in such a thing

1703

01:23:40,850 --> 01:23:37,860

um I'm happy I mean we will not publish

1704

01:23:42,830 --> 01:23:40,860

necessarily a paper about it because you

1705

01:23:45,229 --> 01:23:42,840

know all you learned is that humans are

1706

01:23:47,990 --> 01:23:45,239

doing something but that's not of great

1707

01:23:50,209 --> 01:23:48,000

interest for us a science is astronomers

1708

01:23:52,070 --> 01:23:50,219

I really want to figure out you know if

1709

01:23:53,629 --> 01:23:52,080

it's an atmospheric phenomenon it turns

1710

01:23:55,850 --> 01:23:53,639

out to be something exotic nobody

1711

01:23:58,490 --> 01:23:55,860

thought about that would be worth a

1712

01:24:01,550 --> 01:23:58,500

paper because the atmosphere can do

1713

01:24:03,890 --> 01:24:01,560

these things over and over again in many

1714

01:24:06,050 --> 01:24:03,900

places and you know that will tell us

1715

01:24:08,330 --> 01:24:06,060

something the other thing I wanted to

1716

01:24:10,310 --> 01:24:08,340

mention if we have the equipment placed

1717

01:24:13,430 --> 01:24:10,320

in foreign countries other places you

1718

01:24:16,010 --> 01:24:13,440

know that they may not have any U.S

1719

01:24:19,129 --> 01:24:16,020

technology operating over there sure so

1720

01:24:20,470 --> 01:24:19,139

we hopefully we'll have enough locations

1721

01:24:22,850 --> 01:24:20,480

where we can

1722

01:24:25,790 --> 01:24:22,860

isolate something that came from outside

1723

01:24:27,649 --> 01:24:25,800

the Earth because it will appear in many

1724

01:24:30,410 --> 01:24:27,659

different places where you don't expect

1725

01:24:32,570 --> 01:24:30,420

U.S equipment to be now I'm gonna I'm

1726

01:24:34,250 --> 01:24:32,580

gonna make you uh a prediction right

1727

01:24:38,030 --> 01:24:34,260

here you're going to have more work than

1728

01:24:42,890 --> 01:24:38,040

you can handle there is stuff out there

1729

01:24:47,149 --> 01:24:42,900

and as you know uh the amount of of of

1730

01:24:50,870 --> 01:24:47,159

planets and star systems that number is

1731

01:24:52,790 --> 01:24:50,880

so ginormous that most humans can't even

1732

01:24:55,729 --> 01:24:52,800

contemplate how big those numbers are

1733

01:24:57,709 --> 01:24:55,739

there must be a nearly infinite amount

1734

01:24:59,750 --> 01:24:57,719

of intelligence out there how much of it

1735

01:25:02,570 --> 01:24:59,760

is aware of Earth I don't know but if

1736

01:25:04,790 --> 01:25:02,580

you take a small fraction of that a

1737

01:25:08,629 --> 01:25:04,800

small percentage that would indicate

1738

01:25:10,610 --> 01:25:08,639

we're being visited a lot right well I

1739

01:25:13,370 --> 01:25:10,620

would so I would phrase it differently I

1740

01:25:15,770 --> 01:25:13,380

would say you know most of the stars

1741

01:25:17,689 --> 01:25:15,780

form before the sun and you know by

1742

01:25:20,390 --> 01:25:17,699

before I mean billions of years before

1743

01:25:22,550 --> 01:25:20,400

the Sun so um you know the tens of

1744

01:25:24,470 --> 01:25:22,560

billions of stars like the sun and we

1745

01:25:26,510 --> 01:25:24,480

know that roughly half of them have a

1746

01:25:28,060 --> 01:25:26,520

Planet the size of the Earth roughly at

1747

01:25:29,229 --> 01:25:28,070

the same separation so

1748

01:25:31,550 --> 01:25:29,239

[Applause]

1749

01:25:33,470 --> 01:25:31,560

it's very likely that there was a

1750

01:25:35,149 --> 01:25:33,480

civilization like us or more advanced

1751

01:25:38,270 --> 01:25:35,159

than us that formed a billion years ago

1752

01:25:41,270 --> 01:25:38,280

and if they send artificial intelligence

1753

01:25:43,669 --> 01:25:41,280

systems like we are developing now you

1754

01:25:46,209 --> 01:25:43,679

know that drive our cars that will make

1755

01:25:49,750 --> 01:25:46,219

medical decisions within a decade

1756

01:25:52,610 --> 01:25:49,760

this could outsmart us and

1757

01:25:55,010 --> 01:25:52,620

we can just educate them like we educate

1758

01:25:57,590 --> 01:25:55,020

kids you know train them to cope with

1759

01:26:00,709 --> 01:25:57,600

the world using the guiding principles

1760

01:26:02,570 --> 01:26:00,719

we gave to we give kids you know and and

1761

01:26:05,510 --> 01:26:02,580

eventually we can send them into space

1762

01:26:07,790 --> 01:26:05,520

and if we equip them with 3D printing

1763

01:26:10,310 --> 01:26:07,800

you know they can reproduce themselves

1764

01:26:13,250 --> 01:26:10,320

replicate themselves when they go to

1765

01:26:15,649 --> 01:26:13,260

planets far away and uh within a billion

1766

01:26:17,149 --> 01:26:15,659

years you can pretty much populate the

1767

01:26:19,610 --> 01:26:17,159

entire Milky Way galaxy all the

1768

01:26:22,010 --> 01:26:19,620

habitable planets with probes of this

1769

01:26:23,810 --> 01:26:22,020

type and the question is do we live in

1770

01:26:26,810 --> 01:26:23,820

such a reality where something like that

1771

01:26:28,970 --> 01:26:26,820

was done it was sent originally a

1772

01:26:31,610 --> 01:26:28,980

billion years ago and right now it's

1773

01:26:33,970 --> 01:26:31,620

everywhere and then the only way to

1774

01:26:36,410 --> 01:26:33,980

answer this question is to look to check

1775

01:26:38,629 --> 01:26:36,420

rather than assume that we are the first

1776
01:26:40,729 --> 01:26:38,639
to come along we are really special and

1777
01:26:42,470 --> 01:26:40,739
unique and there is no point in and we

1778
01:26:44,030 --> 01:26:42,480
really need extraordinary evidence

1779
01:26:46,729 --> 01:26:44,040
before we even engage in this

1780
01:26:49,310 --> 01:26:46,739
possibility thank you for saying that

1781
01:26:52,310 --> 01:26:49,320
that's an extraordinary statement but it

1782
01:26:55,310 --> 01:26:52,320
is just based on reality there isn't

1783
01:26:57,050 --> 01:26:55,320
another way logically to look at any of

1784
01:26:59,750 --> 01:26:57,060
this Avi stay right there our guest

1785
01:27:02,270 --> 01:26:59,760
tonight Professor avilo we are

1786
01:27:04,430 --> 01:27:02,280
discussing the Galileo project I'm Yours

1787
01:27:06,169 --> 01:27:04,440
Timmy church this is Fade to Black stay

1788
01:27:12,040 --> 01:27:06,179

with us we'll be right back after this

1789

01:27:15,710 --> 01:27:14,270

[Music]

1790

01:27:22,490 --> 01:27:15,720

foreign

1791

01:27:28,970 --> 01:27:25,330

way out here we listened to Jimmy Church

1792

01:27:30,950 --> 01:27:28,980

you're listening to Fade to Black

1793

01:27:33,649 --> 01:27:30,960

always on the edge of the hottest

1794

01:27:39,649 --> 01:27:33,659

alternative talk Jimmy church with Fade

1795

01:27:39,659 --> 01:27:50,629

advocacy

1796

01:27:55,430 --> 01:27:53,030

do you want to be an official fate or

1797

01:27:57,950 --> 01:27:55,440

not of course you do this is Jimmy

1798

01:27:59,149 --> 01:27:57,960

Church of Fade to Black just go to our

1799

01:28:02,270 --> 01:27:59,159

membership section at

1800

01:28:06,350 --> 01:28:04,550

fader knots when you think about the

1801

01:28:08,209 --> 01:28:06,360

future of our country and where we're

1802

01:28:11,270 --> 01:28:08,219

headed do you wonder about the food

1803

01:28:13,610 --> 01:28:11,280

supply I do disruptions in the food

1804

01:28:15,890 --> 01:28:13,620

supply chain could be disastrous and

1805

01:28:18,229 --> 01:28:15,900

they usually occur with little warning

1806

01:28:20,689 --> 01:28:18,239

that's why the smartest thing you can do

1807

01:28:24,169 --> 01:28:20,699

today is to stockpile emergency food

1808

01:28:27,169 --> 01:28:24,179

water and other Essentials I personally

1809

01:28:29,270 --> 01:28:27,179

recommend my Patriot Supply they're the

1810

01:28:31,790 --> 01:28:29,280

nation's largest emergency preparedness

1811

01:28:34,490 --> 01:28:31,800

company serving millions of customers

1812

01:28:37,070 --> 01:28:34,500

for more than a decade in fact they're

1813

01:28:40,250 --> 01:28:37,080

the only source my family trusts for our

1814

01:28:43,370 --> 01:28:40,260

preparedness plan you should too right

1815

01:28:45,950 --> 01:28:43,380

now save 20 off a full four-week supply

1816

01:28:49,070 --> 01:28:45,960

of delicious meals that provide 2 000

1817

01:28:52,570 --> 01:28:49,080

calories a day saving 20 helps too

1818

01:28:54,530 --> 01:28:52,580

doesn't it especially now so go to

1819

01:28:56,229 --> 01:28:54,540

preparewithjimmy.com and get ready

1820

01:28:58,850 --> 01:28:56,239

that's

1821

01:29:01,750 --> 01:28:58,860

preparewithjimmy.com there's no time to

1822

01:29:05,149 --> 01:29:01,760

lose do it now

1823

01:29:08,750 --> 01:29:05,159

so you love talk radio then you'll love

1824

01:29:11,570 --> 01:29:08,760

talk streamlive.com talk stream live is

1825

01:29:13,669 --> 01:29:11,580

always on 24 7 with the best streaming

1826

01:29:15,649 --> 01:29:13,679

talk shows find your favorite talkers

1827

01:29:18,350 --> 01:29:15,659

and discover some new ones it's free

1828

01:29:20,689 --> 01:29:18,360

readily available online or on mobile

1829

01:29:22,669 --> 01:29:20,699

with any smartphone or tablet finding

1830

01:29:25,250 --> 01:29:22,679

your favorite talk shows all in one

1831

01:29:27,890 --> 01:29:25,260

place has gotten a whole lot easier just

1832

01:29:29,810 --> 01:29:27,900

go to talkstreamlive.com be sure to

1833

01:29:32,950 --> 01:29:29,820

download the free apps from Google Play

1834

01:29:36,250 --> 01:29:32,960

or the iTunes app store

1835

01:29:38,400 --> 01:29:36,260

you listen to us and we listen to you

1836

01:29:41,590 --> 01:29:38,410

and so does the CIA

1837

01:29:41,600 --> 01:29:46,129

kgra.radio.com

1838

01:29:54,430 --> 01:29:48,770

you are listening to fade to black with

1839

01:30:00,709 --> 01:29:57,350

s you're listening to Jimmy Church this

1840

01:30:04,910 --> 01:30:00,719

is Revolution the revolution will not be

1841

01:30:09,560 --> 01:30:04,920

televised the revolution is on radio

1842

01:30:09,570 --> 01:30:45,970

[Music]

1843

01:30:45,980 --> 01:30:49,129

thank you

1844

01:30:52,610 --> 01:30:50,990

welcome back this is Fade to Black I'm

1845

01:30:54,950 --> 01:30:52,620

your host Jimmy church tonight Professor

1846

01:30:57,950 --> 01:30:54,960

Avi Loeb joins us want to remind

1847

01:31:00,169 --> 01:30:57,960

everybody that tomorrow night I'm taking

1848

01:31:02,750 --> 01:31:00,179

the night off

1849

01:31:04,669 --> 01:31:02,760

only time I'm gonna say it tonight no I

1850

01:31:07,850 --> 01:31:04,679

just said it I'm taking tomorrow off

1851
01:31:10,610 --> 01:31:07,860
okay all right tonight professor avilobe

1852
01:31:13,910 --> 01:31:10,620
and we are talking about the Galileo

1853
01:31:17,090 --> 01:31:13,920
project we have put up in all of our

1854
01:31:19,310 --> 01:31:17,100
social media links to how you can help

1855
01:31:21,890 --> 01:31:19,320
support the project and fund it any

1856
01:31:23,450 --> 01:31:21,900
amount the links are up and it'll take

1857
01:31:26,629 --> 01:31:23,460
you straight to the Galileo project

1858
01:31:30,410 --> 01:31:26,639
website and you will follow and see the

1859
01:31:32,689 --> 01:31:30,420
link there and it it says fund us and

1860
01:31:35,810 --> 01:31:32,699
then donations to the Galileo project

1861
01:31:38,750 --> 01:31:35,820
all the links are up in social media now

1862
01:31:41,570 --> 01:31:38,760
um Avi oh by the way it's pretty cool

1863
01:31:45,950 --> 01:31:41,580

that I can just address

1864

01:31:47,810 --> 01:31:45,960

a professor at Harvard as avi avi let's

1865

01:31:51,649 --> 01:31:47,820

let's let's

1866

01:31:54,050 --> 01:31:51,659

second

1867

01:31:57,410 --> 01:31:54,060

um one of the things that you have

1868

01:32:00,110 --> 01:31:57,420

mentioned and I'm starting to hear more

1869

01:32:04,330 --> 01:32:00,120

and more chatter about the ability and

1870

01:32:09,590 --> 01:32:04,340

the technology to do this is to peer out

1871

01:32:13,669 --> 01:32:09,600

and and Pierce the atmospheres of of

1872

01:32:17,689 --> 01:32:13,679

distant uh planets and look at their

1873

01:32:20,450 --> 01:32:17,699

atmosphere also maybe city lights right

1874

01:32:22,910 --> 01:32:20,460

um some some industry and this was

1875

01:32:26,810 --> 01:32:22,920

something that you started uh research

1876

01:32:29,209 --> 01:32:26,820

on a while ago uh can we discuss that

1877

01:32:31,129 --> 01:32:29,219

for a second and will that be part of

1878

01:32:34,189 --> 01:32:31,139

the Galileo project

1879

01:32:36,169 --> 01:32:34,199

yeah that will not be part but indeed

1880

01:32:37,729 --> 01:32:36,179

over the past five years or so I wrote

1881

01:32:40,030 --> 01:32:37,739

the scientific papers on these

1882

01:32:44,629 --> 01:32:40,040

possibilities so the first one is

1883

01:32:47,270 --> 01:32:44,639

imagine a planet where there is industry

1884

01:32:49,189 --> 01:32:47,280

just like we developed them uh

1885

01:32:50,990 --> 01:32:49,199

Industries and

1886

01:32:53,390 --> 01:32:51,000

um and you can get the industrial

1887

01:32:56,330 --> 01:32:53,400

pollution of the atmosphere just like we

1888

01:32:59,149 --> 01:32:56,340

pollute the atmosphere with the CFCs

1889

01:33:01,070 --> 01:32:59,159

these are the molecules that destroy the

1890

01:33:01,729 --> 01:33:01,080

ozone layer and

1891

01:33:04,010 --> 01:33:01,739

um

1892

01:33:05,870 --> 01:33:04,020

we can potentially search for such

1893

01:33:08,330 --> 01:33:05,880

molecules in the atmosphere of another

1894

01:33:10,610 --> 01:33:08,340

planet the astronomers are mainly

1895

01:33:12,470 --> 01:33:10,620

thinking about looking for oxygen or

1896

01:33:15,050 --> 01:33:12,480

methane that are indicative of primitive

1897

01:33:18,350 --> 01:33:15,060

life like microbes but one thing to keep

1898

01:33:21,110 --> 01:33:18,360

in mind is the Earth had microbes from

1899

01:33:22,729 --> 01:33:21,120

the beginning almost and for two billion

1900

01:33:24,590 --> 01:33:22,739

years even though there were microbes

1901

01:33:26,810 --> 01:33:24,600

there wasn't much oxygen in the

1902

01:33:29,330 --> 01:33:26,820

atmosphere of Earth we don't fully

1903

01:33:31,490 --> 01:33:29,340

understand why but the atmosphere did

1904

01:33:34,189 --> 01:33:31,500

not have much oxygen so if you don't

1905

01:33:36,649 --> 01:33:34,199

that's half of the lifetime of Earth so

1906

01:33:38,090 --> 01:33:36,659

if you don't find oxygen in the

1907

01:33:40,850 --> 01:33:38,100

atmosphere of another planet it doesn't

1908

01:33:43,189 --> 01:33:40,860

tell you and that there is no life there

1909

01:33:47,090 --> 01:33:43,199

because Earth itself spent half of its

1910

01:33:48,890 --> 01:33:47,100

lifetime in that situation if you do

1911

01:33:51,169 --> 01:33:48,900

find oxygen again it doesn't tell you

1912

01:33:53,870 --> 01:33:51,179

that there is life because you can get

1913

01:33:56,930 --> 01:33:53,880

oxygen from natural chemical processes

1914

01:33:58,970 --> 01:33:56,940

but if you find these CFCs these complex

1915

01:34:01,129 --> 01:33:58,980

molecules that nature doesn't produce on

1916

01:34:04,430 --> 01:34:01,139

its own then you know that not only

1917

01:34:06,470 --> 01:34:04,440

there is life but actually the the there

1918

01:34:08,990 --> 01:34:06,480

are Industries on that planet that

1919

01:34:12,350 --> 01:34:09,000

pollute the atmosphere and that would be

1920

01:34:14,390 --> 01:34:12,360

very exciting to find so my point is the

1921

01:34:17,870 --> 01:34:14,400

same instruments we are developing to

1922

01:34:19,550 --> 01:34:17,880

search for oxygen or from methane can in

1923

01:34:21,229 --> 01:34:19,560

principle be used to search for

1924

01:34:23,689 --> 01:34:21,239

industrial pollution and that would be

1925

01:34:27,470 --> 01:34:23,699

quite interesting and and the second

1926

01:34:30,890 --> 01:34:27,480

thing is City Lights I wrote the paper

1927

01:34:33,470 --> 01:34:30,900

just um a few months ago with an

1928

01:34:35,510 --> 01:34:33,480

undergraduate at the Stanford where we

1929

01:34:38,629 --> 01:34:35,520

said that the James Webb Space Telescope

1930

01:34:41,450 --> 01:34:38,639

can look for city lights on the nearest

1931

01:34:44,330 --> 01:34:41,460

a habitable planet to the solar system

1932

01:34:47,450 --> 01:34:44,340

and that's the planet near a Proxima

1933

01:34:49,550 --> 01:34:47,460

Centauri the nearest star uh and that

1934

01:34:51,410 --> 01:34:49,560

planet is very close to the star so it

1935

01:34:53,390 --> 01:34:51,420

has a permanent dayside and a permanent

1936

01:34:55,729 --> 01:34:53,400

night side and if you imagine a

1937

01:34:58,430 --> 01:34:55,739

civilization living on it they might

1938

01:35:00,290 --> 01:34:58,440

want to transfer electricity to the

1939

01:35:03,470 --> 01:35:00,300

night side and illuminate the night side

1940

01:35:05,629 --> 01:35:03,480

because it's permanently dark and with

1941

01:35:08,750 --> 01:35:05,639

the James Webb Space Telescope we can

1942

01:35:10,550 --> 01:35:08,760

tell whether the dark hemisphere is

1943

01:35:12,709 --> 01:35:10,560

really dark or whether it has some light

1944

01:35:15,530 --> 01:35:12,719

on it because as the planet moves around

1945

01:35:19,129 --> 01:35:15,540

the star you see different phases of it

1946

01:35:21,530 --> 01:35:19,139

just like phases of the moon and if the

1947

01:35:23,930 --> 01:35:21,540

dark side is not really dark you know

1948

01:35:25,910 --> 01:35:23,940

the phases would look different so we

1949

01:35:27,129 --> 01:35:25,920

made a prediction for how well we can

1950

01:35:30,790 --> 01:35:27,139

constrain

1951

01:35:34,729 --> 01:35:30,800

uh the night side and on Proxima

1952

01:35:36,890 --> 01:35:34,739

Centauri B this planet and and what kind

1953

01:35:39,590 --> 01:35:36,900

of artificial illumination what level of

1954

01:35:42,109 --> 01:35:39,600

artificial illumination can we detect uh

1955

01:35:44,270 --> 01:35:42,119

from City Lights On the Dark Side what

1956

01:35:47,990 --> 01:35:44,280

would an Etc

1957

01:35:49,790 --> 01:35:48,000

uh see visually of Earth from great

1958

01:35:51,649 --> 01:35:49,800

distances would they be able to see

1959

01:35:55,129 --> 01:35:51,659

exactly how you're presenting it here

1960

01:35:56,750 --> 01:35:55,139

would they see Los Angeles or New York

1961

01:35:59,209 --> 01:35:56,760

or Taiwan

1962

01:36:02,209 --> 01:35:59,219

well it depends how sensitive they're or

1963

01:36:06,350 --> 01:36:02,219

how big their telescopes are but

1964

01:36:09,290 --> 01:36:06,360

um the illumination of the night side of

1965

01:36:13,129 --> 01:36:09,300

Earth is is really small it's a percent

1966

01:36:16,430 --> 01:36:13,139

of a percent of the day side you know

1967

01:36:19,669 --> 01:36:16,440

it's very small it because city lights

1968

01:36:22,250 --> 01:36:19,679

are sparse you know there aren't many uh

1969

01:36:24,290 --> 01:36:22,260

locations where you have city lights and

1970

01:36:27,790 --> 01:36:24,300

all together you have a small fraction

1971

01:36:30,530 --> 01:36:27,800

of the earth even the the

1972

01:36:31,970 --> 01:36:30,540

continents you know that that are

1973

01:36:35,270 --> 01:36:31,980

illuminated not to speak about the

1974

01:36:38,330 --> 01:36:35,280

oceans that was dark at night so

1975

01:36:39,890 --> 01:36:38,340

um it will be very challenging but with

1976

01:36:42,410 --> 01:36:39,900

a big enough telescope you could

1977

01:36:46,090 --> 01:36:42,420

potentially detect it uh of course on

1978

01:36:48,050 --> 01:36:46,100

the earth you also can look for these

1979

01:36:50,629 --> 01:36:48,060

molecules that I mentioned before for

1980

01:36:54,649 --> 01:36:50,639

industrial pollution uh

1981

01:36:56,950 --> 01:36:54,659

so there are ways to tell that we have

1982

01:36:59,689 --> 01:36:56,960

in a technological

1983

01:37:02,149 --> 01:36:59,699

activity here and of course the most

1984

01:37:04,189 --> 01:37:02,159

obvious one is the radio signals that

1985

01:37:09,229 --> 01:37:04,199

we're sending out they went a distance

1986

01:37:10,510 --> 01:37:09,239

of 126 light years so far because 126

1987

01:37:13,370 --> 01:37:10,520

years ago

1988

01:37:15,350 --> 01:37:13,380

Marconi transmitted the first radio

1989

01:37:17,689 --> 01:37:15,360
signal so since then we've been

1990

01:37:20,750 --> 01:37:17,699
transmitting without thinking about it

1991

01:37:22,669 --> 01:37:20,760
and uh you know when you go in the

1992

01:37:24,530 --> 01:37:22,679
wilderness you have to be careful you

1993

01:37:26,570 --> 01:37:24,540
have to be quiet because you never know

1994

01:37:28,970 --> 01:37:26,580
who is listening and whether there are

1995

01:37:31,209 --> 01:37:28,980
predators out there but we weren't very

1996

01:37:34,370 --> 01:37:31,219
very careful about that

1997

01:37:37,790 --> 01:37:34,380
this is I want to discuss that for just

1998

01:37:39,770 --> 01:37:37,800
a second because our window and we can

1999

01:37:42,050 --> 01:37:39,780
think about television and radio signals

2000

01:37:44,390 --> 01:37:42,060
and at one point we didn't even care

2001
01:37:47,149 --> 01:37:44,400
about wattage we were just blasting out

2002
01:37:49,370 --> 01:37:47,159
massive radio signals

2003
01:37:50,709 --> 01:37:49,380
um without consideration of of other

2004
01:37:54,050 --> 01:37:50,719
things but

2005
01:37:58,310 --> 01:37:54,060
now that window of radio and television

2006
01:38:01,850 --> 01:37:58,320
signals has closed down because we are

2007
01:38:04,129 --> 01:38:01,860
using you know the cable and Optics and

2008
01:38:07,669 --> 01:38:04,139
our transmission for communications Now

2009
01:38:10,669 --> 01:38:07,679
isn't necessarily through uh radio and

2010
01:38:13,070 --> 01:38:10,679
television signals would that be a same

2011
01:38:16,910 --> 01:38:13,080
the same consideration uh when looking

2012
01:38:19,010 --> 01:38:16,920
for signals from an Etc and that they

2013
01:38:20,750 --> 01:38:19,020

may have gone through the same uh

2014

01:38:23,390 --> 01:38:20,760

Evolution that we have where they did

2015

01:38:25,010 --> 01:38:23,400

radio signals for a hundred years but

2016

01:38:28,490 --> 01:38:25,020

now everything is now closed down in

2017

01:38:30,229 --> 01:38:28,500

digital yeah I think it's very possible

2018

01:38:32,689 --> 01:38:30,239

that this is the reason we are not

2019

01:38:34,370 --> 01:38:32,699

detecting a lot of radio signals and I

2020

01:38:35,990 --> 01:38:34,380

think it was the wrong approach for the

2021

01:38:38,510 --> 01:38:36,000

search for extraterrestrial intelligence

2022

01:38:39,890 --> 01:38:38,520

because it's just like trying to have a

2023

01:38:42,410 --> 01:38:39,900

phone conversation you need the

2024

01:38:44,930 --> 01:38:42,420

counterpart to be alive when you're

2025

01:38:47,629 --> 01:38:44,940

having the conversation and instead a

2026
01:38:49,970 --> 01:38:47,639
much better approach is like archeology

2027
01:38:52,669 --> 01:38:49,980
where you're searching for relics that

2028
01:38:55,129 --> 01:38:52,679
the counterpart left behind and that

2029
01:38:56,810 --> 01:38:55,139
includes equipment in space that's what

2030
01:38:58,129 --> 01:38:56,820
the Galileo project is about that's what

2031
01:39:01,010 --> 01:38:58,139
I was advocating in my book

2032
01:39:04,030 --> 01:39:01,020
extraterrestrial doing archeology in

2033
01:39:07,790 --> 01:39:04,040
space looking for objects left behind by

2034
01:39:10,729 --> 01:39:07,800
past civilizations that predated us now

2035
01:39:14,149 --> 01:39:10,739
uh now let's let's shift gears again

2036
01:39:16,550 --> 01:39:14,159
um and I want to go back to a couple of

2037
01:39:19,609 --> 01:39:16,560
points this all revolves around the

2038
01:39:22,490 --> 01:39:19,619

Galileo project but it's some of the the

2039

01:39:26,649 --> 01:39:22,500

little nuggets in your book that I have

2040

01:39:29,649 --> 01:39:26,659

picked up on uh the first is all

2041

01:39:34,430 --> 01:39:29,659

you've have described it

2042

01:39:37,070 --> 01:39:34,440

as a buoy that it and when you describe

2043

01:39:39,830 --> 01:39:37,080

it before it got here does that mean it

2044

01:39:42,470 --> 01:39:39,840

was it had a specific point in space

2045

01:39:45,109 --> 01:39:42,480

where it was stationed where it was

2046

01:39:48,109 --> 01:39:45,119

parked where it was anchored before

2047

01:39:50,450 --> 01:39:48,119

movement started am I understanding that

2048

01:39:53,450 --> 01:39:50,460

uh that comparison

2049

01:39:56,030 --> 01:39:53,460

yeah so there is the notion of the local

2050

01:39:58,790 --> 01:39:56,040

standard of rest which is sort of like

2051
01:40:00,470 --> 01:39:58,800
the galactic parking lot that's that's

2052
01:40:02,270 --> 01:40:00,480
the frame of reference that you get to

2053
01:40:05,090 --> 01:40:02,280
when you average over the Motions of all

2054
01:40:07,070 --> 01:40:05,100
the stars in the vicinity of the Sun and

2055
01:40:08,570 --> 01:40:07,080
then you know stars move relative to

2056
01:40:10,850 --> 01:40:08,580
each other in the vicinity of the sun

2057
01:40:12,970 --> 01:40:10,860
you average over them and then you get

2058
01:40:16,430 --> 01:40:12,980
to the galactic frame of reference and

2059
01:40:18,410 --> 01:40:16,440
uh omomo was at rest in that frame which

2060
01:40:20,570 --> 01:40:18,420
is very surprising because all the stars

2061
01:40:24,109 --> 01:40:20,580
move relative to that frame only one in

2062
01:40:27,410 --> 01:40:24,119
500 stars is so much at rest so Momo was

2063
01:40:30,350 --> 01:40:27,420

so sort of like finding a car parked in

2064

01:40:33,709 --> 01:40:30,360

a parking lot in a city where you have

2065

01:40:36,890 --> 01:40:33,719

cars moving by passing by at different

2066

01:40:38,689 --> 01:40:36,900

speeds and first thing you you realize

2067

01:40:40,970 --> 01:40:38,699

is that it couldn't have come from any

2068

01:40:42,770 --> 01:40:40,980

of the nearby stars because they are

2069

01:40:44,810 --> 01:40:42,780

moving relative to that frame and it

2070

01:40:45,590 --> 01:40:44,820

would have inherited their motion so it

2071

01:40:48,050 --> 01:40:45,600

doesn't

2072

01:40:50,510 --> 01:40:48,060

move relative to the local standard of

2073

01:40:53,209 --> 01:40:50,520

for instance the other thing to think

2074

01:40:56,209 --> 01:40:53,219

about is maybe that serves a certain

2075

01:40:57,950 --> 01:40:56,219

purpose because maybe there is a grid of

2076

01:41:01,490 --> 01:40:57,960

objects

2077

01:41:04,970 --> 01:41:01,500

um that the mark Interstellar space it's

2078

01:41:09,890 --> 01:41:08,149

um posts you know Road posts that if you

2079

01:41:11,209 --> 01:41:09,900

were to navigate through Interstellar

2080

01:41:14,510 --> 01:41:11,219

space they provide you with information

2081

01:41:16,189 --> 01:41:14,520

about where you are and that could be a

2082

01:41:19,550 --> 01:41:16,199

reason for it to be at rest in that

2083

01:41:22,070 --> 01:41:19,560

frame uh but what happened was basically

2084

01:41:24,350 --> 01:41:22,080

the sun bumped into it the sun is moving

2085

01:41:27,709 --> 01:41:24,360

relative to that frame and it bumped

2086

01:41:30,709 --> 01:41:27,719

against it and just gave it a kick sort

2087

01:41:32,990 --> 01:41:30,719

of like a racket that hits a ping-pong

2088

01:41:34,729 --> 01:41:33,000

ball and gives it a kick and uh that's

2089

01:41:36,950 --> 01:41:34,739

what happened with the Sun so the motion

2090

01:41:38,510 --> 01:41:36,960

of the sun relative to the object is the

2091

01:41:42,709 --> 01:41:38,520

motion of the sun relative to the local

2092

01:41:46,250 --> 01:41:42,719

style of the France and so it's LSR it's

2093

01:41:48,830 --> 01:41:46,260

local standard of rest were you able to

2094

01:41:51,410 --> 01:41:48,840

pinpoint it by backtracking into the

2095

01:41:54,290 --> 01:41:51,420

data and finding out where it was

2096

01:41:56,450 --> 01:41:54,300

anchored so to speak

2097

01:42:00,890 --> 01:41:56,460

yeah yeah I mean we know where it

2098

01:42:03,590 --> 01:42:00,900

started because we know when the sun is

2099

01:42:05,689 --> 01:42:03,600

sort of collided with it so it was

2100

01:42:07,550 --> 01:42:05,699

pretty much at that location close to

2101
01:42:11,090 --> 01:42:07,560
that location and the sun just ran into

2102
01:42:12,890 --> 01:42:11,100
it and deflected it you know gave it a

2103
01:42:15,709 --> 01:42:12,900
kick through its gravitational force

2104
01:42:18,530 --> 01:42:15,719
that's what happened and there must be a

2105
01:42:20,450 --> 01:42:18,540
lot of other objects like it because

2106
01:42:22,189 --> 01:42:20,460
um you know what's the chance that we'll

2107
01:42:24,109 --> 01:42:22,199
be looking at the sky and finding this

2108
01:42:27,709 --> 01:42:24,119
object within a few years of starting

2109
01:42:29,750 --> 01:42:27,719
the survey it's quite small and it took

2110
01:42:32,149 --> 01:42:29,760
about 10 000 years for this object to

2111
01:42:34,970 --> 01:42:32,159
cross the solar system the entire solar

2112
01:42:38,450 --> 01:42:34,980
system so it was clearly not the design

2113
01:42:40,370 --> 01:42:38,460

to go after us so to speak but it could

2114

01:42:42,590 --> 01:42:40,380

have been and it could have served

2115

01:42:44,750 --> 01:42:42,600

another purpose it could have been for

2116

01:42:47,090 --> 01:42:44,760

example a receiver that collects data

2117

01:42:49,669 --> 01:42:47,100

from probes and that's why it was

2118

01:42:51,470 --> 01:42:49,679

tumbling in all directions and maybe

2119

01:42:54,770 --> 01:42:51,480

there are probes in the solar system

2120

01:42:57,070 --> 01:42:54,780

like this UAP that they provided with

2121

01:42:59,689 --> 01:42:57,080

information when it comes close to them

2122

01:43:01,970 --> 01:42:59,699

we just don't know we didn't collect

2123

01:43:04,129 --> 01:43:01,980

enough data on this object we don't know

2124

01:43:06,350 --> 01:43:04,139

for sure whether it's artificial we

2125

01:43:09,350 --> 01:43:06,360

don't know what its purpose is but

2126
01:43:11,330 --> 01:43:09,360
that's the reason for getting more data

2127
01:43:14,870 --> 01:43:11,340
for trying to figure out the nature of

2128
01:43:19,490 --> 01:43:14,880
these unusual objects now with something

2129
01:43:23,570 --> 01:43:19,500
that is in an LSR State okay let's just

2130
01:43:26,629 --> 01:43:23,580
go with that if it's not in motion it

2131
01:43:28,550 --> 01:43:26,639
must be difficult to detect I mean you

2132
01:43:31,129 --> 01:43:28,560
wouldn't you wouldn't be able to see it

2133
01:43:33,470 --> 01:43:31,139
first it's too small and it's out in

2134
01:43:35,689 --> 01:43:33,480
space right yeah it's roughly the size

2135
01:43:38,450 --> 01:43:35,699
of a football field and you can see it

2136
01:43:40,790 --> 01:43:38,460
when it crosses the orbit of the Earth

2137
01:43:43,430 --> 01:43:40,800
around the Sun and that's when we saw it

2138
01:43:46,490 --> 01:43:43,440

we noticed it only at that distance the

2139

01:43:48,410 --> 01:43:46,500

sun the sun the illumination by the Sun

2140

01:43:50,570 --> 01:43:48,420

is bright enough for for you to notice

2141

01:43:52,310 --> 01:43:50,580

it it's sort of like having a Lamppost

2142

01:43:55,790 --> 01:43:52,320

the sun is a Lamppost that illuminates

2143

01:43:58,189 --> 01:43:55,800

the darkness around us and and only when

2144

01:43:59,990 --> 01:43:58,199

a fly gets close to the Lamppost you see

2145

01:44:02,149 --> 01:44:00,000

it when the fly is far away you don't

2146

01:44:04,189 --> 01:44:02,159

see it so when you look around the

2147

01:44:06,649 --> 01:44:04,199

Lamppost on on the street you know you

2148

01:44:08,930 --> 01:44:06,659

see flies around it those flies are

2149

01:44:10,550 --> 01:44:08,940

everywhere not just around you know the

2150

01:44:12,530 --> 01:44:10,560

lamp post but you can't see them far

2151
01:44:15,290 --> 01:44:12,540
away and the same was true about the

2152
01:44:17,390 --> 01:44:15,300
omumua and now it's a million times

2153
01:44:20,629 --> 01:44:17,400
fainted and it was close to the Sun so

2154
01:44:23,750 --> 01:44:20,639
we can't really uh see it anymore now

2155
01:44:26,209 --> 01:44:23,760
Let's Fold this over into the Galileo

2156
01:44:29,750 --> 01:44:26,219
project there's a reason why I do things

2157
01:44:32,870 --> 01:44:29,760
the way I do Avi which is this now that

2158
01:44:36,950 --> 01:44:32,880
you know that omu mua is not only

2159
01:44:40,609 --> 01:44:36,960
possible but uh how tricky it is to

2160
01:44:43,430 --> 01:44:40,619
track photograph uh capture imagery and

2161
01:44:46,010 --> 01:44:43,440
and collect data now you have that

2162
01:44:47,510 --> 01:44:46,020
knowledge going in with the Galileo

2163
01:44:51,169 --> 01:44:47,520

project

2164

01:44:53,570 --> 01:44:51,179

um how would you track uh something like

2165

01:44:56,510 --> 01:44:53,580

that with the Galileo project and how

2166

01:44:59,689 --> 01:44:56,520

would you capture sure the Imaging

2167

01:45:01,729 --> 01:44:59,699

so um as I said the Galileo project has

2168

01:45:03,890 --> 01:45:01,739

two objectives one is very nearby

2169

01:45:06,950 --> 01:45:03,900

objects that are in the earth atmosphere

2170

01:45:09,290 --> 01:45:06,960

these are the UAP and for them we will

2171

01:45:10,970 --> 01:45:09,300

use the setup of these telescopes that I

2172

01:45:13,370 --> 01:45:10,980

was talking about maybe if we have

2173

01:45:16,090 --> 01:45:13,380

enough funding and I just got an email

2174

01:45:19,669 --> 01:45:16,100

from someone that donated 500

2175

01:45:23,149 --> 01:45:19,679

if we get enough funding then we can put

2176
01:45:25,910 --> 01:45:23,159
a lot of these telescopes maybe hundreds

2177
01:45:27,530 --> 01:45:25,920
at Best Around the Globe and and the

2178
01:45:30,590 --> 01:45:27,540
monitoring enough of the sky to make

2179
01:45:33,129 --> 01:45:30,600
discoveries and find new objects like

2180
01:45:35,930 --> 01:45:33,139
that in the earth atmosphere

2181
01:45:37,390 --> 01:45:35,940
at the same time we hope to find objects

2182
01:45:40,129 --> 01:45:37,400
like

2183
01:45:42,169 --> 01:45:40,139
you know in space within the orbit of

2184
01:45:45,350 --> 01:45:42,179
the Earth around the Sun and and if we

2185
01:45:47,510 --> 01:45:45,360
have a Space Telescope like jwst or like

2186
01:45:49,910 --> 01:45:47,520
others that would be launched in the

2187
01:45:52,189 --> 01:45:49,920
coming decade they can look at the

2188
01:45:55,189 --> 01:45:52,199

object from different directions then

2189

01:45:57,050 --> 01:45:55,199

the telescopes on Earth so if we see

2190

01:45:59,629 --> 01:45:57,060

this same object from different actions

2191

01:46:02,090 --> 01:45:59,639

we can track the the three-dimensional

2192

01:46:05,149 --> 01:46:02,100

motion of the object much better we can

2193

01:46:06,950 --> 01:46:05,159

also infer something about its shape

2194

01:46:09,290 --> 01:46:06,960

because the reflection of sunlight is

2195

01:46:11,330 --> 01:46:09,300

different in different directions so we

2196

01:46:13,430 --> 01:46:11,340

will learn much more if we were to have

2197

01:46:15,669 --> 01:46:13,440

multiple telescopes looking at the same

2198

01:46:18,410 --> 01:46:15,679

object from different directions

2199

01:46:21,590 --> 01:46:18,420

for example if there was a telescope at

2200

01:46:23,950 --> 01:46:21,600

a LaGrange Point far away from Earth uh

2201
01:46:26,990 --> 01:46:23,960
that would have that would help us a lot

2202
01:46:29,330 --> 01:46:27,000
and then you know ultimately we might

2203
01:46:32,109 --> 01:46:29,340
want to design a space mission that will

2204
01:46:35,510 --> 01:46:32,119
come close to an object of Interest like

2205
01:46:38,390 --> 01:46:35,520
and take a close-up photograph now uh

2206
01:46:40,850 --> 01:46:38,400
and what about response time because one

2207
01:46:45,350 --> 01:46:40,860
of the problems with omu mua was

2208
01:46:46,970 --> 01:46:45,360
everybody was caught by surprise and can

2209
01:46:50,750 --> 01:46:46,980
you imagine if we were able to have

2210
01:46:53,209 --> 01:46:50,760
jumped on omumua quicker and what we

2211
01:46:56,390 --> 01:46:53,219
would have learned well now you have

2212
01:47:00,109 --> 01:46:56,400
that experience will your response time

2213
01:47:03,470 --> 01:47:00,119

in space not terrestrial but in space be

2214

01:47:07,490 --> 01:47:03,480

be Amplified and extremely quick

2215

01:47:09,470 --> 01:47:07,500

that's right and then and now you know

2216

01:47:12,169 --> 01:47:09,480

we can think of more and more as a

2217

01:47:14,149 --> 01:47:12,179

wake-up call it basically tells us there

2218

01:47:16,790 --> 01:47:14,159

is something to look out for out there

2219

01:47:19,250 --> 01:47:16,800

and uh even if most of the time we find

2220

01:47:21,470 --> 01:47:19,260

rocks every now and then we we might

2221

01:47:25,370 --> 01:47:21,480

find a plastic bottle and we better

2222

01:47:27,709 --> 01:47:25,380

check and then all together I think uh

2223

01:47:30,169 --> 01:47:27,719

collecting evidence is important because

2224

01:47:32,209 --> 01:47:30,179

even if we end up finding something that

2225

01:47:34,790 --> 01:47:32,219

was produced by Nature that is not

2226

01:47:36,649 --> 01:47:34,800

artificial not technological and it

2227

01:47:38,689 --> 01:47:36,659

turns out that omumua was a hydrogen

2228

01:47:40,629 --> 01:47:38,699

Iceberg or a nitrogen Iceberg something

2229

01:47:43,850 --> 01:47:40,639

we've never seen before

2230

01:47:45,470 --> 01:47:43,860

we still learn something new that in

2231

01:47:46,970 --> 01:47:45,480

addition to the Rocks we find in the

2232

01:47:48,649 --> 01:47:46,980

solar system there are nurseries that

2233

01:47:50,629 --> 01:47:48,659

make objects that are different from

2234

01:47:52,790 --> 01:47:50,639

what we find in the solar system

2235

01:47:54,550 --> 01:47:52,800

and so be it you know we learned

2236

01:47:57,649 --> 01:47:54,560

something new we didn't know that before

2237

01:48:00,169 --> 01:47:57,659

and the way to to learn is by getting

2238

01:48:01,970 --> 01:48:00,179

data not by assuming that we know the

2239

01:48:03,709 --> 01:48:01,980

answer in advance and that was the

2240

01:48:05,510 --> 01:48:03,719

mistake made by the philosophers during

2241

01:48:07,010 --> 01:48:05,520

the days of Galileo that they didn't

2242

01:48:09,169 --> 01:48:07,020

want to look through his telescope

2243

01:48:11,570 --> 01:48:09,179

because they knew that the sun moves

2244

01:48:13,189 --> 01:48:11,580

around the earth and we don't want to

2245

01:48:16,090 --> 01:48:13,199

repeat that mistake

2246

01:48:20,570 --> 01:48:16,100

okay now

2247

01:48:22,390 --> 01:48:20,580

Let's uh let's talk about something

2248

01:48:26,450 --> 01:48:22,400

a little different

2249

01:48:29,149 --> 01:48:26,460

there are things inside of our solar

2250

01:48:32,510 --> 01:48:29,159

system that have been photographed and

2251
01:48:36,050 --> 01:48:32,520
commented on but nothing has been

2252
01:48:38,149 --> 01:48:36,060
followed up and specifically I'll bring

2253
01:48:41,870 --> 01:48:38,159
up the monolithum Phobos

2254
01:48:45,229 --> 01:48:41,880
where if you look at those photographs

2255
01:48:47,570 --> 01:48:45,239
in the initial Imaging one would say

2256
01:48:50,149 --> 01:48:47,580
clearly that that looks artificial

2257
01:48:52,490 --> 01:48:50,159
are you going to go and and take a look

2258
01:48:54,290 --> 01:48:52,500
at some of these anomalies inside of our

2259
01:48:58,010 --> 01:48:54,300
solar system

2260
01:49:00,109 --> 01:48:58,020
uh not at first I'm really after objects

2261
01:49:03,350 --> 01:49:00,119
that are floating out there either in

2262
01:49:04,970 --> 01:49:03,360
the atmosphere or in space but you are

2263
01:49:07,850 --> 01:49:04,980

right that there is a whole new frontier

2264

01:49:10,070 --> 01:49:07,860

that can be pursued which is artifacts

2265

01:49:12,590 --> 01:49:10,080

on planets and that includes also

2266

01:49:15,169 --> 01:49:12,600

artifacts on the moon because you know

2267

01:49:17,689 --> 01:49:15,179

the moon has no geological activity and

2268

01:49:19,850 --> 01:49:17,699

it doesn't turn around you know the the

2269

01:49:22,490 --> 01:49:19,860

outer layers stay where they are they

2270

01:49:24,709 --> 01:49:22,500

stay that way for billions of years and

2271

01:49:27,709 --> 01:49:24,719

there is no atmosphere that burns up any

2272

01:49:31,189 --> 01:49:27,719

object coming in so all together the

2273

01:49:35,209 --> 01:49:31,199

Moon is a museum it it keeps it kept

2274

01:49:37,970 --> 01:49:35,219

them all the objects that collided with

2275

01:49:39,770 --> 01:49:37,980

it and uh I think we should regard it as

2276

01:49:41,030 --> 01:49:39,780

an archaeological site where we could

2277

01:49:44,750 --> 01:49:41,040

find them

2278

01:49:47,689 --> 01:49:44,760

some piece of equipment that crashed on

2279

01:49:49,669 --> 01:49:47,699

the moon that did not come from us we

2280

01:49:51,649 --> 01:49:49,679

should just search for it and we haven't

2281

01:49:55,010 --> 01:49:51,659

surveyed the surface of the Moon so

2282

01:49:57,169 --> 01:49:55,020

that's an example where you can find uh

2283

01:50:00,109 --> 01:49:57,179

artifacts where you can find things that

2284

01:50:03,290 --> 01:50:00,119

we didn't produce and the same is true

2285

01:50:05,510 --> 01:50:03,300

for other objects like the planet Mars

2286

01:50:08,089 --> 01:50:05,520

and other places in the solar system

2287

01:50:10,729 --> 01:50:08,099

you're right it's we should check we

2288

01:50:13,310 --> 01:50:10,739

should treat those as potential

2289

01:50:15,050 --> 01:50:13,320

archaeological sites now I know you're

2290

01:50:16,970 --> 01:50:15,060

not going to step out of bounds but I

2291

01:50:20,629 --> 01:50:16,980

have to ask you

2292

01:50:24,169 --> 01:50:20,639

have has anybody uh given you

2293

01:50:27,589 --> 01:50:24,179

information uh you know like a possible

2294

01:50:30,169 --> 01:50:27,599

sight on on the moon something strange

2295

01:50:32,209 --> 01:50:30,179

here Avi when you get to the chance you

2296

01:50:36,770 --> 01:50:32,219

might want to look here have you been

2297

01:50:41,629 --> 01:50:38,510

you're grinning

2298

01:50:44,510 --> 01:50:41,639

no no I I was not of course what I mean

2299

01:50:48,709 --> 01:50:44,520

is you you I mean uh you have to stay in

2300

01:50:50,629 --> 01:50:48,719

bounds uh but no no the point is you see

2301

01:50:53,270 --> 01:50:50,639

um there was never very convincing

2302

01:50:57,050 --> 01:50:53,280

evidence about the claims that people

2303

01:50:59,390 --> 01:50:57,060

made and and we should be cautious about

2304

01:51:02,629 --> 01:50:59,400

it but the thing about the Pentagon

2305

01:51:04,910 --> 01:51:02,639

report to Congress and about to move is

2306

01:51:06,530 --> 01:51:04,920

that it passed a certain threshold where

2307

01:51:09,109 --> 01:51:06,540

it was intriguing enough for us to

2308

01:51:10,609 --> 01:51:09,119

collect more data so obviously once we

2309

01:51:12,910 --> 01:51:10,619

get a high resolution image you know

2310

01:51:16,550 --> 01:51:12,920

once we have a megapixel image of a UAP

2311

01:51:19,010 --> 01:51:16,560

or of a more like object that shows that

2312

01:51:21,950 --> 01:51:19,020

it's artificial I think everyone would

2313

01:51:24,290 --> 01:51:21,960

agree uh on the interpretation it would

2314

01:51:27,229 --> 01:51:24,300

not be at all

2315

01:51:30,050 --> 01:51:27,239

um debated because it would be clear if

2316

01:51:31,550 --> 01:51:30,060

it's good enough data so really the

2317

01:51:35,209 --> 01:51:31,560

telling the difference between

2318

01:51:37,129 --> 01:51:35,219

human-made objects natural objects and

2319

01:51:39,050 --> 01:51:37,139

artificial objects from it an

2320

01:51:40,810 --> 01:51:39,060

extraterrestrial to technological

2321

01:51:43,010 --> 01:51:40,820

civilization

2322

01:51:44,689 --> 01:51:43,020

the distinction between these three

2323

01:51:47,990 --> 01:51:44,699

possibilities can be made with good

2324

01:51:49,850 --> 01:51:48,000

enough data and that's the key so it's

2325

01:51:51,470 --> 01:51:49,860

not a philosophical question it's a

2326

01:51:54,470 --> 01:51:51,480

question of having a good enough image

2327

01:51:57,589 --> 01:51:54,480

that that's a very simple point and a

2328

01:52:01,070 --> 01:51:57,599

kid can understand it now and why is it

2329

01:52:03,729 --> 01:52:01,080

that uh especially when we're talking

2330

01:52:08,450 --> 01:52:03,739

about physics astrophysics and astronomy

2331

01:52:11,390 --> 01:52:08,460

that there is this philosophical uh line

2332

01:52:14,209 --> 01:52:11,400

that is there are we are we ever going

2333

01:52:16,609 --> 01:52:14,219

to get to the point where uh the two

2334

01:52:19,129 --> 01:52:16,619

conjoined forces I mean philosophy at

2335

01:52:20,649 --> 01:52:19,139

one point was physics a couple of

2336

01:52:23,030 --> 01:52:20,659

thousand years ago

2337

01:52:25,609 --> 01:52:23,040

do you see that happening

2338

01:52:27,950 --> 01:52:25,619

well I must say that um I was a bit

2339

01:52:30,530 --> 01:52:27,960

disappointed because a few weeks ago I

2340

01:52:33,050 --> 01:52:30,540

saw an article in nature astronomy

2341

01:52:35,689 --> 01:52:33,060

magazine by a philosopher who argued

2342

01:52:36,729 --> 01:52:35,699

that based on philosophical reasoning he

2343

01:52:39,470 --> 01:52:36,739

can

2344

01:52:41,390 --> 01:52:39,480

demonstrate that omuamua must have been

2345

01:52:44,570 --> 01:52:41,400

natural in origin and could not have

2346

01:52:45,709 --> 01:52:44,580

been a technological Relic and I thought

2347

01:52:47,510 --> 01:52:45,719

to myself

2348

01:52:49,850 --> 01:52:47,520

haven't we learned anything over the

2349

01:52:52,010 --> 01:52:49,860

past four centuries since the days of

2350

01:52:54,290 --> 01:52:52,020

Galileo that you should not rely on

2351

01:52:56,570 --> 01:52:54,300

philosophical arguments but look for the

2352

01:53:00,169 --> 01:52:56,580

answers through telescopes

2353

01:53:02,510 --> 01:53:00,179

yeah and and and and not to say that you

2354

01:53:05,209 --> 01:53:02,520

know because I I I appreciate and love

2355

01:53:08,089 --> 01:53:05,219

philosophy and I don't know why I'm able

2356

01:53:10,310 --> 01:53:08,099

to remain objective and appreciate both

2357

01:53:12,530 --> 01:53:10,320

sides but I mean it's just like can't we

2358

01:53:14,570 --> 01:53:12,540

all just get along all right don't we I

2359

01:53:17,870 --> 01:53:14,580

actually have a common goal here

2360

01:53:20,089 --> 01:53:17,880

yeah yeah but some questions you know

2361

01:53:22,030 --> 01:53:20,099

our philosophical in nature for example

2362

01:53:26,209 --> 01:53:22,040

you can ask

2363

01:53:28,970 --> 01:53:26,219

why do the laws of physics have the way

2364

01:53:32,209 --> 01:53:28,980

you know have the current under you know

2365

01:53:34,550 --> 01:53:32,219

principles and or why did the universe

2366

01:53:36,169 --> 01:53:34,560

start in a certain way this goes beyond

2367

01:53:38,510 --> 01:53:36,179

physics it's sort of a metaphysical

2368

01:53:41,149 --> 01:53:38,520

question and there are questions where

2369

01:53:43,790 --> 01:53:41,159

philosophy is really the only tool that

2370

01:53:46,490 --> 01:53:43,800

you can use but if you ask whether an

2371

01:53:49,370 --> 01:53:46,500

object is technological Relic or it's

2372

01:53:52,609 --> 01:53:49,380

natural it's piece of rock I would say

2373

01:53:54,290 --> 01:53:52,619

for that to decide that there is no

2374

01:53:56,390 --> 01:53:54,300

point in discussing it philosophically

2375

01:53:58,010 --> 01:53:56,400

let's just get good data on it and then

2376

01:54:00,830 --> 01:53:58,020

we'll figure it out if we had our hands

2377

01:54:03,770 --> 01:54:00,840

on it we would know whether it's a rock

2378

01:54:06,890 --> 01:54:03,780

or not is not a philosophical issue yeah

2379

01:54:08,450 --> 01:54:06,900

exactly you could have after you figure

2380

01:54:10,870 --> 01:54:08,460

out what it is if it looks like it's

2381

01:54:12,950 --> 01:54:10,880

artificial then you can start to ask

2382

01:54:15,770 --> 01:54:12,960

philosophical questions about its

2383

01:54:18,950 --> 01:54:15,780

significance but what we are addressing

2384

01:54:21,050 --> 01:54:18,960

right now what stands before us is to

2385

01:54:24,050 --> 01:54:21,060

look for clues that we might not be the

2386

01:54:25,850 --> 01:54:24,060

smartest kid on the block that's all you

2387

01:54:28,310 --> 01:54:25,860

are the smartest kid on the Block our

2388

01:54:29,870 --> 01:54:28,320

guest tonight is Professor avilobe of

2389

01:54:32,570 --> 01:54:29,880

Harvard I'm your host Jimmy church this

2390

01:54:35,870 --> 01:54:32,580

is Fade to Black we are discussing his

2391

01:54:39,109 --> 01:54:35,880

Galileo Project funding for it and the

2392

01:54:41,330 --> 01:54:39,119

links for it are up in our social media

2393

01:54:43,129 --> 01:54:41,340

Pages all of them we're going to take a

2394

01:54:44,250 --> 01:54:43,139

short break more with Avi when we come

2395

01:54:50,149 --> 01:54:44,260

back stay with us

2396

01:54:53,229 --> 01:54:50,159

[Music]

2397

01:55:01,030 --> 01:54:55,609

hi everybody this is Rob Halford the

2398

01:55:07,430 --> 01:55:04,189

this is kgra digital broadcasting

2399

01:55:10,189 --> 01:55:07,440

station Salt Lake City Utah Van Buren

2400

01:55:12,290 --> 01:55:10,199

Arkansas why is it we're not very good

2401
01:55:14,209 --> 01:55:12,300
with our health regiment until it's too

2402
01:55:16,189 --> 01:55:14,219
late we don't put oil in the car until

2403
01:55:18,589 --> 01:55:16,199
the engine blows up when the body's out

2404
01:55:20,990 --> 01:55:18,599
of balance your health is not so good

2405
01:55:24,530 --> 01:55:21,000
give your body some love log on to

2406
01:55:26,450 --> 01:55:24,540
getthet.com that's get the tea.com try

2407
01:55:29,629 --> 01:55:26,460
our life change tea which cleanses you

2408
01:55:31,250 --> 01:55:29,639
from harmful Intruders a clean colon is

2409
01:55:33,290 --> 01:55:31,260
one of the ways to bring the body in

2410
01:55:35,390 --> 01:55:33,300
balance we also carry organic

2411
01:55:37,970 --> 01:55:35,400
supplements to help you get where you

2412
01:55:41,330 --> 01:55:37,980
need to go so do your body a favor log

2413
01:55:44,450 --> 01:55:41,340

on to get the t.com that's get the t t e

2414

01:55:46,910 --> 01:55:44,460

a.com you can even visit our sales page

2415

01:55:49,310 --> 01:55:46,920

to save some dough does anybody call

2416

01:55:51,530 --> 01:55:49,320

Money dough anymore anyway if you're

2417

01:55:54,169 --> 01:55:51,540

looking for short helpful health tips go

2418

01:55:57,970 --> 01:55:54,179

to YouTube and punch in health matters

2419

01:56:02,270 --> 01:55:57,980

now that's Health matters now

2420

01:56:04,669 --> 01:56:02,280

so log on to getthet.com shop get

2421

01:56:07,010 --> 01:56:04,679

balanced then learn some cool tips at

2422

01:56:09,729 --> 01:56:07,020

Health matters now you'll be glad you

2423

01:56:12,350 --> 01:56:09,739

did that's getthet.com

2424

01:56:16,970 --> 01:56:12,360

your contact for current news and

2425

01:56:18,830 --> 01:56:16,980

trending topics kgra radio.com

2426
01:56:22,250 --> 01:56:18,840
this is Jimmy Church of Fade to Black

2427
01:56:25,609 --> 01:56:22,260
and I only drink Fade to Black Blend

2428
01:56:27,550 --> 01:56:25,619
Coffee from River Moon just click on the

2429
01:56:30,709 --> 01:56:27,560
river Moon coffee Banner at

2430
01:56:32,149 --> 01:56:30,719
jimmychurchradio.com promo code f2b

2431
01:56:43,310 --> 01:56:32,159
blend

2432
01:56:43,320 --> 01:56:47,089
[Music]

2433
01:56:52,250 --> 01:56:49,189
when you're in the house for longer

2434
01:56:54,490 --> 01:56:52,260
periods of time you can see them flying

2435
01:56:58,430 --> 01:56:54,500
or running across the floor

2436
01:57:03,169 --> 01:56:58,440
ooh yuck they're unhealthy gross and

2437
01:57:05,689 --> 01:57:03,179
disgusting bugs I loathe bugs we keep a

2438
01:57:08,930 --> 01:57:05,699

clean home but occasionally bugs show up

2439

01:57:12,649 --> 01:57:08,940

well I found something that is tougher

2440

01:57:16,129 --> 01:57:12,659

than bugs Orange Guard on contact it

2441

01:57:19,310 --> 01:57:16,139

kills hidden bugs including ants roaches

2442

01:57:21,649 --> 01:57:19,320

and fleas plus Orange Guard is a

2443

01:57:23,629 --> 01:57:21,659

residual repellent all of the

2444

01:57:26,390 --> 01:57:23,639

ingredients of orange guard are on the

2445

01:57:28,910 --> 01:57:26,400

FDA generally recognized as safe list

2446

01:57:32,870 --> 01:57:28,920

Orange Guard may be used around food

2447

01:57:35,750 --> 01:57:32,880

humans and pets it comes with a 30-day

2448

01:57:40,010 --> 01:57:35,760

money-back guarantee Orange Guard

2449

01:57:42,370 --> 01:57:40,020

available at orangeguard.com Whole Foods

2450

01:57:46,189 --> 01:57:42,380

and Ace Hardware

2451

01:57:48,649 --> 01:57:46,199

gold loves chaos uncertainty and

2452

01:57:50,689 --> 01:57:48,659

disarray history shows us what gold does

2453

01:57:52,310 --> 01:57:50,699

when people aren't sure aren't sure

2454

01:57:55,129 --> 01:57:52,320

about the government the stock market

2455

01:57:57,950 --> 01:57:55,139

their jobs or their retirement savings

2456

01:57:59,870 --> 01:57:57,960

our national debt is skyrocketing gold

2457

01:58:02,089 --> 01:57:59,880

and other precious metals are a defense

2458

01:58:04,669 --> 01:58:02,099

measure against inflation and a stock

2459

01:58:07,129 --> 01:58:04,679

market that might take years to recover

2460

01:58:09,470 --> 01:58:07,139

so what can you do right now to protect

2461

01:58:11,149 --> 01:58:09,480

yourself called United Gold group we

2462

01:58:14,450 --> 01:58:11,159

offer gold and other precious metals

2463

01:58:16,370 --> 01:58:14,460

delivered securely within 72 hours are

2464

01:58:17,810 --> 01:58:16,380

you worried about this

2465

01:58:20,390 --> 01:58:17,820

Market

2466

01:58:24,770 --> 01:58:20,400

we can also help you set up a real gold

2467

01:58:26,990 --> 01:58:24,780

or silver Ira or a 401k safe and secure

2468

01:58:30,109 --> 01:58:27,000

United Gold group makes gold ownership

2469

01:58:32,810 --> 01:58:30,119

affordable call now and get up to 2500

2470

01:58:36,850 --> 01:58:32,820

in free gold or silver with a qualified

2471

01:58:36,860 --> 01:58:40,629

800-753-8534 that's

2472

01:58:46,149 --> 01:58:42,169

800-753-8534 or visit

2473

01:58:46,159 --> 01:58:51,729

thank you

2474

01:58:59,629 --> 01:58:55,910

you want to know a secret I love police

2475

01:59:01,550 --> 01:58:59,639

I really love ponies I'm serious I

2476
01:59:05,570 --> 01:59:01,560
couldn't stay sane with that pole needs

2477
01:59:10,750 --> 01:59:05,580
to brush why Fade to Black because you

2478
01:59:16,189 --> 01:59:13,310
this is Fade to Black with Jimmy Church

2479
01:59:20,540 --> 01:59:16,199
on the game changer radio network and

2480
01:59:31,689 --> 01:59:20,550
kgra the global radio Alliance

2481
01:59:36,530 --> 01:59:33,950
welcome back this is Fade to Black I'm

2482
01:59:39,589 --> 01:59:36,540
here with Jimmy church tonight Professor

2483
01:59:41,930 --> 01:59:39,599
Avi Loeb we are discussing the Galileo

2484
01:59:44,450 --> 01:59:41,940
project and once again we've got links

2485
01:59:47,450 --> 01:59:44,460
up for funding for you to help support

2486
01:59:50,209 --> 01:59:47,460
the project the links are up in social

2487
01:59:54,050 --> 01:59:50,219
media let's get straight back to it I

2488
01:59:57,350 --> 01:59:54,060

want to uh take this last uh segment Avi

2489

02:00:00,890 --> 01:59:57,360

with you to discuss some points of the

2490

02:00:04,149 --> 02:00:00,900

UAP task force report highly anticipated

2491

02:00:07,010 --> 02:00:04,159

and I think that there were

2492

02:00:10,270 --> 02:00:07,020

large segments of not only the UFO

2493

02:00:14,990 --> 02:00:10,280

Community but uh the public in general

2494

02:00:15,950 --> 02:00:15,000

that were anticipating disclosure some

2495

02:00:19,070 --> 02:00:15,960

type of

2496

02:00:22,010 --> 02:00:19,080

ET component to this not necessarily you

2497

02:00:24,770 --> 02:00:22,020

know Little Green Men but acknowledgment

2498

02:00:28,550 --> 02:00:24,780

of something that was not of this Earth

2499

02:00:30,770 --> 02:00:28,560

report came out on June 25th uh you read

2500

02:00:33,350 --> 02:00:30,780

the public portion of it uh what went

2501

02:00:35,689 --> 02:00:33,360

through your mind

2502

02:00:39,830 --> 02:00:35,699

um the the evidence that was released

2503

02:00:43,609 --> 02:00:39,840

was not convincing but uh perhaps there

2504

02:00:46,370 --> 02:00:43,619

is a an iceberg under the water that we

2505

02:00:50,169 --> 02:00:46,380

don't see that we see just the tip-off

2506

02:00:52,970 --> 02:00:50,179

and and the reason I say that is because

2507

02:00:55,609 --> 02:00:52,980

people that I respect serious people

2508

02:00:57,890 --> 02:00:55,619

argue that when they saw the classified

2509

02:00:59,390 --> 02:00:57,900

component of the report they were

2510

02:01:01,970 --> 02:00:59,400

convinced that these are real objects

2511

02:01:04,850 --> 02:01:01,980

you need to serious matter so to me that

2512

02:01:06,589 --> 02:01:04,860

is sufficient to trigger interest as a

2513

02:01:10,910 --> 02:01:06,599

scientist and trying to collect similar

2514

02:01:14,089 --> 02:01:10,920

data high quality data and you know some

2515

02:01:16,850 --> 02:01:14,099

of the data that was released uh was

2516

02:01:18,770 --> 02:01:16,860

based on a jittery camera in the cockpit

2517

02:01:22,729 --> 02:01:18,780

of a fighter jet and you know it's not

2518

02:01:24,770 --> 02:01:22,739

the best way to collect data on a UAP

2519

02:01:27,290 --> 02:01:24,780

and that's why we want to have full

2520

02:01:30,470 --> 02:01:27,300

control over the instruments we have and

2521

02:01:32,330 --> 02:01:30,480

the other thing is the claim was in the

2522

02:01:34,850 --> 02:01:32,340

report that that was quite interesting

2523

02:01:36,770 --> 02:01:34,860

that some of the objects must be real

2524

02:01:39,790 --> 02:01:36,780

because they were detected by multiple

2525

02:01:44,050 --> 02:01:39,800

instruments and that means infrared

2526
02:01:47,089 --> 02:01:44,060
sensors and radar systems and Optical

2527
02:01:49,570 --> 02:01:47,099
cameras and so forth and and were seen

2528
02:01:52,490 --> 02:01:49,580
by multiple people and to me that was

2529
02:01:54,470 --> 02:01:52,500
very important because you can always

2530
02:01:56,290 --> 02:01:54,480
argue that it might be a malfunction of

2531
02:01:59,689 --> 02:01:56,300
an instrument some smudge on the camera

2532
02:02:03,550 --> 02:01:59,699
apparently it's not the case because

2533
02:02:06,410 --> 02:02:03,560
or some of the objects were seen

2534
02:02:09,229 --> 02:02:06,420
and once again it says it's a serious

2535
02:02:11,689 --> 02:02:09,239
matter I don't you know I don't know for

2536
02:02:13,729 --> 02:02:11,699
sure whether all the objects have

2537
02:02:16,430 --> 02:02:13,739
mundane explanations maybe most of them

2538
02:02:18,770 --> 02:02:16,440

do maybe it's a mixed bag uh the point

2539

02:02:20,510 --> 02:02:18,780

is that the scientists It's Our

2540

02:02:22,790 --> 02:02:20,520

obligation to help the government in

2541

02:02:24,350 --> 02:02:22,800

figuring out the nature of things that

2542

02:02:27,530 --> 02:02:24,360

the government doesn't fully understand

2543

02:02:31,189 --> 02:02:27,540

and I see it as an obligation to to do

2544

02:02:32,689 --> 02:02:31,199

this uh you know the uh the government

2545

02:02:34,430 --> 02:02:32,699

is really the most conservative

2546

02:02:36,290 --> 02:02:34,440

organization we have and scientists

2547

02:02:38,030 --> 02:02:36,300

should be open-minded but it seems to be

2548

02:02:40,669 --> 02:02:38,040

the other way around the government is

2549

02:02:43,550 --> 02:02:40,679

talking about it and move on to ignore

2550

02:02:46,250 --> 02:02:43,560

it and I just find it unacceptable

2551

02:02:50,810 --> 02:02:46,260

were you uh

2552

02:02:53,930 --> 02:02:50,820

um were you hopeful for an E.T component

2553

02:02:58,010 --> 02:02:56,330

um well not based on the data that was

2554

02:03:01,550 --> 02:02:58,020

released it was not conclusive enough

2555

02:03:05,030 --> 02:03:01,560

but um no I mean before the report was

2556

02:03:07,609 --> 02:03:05,040

released were you hopeful for a little

2557

02:03:09,770 --> 02:03:07,619

E.T component well I would have been

2558

02:03:13,310 --> 02:03:09,780

very intrigued I would have been excited

2559

02:03:15,410 --> 02:03:13,320

if there was a definite proof uh that

2560

02:03:17,689 --> 02:03:15,420

would you know would or a definite

2561

02:03:19,910 --> 02:03:17,699

statement that because I'm always

2562

02:03:22,010 --> 02:03:19,920

curious about the world and frankly I

2563

02:03:24,530 --> 02:03:22,020

think that I think it's arrogant of us

2564

02:03:26,870 --> 02:03:24,540

to think that we are you know the

2565

02:03:29,510 --> 02:03:26,880

Pinnacle of creation so to speak that

2566

02:03:31,669 --> 02:03:29,520

there is nothing smarter than us because

2567

02:03:34,370 --> 02:03:31,679

my daughters made this mistake when they

2568

02:03:36,109 --> 02:03:34,380

they were born and were at home and they

2569

02:03:37,310 --> 02:03:36,119

only met their family members they

2570

02:03:39,050 --> 02:03:37,320

thought that they are the smartest in

2571

02:03:41,149 --> 02:03:39,060

the world then I took them to the

2572

02:03:43,370 --> 02:03:41,159

kindergarten they met other kids that

2573

02:03:45,050 --> 02:03:43,380

have better skills you know and that was

2574

02:03:47,569 --> 02:03:45,060

a psychological shock for them on the

2575

02:03:50,030 --> 02:03:47,579

first day at the kindergarten so I

2576

02:03:52,189 --> 02:03:50,040

learned from that and I uh I think the

2577

02:03:54,770 --> 02:03:52,199

best approach to life is to stay modest

2578

02:03:56,689 --> 02:03:54,780

assume that you are nothing special that

2579

02:03:58,490 --> 02:03:56,699

should be your starting point rather

2580

02:04:00,050 --> 02:03:58,500

than argue that you need extraordinary

2581

02:04:03,250 --> 02:04:00,060

evidence before you would believe that

2582

02:04:08,169 --> 02:04:03,260

there is someone as smart as you are

2583

02:04:12,410 --> 02:04:08,179

also wasn't a conclusive

2584

02:04:15,589 --> 02:04:12,420

uh uh conclusions that said it wasn't

2585

02:04:18,709 --> 02:04:15,599

E.T right that was suspiciously missing

2586

02:04:20,990 --> 02:04:18,719

from the report as well that's right and

2587

02:04:24,470 --> 02:04:21,000

that implies that more data or better

2588

02:04:26,290 --> 02:04:24,480

data is is required so but you know at

2589

02:04:28,790 --> 02:04:26,300

the same time the NASA administrator

2590

02:04:31,069 --> 02:04:28,800

Bill Nelson argued that scientists

2591

02:04:33,350 --> 02:04:31,079

should look into that and I think that's

2592

02:04:34,850 --> 02:04:33,360

a natural conclusion that one draws from

2593

02:04:37,129 --> 02:04:34,860

that that you know it's not really

2594

02:04:39,229 --> 02:04:37,139

something you should ask politicians or

2595

02:04:40,910 --> 02:04:39,239

military personnel to do because they

2596

02:04:43,490 --> 02:04:40,920

were not trained as scientists and

2597

02:04:46,790 --> 02:04:43,500

astronomers were trained to figure out

2598

02:04:48,470 --> 02:04:46,800

what things are on the sky so it should

2599

02:04:50,870 --> 02:04:48,480

be the job of astronomers just like you

2600

02:04:53,149 --> 02:04:50,880

wouldn't ask you know a plumber to bake

2601
02:04:56,270 --> 02:04:53,159
you a cake you know that's not his or

2602
02:04:58,189 --> 02:04:56,280
her job you know that what you want is

2603
02:04:59,390 --> 02:04:58,199
the professionals to deal with such data

2604
02:05:02,689 --> 02:04:59,400
and that's what we are trying to do in

2605
02:05:04,550 --> 02:05:02,699
the Galileo project now there was a two

2606
02:05:05,689 --> 02:05:04,560
other points I want uh to get your

2607
02:05:08,629 --> 02:05:05,699
comments on

2608
02:05:10,430 --> 02:05:08,639
in the report it seemed like they were

2609
02:05:11,390 --> 02:05:10,440
pretty confident I'm talking about the

2610
02:05:15,589 --> 02:05:11,400
DIA

2611
02:05:19,129 --> 02:05:15,599
in in stating that well it's not ours

2612
02:05:22,669 --> 02:05:19,139
and it's not foreign technology like

2613
02:05:26,149 --> 02:05:22,679

Russia and China now that's that was as

2614

02:05:27,350 --> 02:05:26,159

it's definitive as anything that was

2615

02:05:30,830 --> 02:05:27,360

stated

2616

02:05:33,709 --> 02:05:30,840

in the report well what's left

2617

02:05:36,470 --> 02:05:33,719

right so they had enough data you're a

2618

02:05:38,390 --> 02:05:36,480

data guy right they had enough data to

2619

02:05:40,609 --> 02:05:38,400

make those extraordinary statements

2620

02:05:43,189 --> 02:05:40,619

right but they're not saying this so

2621

02:05:45,649 --> 02:05:43,199

they won't go in other directions and

2622

02:05:48,530 --> 02:05:45,659

that's where we astronomers have to

2623

02:05:50,870 --> 02:05:48,540

examine similar data science is about to

2624

02:05:52,609 --> 02:05:50,880

reproducibility of results so if what

2625

02:05:54,290 --> 02:05:52,619

they are saying is correct and there are

2626
02:05:56,870 --> 02:05:54,300
objects out there that may not be human

2627
02:06:00,410 --> 02:05:56,880
made anyone should be able to see them

2628
02:06:02,870 --> 02:06:00,420
and we will just use even better Scopes

2629
02:06:04,430 --> 02:06:02,880
than they were using and see what we

2630
02:06:07,430 --> 02:06:04,440
find you know it's like a fishing

2631
02:06:09,890 --> 02:06:07,440
Expedition you throw the hooks and in

2632
02:06:13,069 --> 02:06:09,900
our case the hooks are these uh

2633
02:06:15,109 --> 02:06:13,079
telescope systems and without assuming

2634
02:06:17,169 --> 02:06:15,119
what kind of fish you will find whatever

2635
02:06:18,830 --> 02:06:17,179
we find we will report

2636
02:06:21,770 --> 02:06:18,840
now

2637
02:06:23,870 --> 02:06:21,780
um what did you and I want to hear you

2638
02:06:27,050 --> 02:06:23,880

laugh okay I just want you to laugh for

2639

02:06:28,910 --> 02:06:27,060

the audience what did you think as you

2640

02:06:31,129 --> 02:06:28,920

read through the report and they had

2641

02:06:33,709 --> 02:06:31,139

category one category two category three

2642

02:06:37,810 --> 02:06:33,719

and then they had the I'm doing air

2643

02:06:40,970 --> 02:06:37,820

quotes the other Ben right right

2644

02:06:42,410 --> 02:06:40,980

so the other is exactly what we are

2645

02:06:44,930 --> 02:06:42,420

interested in

2646

02:06:46,189 --> 02:06:44,940

um and for us it would be the focus of

2647

02:06:50,689 --> 02:06:46,199

our attention

2648

02:06:52,790 --> 02:06:50,699

so um we will split that bin into a

2649

02:06:54,729 --> 02:06:52,800

natural phenomena in the atmosphere you

2650

02:06:57,709 --> 02:06:54,739

know something unusual

2651
02:07:00,109 --> 02:06:57,719
or a piece of equipment from another

2652
02:07:02,689 --> 02:07:00,119
technological civilization out there you

2653
02:07:05,810 --> 02:07:02,699
know we will try and figure it out now I

2654
02:07:08,750 --> 02:07:05,820
I like the way that uh you referenced

2655
02:07:12,950 --> 02:07:08,760
you know some type of self-replicating

2656
02:07:14,569 --> 02:07:12,960
3D printing existence and if we if we

2657
02:07:16,669 --> 02:07:14,579
last long enough we'll be doing the same

2658
02:07:19,189 --> 02:07:16,679
thing at one point as two as well that's

2659
02:07:22,010 --> 02:07:19,199
what we're going to do right

2660
02:07:26,149 --> 02:07:22,020
um when we're talking about uaps UFOs

2661
02:07:27,830 --> 02:07:26,159
things not of this Earth You know let's

2662
02:07:29,990 --> 02:07:27,840
be very clear here

2663
02:07:31,270 --> 02:07:30,000

do you think that there is the

2664

02:07:36,169 --> 02:07:31,280

possibility

2665

02:07:39,770 --> 02:07:36,179

that some of these craft may have a

2666

02:07:44,629 --> 02:07:39,780

biological being on board some type of

2667

02:07:47,870 --> 02:07:44,639

not driven by uh intelligence but by an

2668

02:07:50,810 --> 02:07:47,880

intelligent being is that a possibility

2669

02:07:53,270 --> 02:07:50,820

at these distances no I don't think so

2670

02:07:56,149 --> 02:07:53,280

because you know darwinian Evolution did

2671

02:07:58,850 --> 02:07:56,159

not select us or any biological creature

2672

02:08:01,669 --> 02:07:58,860

to survive in space in the long travel

2673

02:08:03,830 --> 02:08:01,679

between Stars even light takes four

2674

02:08:06,229 --> 02:08:03,840

years to get to us from the nearest star

2675

02:08:08,030 --> 02:08:06,239

and it would take tens of thousands of

2676
02:08:10,609 --> 02:08:08,040
years to get from the edge of the Milky

2677
02:08:12,709 --> 02:08:10,619
Way galaxy so and that's light nothing

2678
02:08:14,930 --> 02:08:12,719
can travel faster than light and if you

2679
02:08:16,490 --> 02:08:14,940
were to use Rockets to travel a hundred

2680
02:08:19,550 --> 02:08:16,500
light years would take a million years

2681
02:08:21,890 --> 02:08:19,560
and these are very long times we

2682
02:08:23,629 --> 02:08:21,900
wouldn't survive for sure and then you

2683
02:08:25,550 --> 02:08:23,639
know if we stay in space for more than a

2684
02:08:28,430 --> 02:08:25,560
year cosmic rays damage a significant

2685
02:08:30,910 --> 02:08:28,440
fraction of the cells in our brain so we

2686
02:08:33,770 --> 02:08:30,920
are not designed to travel in space but

2687
02:08:36,229 --> 02:08:33,780
electronic equipment can survive and

2688
02:08:39,470 --> 02:08:36,239

that's why I say makes more sense to

2689

02:08:41,810 --> 02:08:39,480

send uh AI systems artificial

2690

02:08:44,209 --> 02:08:41,820

intelligence because they would survive

2691

02:08:46,729 --> 02:08:44,219

the long journey and they could outsmart

2692

02:08:48,649 --> 02:08:46,739

us you know we let them drive cars now

2693

02:08:50,689 --> 02:08:48,659

and in the future you know we would

2694

02:08:52,490 --> 02:08:50,699

trust them more than humans when they go

2695

02:08:54,950 --> 02:08:52,500

modern astronauts when they go into

2696

02:08:56,930 --> 02:08:54,960

space they can survive the journey they

2697

02:08:59,510 --> 02:08:56,940

don't lose their patience over millions

2698

02:09:00,609 --> 02:08:59,520

of years and they can do the job so I

2699

02:09:04,609 --> 02:09:00,619

don't expect

2700

02:09:06,410 --> 02:09:04,619

creatures to be on you know vehicles

2701
02:09:08,350 --> 02:09:06,420
that travel for millions of years I

2702
02:09:11,629 --> 02:09:08,360
don't expect that I do expect

2703
02:09:14,330 --> 02:09:11,639
technological equipment AI systems and

2704
02:09:16,550 --> 02:09:14,340
at the end of the day it would be our AI

2705
02:09:19,609 --> 02:09:16,560
systems that we use to interpret their

2706
02:09:21,770 --> 02:09:19,619
AI systems just like we rely on our kids

2707
02:09:25,010 --> 02:09:21,780
to tell us content that we find in the

2708
02:09:27,649 --> 02:09:25,020
internet that we cannot really because

2709
02:09:30,530 --> 02:09:27,659
are more

2710
02:09:32,569 --> 02:09:30,540
kids and so in in the same fashion we

2711
02:09:35,870 --> 02:09:32,579
will use our computer to

2712
02:09:37,569 --> 02:09:35,880
to interpret their computers now

2713
02:09:39,709 --> 02:09:37,579

I

2714

02:09:41,750 --> 02:09:39,719

want you to

2715

02:09:46,490 --> 02:09:41,760

um just go with me on this

2716

02:09:49,609 --> 02:09:46,500

when we go back to 1905 1915 1917 we go

2717

02:09:52,310 --> 02:09:49,619

back to that era where we knew about

2718

02:09:55,490 --> 02:09:52,320

three dimensions and we know about X Y

2719

02:09:57,950 --> 02:09:55,500

and Z and then we introduce uh the

2720

02:09:59,930 --> 02:09:57,960

element of time okay so now we've got a

2721

02:10:02,450 --> 02:09:59,940

fourth thing to talk about Einstein's

2722

02:10:05,629 --> 02:10:02,460

got space time and it's possible to bend

2723

02:10:08,629 --> 02:10:05,639

this uh with uh with a large object in

2724

02:10:10,729 --> 02:10:08,639

space and this is something that needs

2725

02:10:13,089 --> 02:10:10,739

to be discussed because this is reality

2726

02:10:17,030 --> 02:10:13,099

well okay

2727

02:10:19,450 --> 02:10:17,040

if something is a billion years or half

2728

02:10:22,790 --> 02:10:19,460

a billion years in front of us

2729

02:10:25,910 --> 02:10:22,800

would you anticipate the ability to take

2730

02:10:28,870 --> 02:10:25,920

advantage of space-time and maybe even

2731

02:10:32,990 --> 02:10:28,880

eliminate those gaps in space-time where

2732

02:10:35,510 --> 02:10:33,000

traveling uh uh 10 000 light years is

2733

02:10:38,330 --> 02:10:35,520

not traveling 10 000 light years you're

2734

02:10:41,030 --> 02:10:38,340

traveling that distance

2735

02:10:43,609 --> 02:10:41,040

in a in a fraction of a second where

2736

02:10:46,430 --> 02:10:43,619

you're just if it's possible to do it

2737

02:10:49,010 --> 02:10:46,440

then obviously that would be a great uh

2738

02:10:53,330 --> 02:10:49,020

thing to use but as far as we know the

2739

02:10:55,790 --> 02:10:53,340

we cannot build wormholes or bridges in

2740

02:11:00,109 --> 02:10:55,800

space and time the way that some people

2741

02:11:02,629 --> 02:11:00,119

want us or imagine us to do and so it's

2742

02:11:05,030 --> 02:11:02,639

still very far away as far as our

2743

02:11:07,750 --> 02:11:05,040

understanding goes and for example in

2744

02:11:11,990 --> 02:11:07,760

the Galileo project we will not imagine

2745

02:11:14,629 --> 02:11:12,000

uh laws of physics or deviations from

2746

02:11:17,149 --> 02:11:14,639

what we know about physics until we are

2747

02:11:19,310 --> 02:11:17,159

really forced into that and so at first

2748

02:11:22,669 --> 02:11:19,320

we will try to interpret whatever we see

2749

02:11:25,790 --> 02:11:22,679

using our understanding of physics right

2750

02:11:27,589 --> 02:11:25,800

now uh in principle if we see something

2751

02:11:29,930 --> 02:11:27,599

really that cannot be explained

2752

02:11:33,229 --> 02:11:29,940

otherwise you know it would be even a

2753

02:11:34,850 --> 02:11:33,239

more exciting Discovery because not only

2754

02:11:38,689 --> 02:11:34,860

we will find evidence for other

2755

02:11:40,310 --> 02:11:38,699

Technologies but also we will rely is

2756

02:11:42,229 --> 02:11:40,320

something about nature that applies

2757

02:11:44,270 --> 02:11:42,239

everywhere you know because the laws of

2758

02:11:45,830 --> 02:11:44,280

physics are everywhere in the universe

2759

02:11:48,830 --> 02:11:45,840

you know that they're supposed to be the

2760

02:11:52,430 --> 02:11:48,840

same so if we make such a discovery it

2761

02:11:55,609 --> 02:11:52,440

would be even bigger well okay and I and

2762

02:11:58,250 --> 02:11:55,619

I understand staying inside of the laws

2763

02:12:01,189 --> 02:11:58,260

of physics uh getting outside of the

2764

02:12:04,430 --> 02:12:01,199

laws of physics that that you you're

2765

02:12:07,729 --> 02:12:04,440

you're you're in trouble there but

2766

02:12:09,830 --> 02:12:07,739

if if I want to go back to your analogy

2767

02:12:12,830 --> 02:12:09,840

uh you know to a cell phone being

2768

02:12:14,810 --> 02:12:12,840

discovered by a caveman well in in the

2769

02:12:19,910 --> 02:12:14,820

same respect

2770

02:12:23,629 --> 02:12:19,920

um us driving to the store to get a

2771

02:12:26,089 --> 02:12:23,639

gallon of milk 200 300 years ago would

2772

02:12:27,649 --> 02:12:26,099

seem like magic but it's easy for us we

2773

02:12:29,870 --> 02:12:27,659

get the keys to the car we drive down

2774

02:12:32,890 --> 02:12:29,880

the block we come back whatever you know

2775

02:12:37,010 --> 02:12:32,900

or flying to a to Hawaii for a vacation

2776

02:12:38,750 --> 02:12:37,020

that is Magic 300 years ago but it's

2777

02:12:42,109 --> 02:12:38,760

easy for us to do today and we don't

2778

02:12:45,290 --> 02:12:42,119

think twice about it that technology for

2779

02:12:48,410 --> 02:12:45,300

et wouldn't be difficult

2780

02:12:51,589 --> 02:12:48,420

it's easy right there's some law in

2781

02:12:54,050 --> 02:12:51,599

nature that they clearly understand that

2782

02:12:56,270 --> 02:12:54,060

we aren't anywhere near right now yeah

2783

02:12:59,330 --> 02:12:56,280

it's possible and and that would be a

2784

02:13:01,370 --> 02:12:59,340

major Discovery I agree but at first we

2785

02:13:03,050 --> 02:13:01,380

will try to use what we understand and

2786

02:13:05,870 --> 02:13:03,060

see if we can interpret what's happening

2787

02:13:07,250 --> 02:13:05,880

and if we are forced with our back to

2788

02:13:09,770 --> 02:13:07,260

the water kind of we can't really

2789

02:13:12,109 --> 02:13:09,780

explain what we see then we'll collect

2790

02:13:14,510 --> 02:13:12,119

even more data and we learn something

2791

02:13:17,030 --> 02:13:14,520

even more fundamental I that you know

2792

02:13:20,169 --> 02:13:17,040

that's always the case and that's what

2793

02:13:22,790 --> 02:13:20,179

would make such a discovery exciting and

2794

02:13:25,430 --> 02:13:22,800

science should be done without prejudice

2795

02:13:28,490 --> 02:13:25,440

so if something like that shows up I

2796

02:13:31,430 --> 02:13:28,500

would be thrilled but I'm not expecting

2797

02:13:33,350 --> 02:13:31,440

that at first because you know until we

2798

02:13:37,370 --> 02:13:33,360

see it I wouldn't I wouldn't imagine it

2799

02:13:40,129 --> 02:13:37,380

yeah I I uh I want to uh I want to share

2800

02:13:43,370 --> 02:13:40,139

with you a quote you've seen or you know

2801
02:13:44,990 --> 02:13:43,380
of the show uh Ancient Aliens and you

2802
02:13:48,169 --> 02:13:45,000
know Giorgio sukulos the guy with the

2803
02:13:49,669 --> 02:13:48,179
hair right you know Georgia okay so he's

2804
02:13:53,450 --> 02:13:49,679
been on the show many times his great

2805
02:13:56,569 --> 02:13:53,460
friend and and neighbor but uh he said

2806
02:13:59,589 --> 02:13:56,579
one thing to me Avi uh a few years ago

2807
02:14:02,629 --> 02:13:59,599
on the show and I've repeated this quote

2808
02:14:05,089 --> 02:14:02,639
so often and it's this he goes look man

2809
02:14:06,530 --> 02:14:05,099
I don't know what's going on but I can

2810
02:14:10,069 --> 02:14:06,540
tell you this

2811
02:14:12,470 --> 02:14:10,079
if uh E.T that Flying Saucer lands on

2812
02:14:14,510 --> 02:14:12,480
the White House lawn the stairs come

2813
02:14:18,709 --> 02:14:14,520

down E.T comes down and we start talking

2814

02:14:23,030 --> 02:14:18,719

to him we will find out that we were all

2815

02:14:25,550 --> 02:14:23,040

wrong right that's it no matter what

2816

02:14:28,910 --> 02:14:25,560

theories no matter what what no

2817

02:14:30,890 --> 02:14:28,920

everything that we were all wrong

2818

02:14:32,870 --> 02:14:30,900

and I think that's the best way to look

2819

02:14:34,910 --> 02:14:32,880

at it there's no way that we can have

2820

02:14:37,810 --> 02:14:34,920

the right answers right now we have to

2821

02:14:40,189 --> 02:14:37,820

continue to search definitely I mean

2822

02:14:41,990 --> 02:14:40,199

obviously searching and looking for

2823

02:14:45,890 --> 02:14:42,000

evidence would be the way to go because

2824

02:14:48,649 --> 02:14:45,900

that's how science should be guided uh

2825

02:14:50,450 --> 02:14:48,659

and then you know I'll be glad to appear

2826

02:14:54,290 --> 02:14:50,460

on your show if we see something unusual

2827

02:14:56,450 --> 02:14:54,300

and we talk about it if if science

2828

02:14:58,089 --> 02:14:56,460

fiction becomes science that I wouldn't

2829

02:15:02,089 --> 02:14:58,099

be more delighted

2830

02:15:03,950 --> 02:15:02,099

one last uh uh thing uh before uh we say

2831

02:15:05,930 --> 02:15:03,960

uh good night now again I want to thank

2832

02:15:07,970 --> 02:15:05,940

you in advance you're a very very busy

2833

02:15:10,970 --> 02:15:07,980

guy but uh we love having you on the

2834

02:15:13,910 --> 02:15:10,980

show thank you for taking the time is if

2835

02:15:16,189 --> 02:15:13,920

if if E.T and it goes both directions we

2836

02:15:20,089 --> 02:15:16,199

can talk about seti too as well but if

2837

02:15:22,089 --> 02:15:20,099

E.T picked up uh picks up on our uh

2838

02:15:25,270 --> 02:15:22,099

radio Transmissions

2839

02:15:28,750 --> 02:15:25,280

would it would it or wouldn't it

2840

02:15:31,790 --> 02:15:28,760

correlate with their own sense of time

2841

02:15:34,910 --> 02:15:31,800

in other words could it be descrambled

2842

02:15:37,069 --> 02:15:34,920

would they even understand and if we

2843

02:15:39,410 --> 02:15:37,079

were intercepting their radio signals it

2844

02:15:44,030 --> 02:15:39,420

may just sound like noise to us and not

2845

02:15:45,470 --> 02:15:44,040

anything logical right and or or that's

2846

02:15:48,649 --> 02:15:45,480

an excellent question in in

2847

02:15:50,569 --> 02:15:48,659

communication is a great challenge first

2848

02:15:52,189 --> 02:15:50,579

you have to figure out the meaning of

2849

02:15:55,370 --> 02:15:52,199

what of the signal that you're getting

2850

02:15:57,649 --> 02:15:55,380

and uh figuring out their intent is

2851

02:16:00,410 --> 02:15:57,659

really complicated and and that's a

2852

02:16:04,250 --> 02:16:00,420

subject for a full two-hour discussion

2853

02:16:06,109 --> 02:16:04,260

you know the it boils to Linguistics you

2854

02:16:07,910 --> 02:16:06,119

know and and the breaking of codes

2855

02:16:10,729 --> 02:16:07,920

because when you think about breaking

2856

02:16:13,490 --> 02:16:10,739

the Enigma for example that the Alan

2857

02:16:15,530 --> 02:16:13,500

Turing was engaged in it's sort of like

2858

02:16:17,030 --> 02:16:15,540

seeing something enigmatic something

2859

02:16:18,470 --> 02:16:17,040

that you don't fully understand and

2860

02:16:21,169 --> 02:16:18,480

trying to figure it out the meaning

2861

02:16:25,550 --> 02:16:21,179

behind it and that that happened during

2862

02:16:27,950 --> 02:16:25,560

the world War and the same can be done

2863

02:16:31,550 --> 02:16:27,960

you know in the context of a signal we

2864

02:16:33,709 --> 02:16:31,560

get from space and uh and and then there

2865

02:16:36,530 --> 02:16:33,719

is the question of what kind of uh

2866

02:16:38,509 --> 02:16:36,540

language not only uh symbols they are

2867

02:16:41,570 --> 02:16:38,519

using what kind of medium they are using

2868

02:16:43,910 --> 02:16:41,580

to relay that those sentences and how to

2869

02:16:46,250 --> 02:16:43,920

figure them out and that's a very

2870

02:16:50,089 --> 02:16:46,260

interesting and challenging question and

2871

02:16:53,450 --> 02:16:50,099

I I I wish us to be in in a place where

2872

02:16:55,849 --> 02:16:53,460

this would become a real challenge for

2873

02:16:58,070 --> 02:16:55,859

us once we figure out that we are not

2874

02:16:59,750 --> 02:16:58,080

alone yeah I've often thought about you

2875

02:17:03,110 --> 02:16:59,760

know we're we're sending out you know

2876

02:17:06,830 --> 02:17:03,120

Carl Sagan and these equations and and

2877

02:17:09,049 --> 02:17:06,840

suggestions of numbers and and and that

2878

02:17:11,990 --> 02:17:09,059

would be in our radio and and ET would

2879

02:17:15,370 --> 02:17:12,000

just show up here and go dude we gave up

2880

02:17:18,290 --> 02:17:15,380

on numbers a billion years ago

2881

02:17:19,250 --> 02:17:18,300

it's not what we do now we're Way Beyond

2882

02:17:22,549 --> 02:17:19,260

math

2883

02:17:24,169 --> 02:17:22,559

yeah it's quite possible but let's keep

2884

02:17:26,690 --> 02:17:24,179

our eyes open and for now look for

2885

02:17:29,509 --> 02:17:26,700

unusual things and that that will be

2886

02:17:31,669 --> 02:17:29,519

sort of the thread that would lead us in

2887

02:17:34,610 --> 02:17:31,679

the right direction Professor Loeb again

2888

02:17:37,969 --> 02:17:34,620

thank you so much I'm so excited about

2889

02:17:40,730 --> 02:17:37,979

the Galileo project uh its time has come

2890

02:17:44,570 --> 02:17:40,740

it it's it should have been done a

2891

02:17:46,309 --> 02:17:44,580

while ago but now it is here it's a big

2892

02:17:48,290 --> 02:17:46,319

challenge you've got a lot in front of

2893

02:17:50,629 --> 02:17:48,300

you but thank you for being a part of

2894

02:17:52,070 --> 02:17:50,639

our team and and Mother Earth thank you

2895

02:17:54,169 --> 02:17:52,080

so much my friend

2896

02:17:55,389 --> 02:17:54,179

thanks for hosting me Jimmy I'll talk to

2897

02:17:59,509 --> 02:17:55,399

you soon

2898

02:18:02,750 --> 02:17:59,519

Professor Avi Loeb I am going to take a

2899

02:18:04,429 --> 02:18:02,760

quick break all of the links are up not

2900

02:18:08,650 --> 02:18:04,439

only in social media but if you go over

2901
02:18:10,790 --> 02:18:08,660
to our website there it is right there

2902
02:18:17,629 --> 02:18:10,800
projects.iq.harvard.edu forward slash

2903
02:18:22,129 --> 02:18:19,669
I'll be right back after this short

2904
02:18:23,420 --> 02:18:22,139
break to get to some of your phone calls

2905
02:18:25,129 --> 02:18:23,430
stay with us

2906
02:18:27,020 --> 02:18:25,139
[Music]

2907
02:18:49,330 --> 02:18:27,030
foreign

2908
02:18:55,070 --> 02:18:52,270
ature.com

2909
02:19:03,650 --> 02:18:55,080
despite popular opinion

2910
02:19:08,209 --> 02:19:05,330
this is Jimmy Church of Fade to Black

2911
02:19:11,809 --> 02:19:08,219
and I take life change tea supplements

2912
02:19:17,270 --> 02:19:11,819
every single day it's what I do click on

2913
02:19:22,309 --> 02:19:19,490

when you take the beans from Central

2914

02:19:24,770 --> 02:19:22,319

America with dashes of Indonesian and

2915

02:19:27,770 --> 02:19:24,780

African mixed in and then roasted to the

2916

02:19:31,129 --> 02:19:27,780

dark side of Fade to Black you create

2917

02:19:33,830 --> 02:19:31,139

the ultimate Brew of Fringe introducing

2918

02:19:37,129 --> 02:19:33,840

the Fade to Black blend from River Moon

2919

02:19:39,709 --> 02:19:37,139

coffee yes River Moon's darkest

2920

02:19:41,990 --> 02:19:39,719

customized roast was created for the

2921

02:19:44,929 --> 02:19:42,000

love of Fade to Black

2922

02:19:47,570 --> 02:19:44,939

the Alchemy of masterful roasting and

2923

02:19:51,110 --> 02:19:47,580

smoking the beans is in every sip of

2924

02:19:53,870 --> 02:19:51,120

this full-bodied dark Jabba I need my

2925

02:19:56,150 --> 02:19:53,880

coffee doc deep with distinct

2926

02:19:59,090 --> 02:19:56,160

bittersweet chocolate highlights just

2927

02:20:01,490 --> 02:19:59,100

like the bunker leaning further into the

2928

02:20:04,670 --> 02:20:01,500

darkness of the roast is Fade to Black

2929

02:20:06,590 --> 02:20:04,680

blend from River Moon coffee just click

2930

02:20:10,010 --> 02:20:06,600

on the banner at jimmychurchradio.com

2931

02:20:13,750 --> 02:20:10,020

and use the promo code f2b blend for 15

2932

02:20:15,889 --> 02:20:13,760

off of your order today

2933

02:20:18,070 --> 02:20:15,899

this is Billy Carson with

2934

02:20:20,870 --> 02:20:18,080

forbiddenknowledge DOT TV

2935

02:20:22,990 --> 02:20:20,880

forbiddenknowledge TV has just reached

2936

02:20:25,849 --> 02:20:23,000

its one year anniversary that's right

2937

02:20:28,550 --> 02:20:25,859

one year and as a show of appreciation

2938

02:20:30,730 --> 02:20:28,560

we are giving all new subscribers a free

2939

02:20:33,770 --> 02:20:30,740

30-day trial of

2940

02:20:35,830 --> 02:20:33,780

forbiddenknowledge.tv that's 30 days to

2941

02:20:38,510 --> 02:20:35,840

binge watch thousands of movies

2942

02:20:41,510 --> 02:20:38,520

documentaries conferences workshops

2943

02:20:43,849 --> 02:20:41,520

lectures yoga classes meditation courses

2944

02:20:46,070 --> 02:20:43,859

and so much more so log on to

2945

02:20:48,290 --> 02:20:46,080

forbiddenknowledge dot TV from your

2946

02:20:51,349 --> 02:20:48,300

computer or mobile device or get the

2947

02:20:55,250 --> 02:20:51,359

Forbidden Knowledge TV app on Apple TV

2948

02:20:59,270 --> 02:20:55,260

Roku Amazon iTunes or Google play today

2949

02:21:02,170 --> 02:20:59,280

and use coupon code 30 days free that's

2950

02:21:05,480 --> 02:21:02,180

coupon code 30 days free on

2951
02:21:08,570 --> 02:21:05,490
forbiddenknowledge.tv today

2952
02:21:10,849 --> 02:21:08,580
[Music]

2953
02:21:13,490 --> 02:21:10,859
are you intrigued by paranormal talk

2954
02:21:16,309 --> 02:21:13,500
radio you love the new paranormal radio

2955
02:21:18,230 --> 02:21:16,319
app from talk stream live

2956
02:21:21,110 --> 02:21:18,240
you'll find a great selection of talk

2957
02:21:23,809 --> 02:21:21,120
shows covering UFOs ghosts strange

2958
02:21:25,969 --> 02:21:23,819
phenomena and much more download the

2959
02:21:28,010 --> 02:21:25,979
Paranormal radio app now and start

2960
02:21:30,050 --> 02:21:28,020
listening to the very best in paranormal

2961
02:21:32,090 --> 02:21:30,060
talk entertainment including the network

2962
02:21:34,910 --> 02:21:32,100
you're listening to right now the

2963
02:21:45,469 --> 02:21:34,920

Paranormal radio app free in Google Play

2964

02:21:54,250 --> 02:21:49,130

it's not a lifestyle we chose we were

2965

02:21:54,260 --> 02:21:58,070

thank you

2966

02:21:58,080 --> 02:22:04,190

this is kjcr at jimmychurch radio.com

2967

02:22:22,870 --> 02:22:14,430

[Music]

2968

02:22:29,210 --> 02:22:25,610

all right Welcome Back Fade to Black I

2969

02:22:34,550 --> 02:22:31,670

that conversation with Avi Loeb was

2970

02:22:38,090 --> 02:22:34,560

recorded well now it was a four hours

2971

02:22:39,830 --> 02:22:38,100

ago it was a two hour interview and uh

2972

02:22:42,050 --> 02:22:39,840

so two hour show minus two hours from

2973

02:22:45,530 --> 02:22:42,060

this so that was recorded literally four

2974

02:22:48,349 --> 02:22:45,540

hours ago all the way up uh to Showtime

2975

02:22:51,170 --> 02:22:48,359

had to do it for a couple of reasons one

2976

02:22:54,469 --> 02:22:51,180

obby's got to teach school he's got

2977

02:22:58,490 --> 02:22:54,479

stuff to do and uh he's on the East

2978

02:23:00,830 --> 02:22:58,500

Coast so keeping him up uh till you know

2979

02:23:03,230 --> 02:23:00,840

uh 1 30 in the morning that's that it's

2980

02:23:06,889 --> 02:23:03,240

not that kind of party with Avi and uh

2981

02:23:10,790 --> 02:23:06,899

so anyway that's why and all of the uh

2982

02:23:13,730 --> 02:23:10,800

I've only recorded over the years

2983

02:23:17,929 --> 02:23:13,740

um maybe a half a dozen shows

2984

02:23:20,870 --> 02:23:17,939

that's it out of uh out of uh 1500 shows

2985

02:23:23,990 --> 02:23:20,880

just just maybe half a dozen and three

2986

02:23:25,849 --> 02:23:24,000

or four of those were with Avi

2987

02:23:28,730 --> 02:23:25,859

and I tried to get him to go live and

2988

02:23:34,610 --> 02:23:28,740

there was a couple of moments uh there

2989

02:23:39,590 --> 02:23:37,910

so uh there you go now I was uh you know

2990

02:23:42,889 --> 02:23:39,600

listening to the show tonight and I

2991

02:23:46,010 --> 02:23:42,899

listened to all of it and and and I love

2992

02:23:48,410 --> 02:23:46,020

the way uh he he brings out the

2993

02:23:50,389 --> 02:23:48,420

information I really do I uh listening

2994

02:23:52,610 --> 02:23:50,399

to it a second time tonight and I'm

2995

02:23:56,030 --> 02:23:52,620

picking up on these things uh it's just

2996

02:23:59,750 --> 02:23:56,040

incredible but there is um I I talked

2997

02:24:02,809 --> 02:23:59,760

about this the other night the pacing

2998

02:24:04,610 --> 02:24:02,819

when you do a live show and I was uh it

2999

02:24:07,490 --> 02:24:04,620

was um Micah Hanks I was talking about

3000

02:24:08,809 --> 02:24:07,500

this with Micah a live show was

3001

02:24:13,250 --> 02:24:08,819

different

3002

02:24:16,550 --> 02:24:13,260

it's it's a thing and there's adrenaline

3003

02:24:18,170 --> 02:24:16,560

and stuff and when you record like this

3004

02:24:19,969 --> 02:24:18,180

was recorded even in the middle of the

3005

02:24:22,370 --> 02:24:19,979

day right I'm I'm wide awake

3006

02:24:25,250 --> 02:24:22,380

everything's fine I'm jacked up on

3007

02:24:27,710 --> 02:24:25,260

coffee and all of that but there is a

3008

02:24:29,450 --> 02:24:27,720

different thing that happens when it's

3009

02:24:33,170 --> 02:24:29,460

recorded and I'm listening to it right

3010

02:24:37,610 --> 02:24:33,180

now and it it the pacing the edginess of

3011

02:24:39,650 --> 02:24:37,620

it is is gone you know and and that's

3012

02:24:42,110 --> 02:24:39,660

something that I recognize and I'm

3013

02:24:44,630 --> 02:24:42,120

listening to them I'm like it it needs

3014

02:24:49,330 --> 02:24:44,640

to be faster you know it's it's it

3015

02:24:52,370 --> 02:24:49,340

sounds to it to my ears uh it's to NPR

3016

02:24:55,730 --> 02:24:52,380

it's just realized this is all things

3017

02:24:59,270 --> 02:24:55,740

considered with Jimmy church and our

3018

02:25:00,469 --> 02:24:59,280

guest today is Professor Avi Loeb from

3019

02:25:04,010 --> 02:25:00,479

Harvard

3020

02:25:07,969 --> 02:25:04,020

how are you today Avi you know it it it

3021

02:25:12,230 --> 02:25:07,979

it it it no matter what and and I

3022

02:25:14,870 --> 02:25:12,240

thought uh and I mentally uh was aware

3023

02:25:17,270 --> 02:25:14,880

of this today and I thought it was you

3024

02:25:19,550 --> 02:25:17,280

know I thought I was uppity no no

3025

02:25:23,290 --> 02:25:19,560

there's something else that happens with

3026

02:25:26,330 --> 02:25:23,300

live radio that is missing from podcast

3027

02:25:29,230 --> 02:25:26,340

and and I listen to podcasts but I know

3028

02:25:31,969 --> 02:25:29,240

that I'm listening to a podcast I'm not

3029

02:25:35,270 --> 02:25:31,979

uh there are

3030

02:25:37,990 --> 02:25:35,280

let me say this there are some big

3031

02:25:41,929 --> 02:25:38,000

podcasts out there that I listen to

3032

02:25:44,410 --> 02:25:41,939

and I can tell

3033

02:25:49,429 --> 02:25:44,420

it's edited

3034

02:25:52,670 --> 02:25:49,439

I can tell I can hear the edits

3035

02:25:55,969 --> 02:25:52,680

um I can hear the changes and things and

3036

02:25:59,630 --> 02:25:55,979

and and the tonality of it where it is

3037

02:26:01,969 --> 02:25:59,640

just this relaxed atmosphere

3038

02:26:04,130 --> 02:26:01,979

um now I'm okay with it because I know

3039

02:26:06,770 --> 02:26:04,140

that's what it is but as far as Fade to

3040

02:26:08,510 --> 02:26:06,780

Black Goes you know this uh this

3041

02:26:11,990 --> 02:26:08,520

conversation with Avi was great it was

3042

02:26:14,150 --> 02:26:12,000

awesome his his part of it is is cool my

3043

02:26:15,770 --> 02:26:14,160

side it's a little

3044

02:26:16,910 --> 02:26:15,780

it's a little

3045

02:26:20,630 --> 02:26:16,920

you know

3046

02:26:24,110 --> 02:26:20,640

the foot is off the accelerator it's uh

3047

02:26:25,730 --> 02:26:24,120

yeah yeah and I can hear it so but

3048

02:26:28,370 --> 02:26:25,740

anyway it was a it was a great

3049

02:26:31,490 --> 02:26:28,380

conversation I want to thank him

3050

02:26:33,349 --> 02:26:31,500

um for coming on and now this might have

3051

02:26:38,530 --> 02:26:33,359

gotten lost in the conversation oh by

3052

02:26:42,650 --> 02:26:39,950

747-228-2051-747-228-2051 there's no

3053

02:26:45,889 --> 02:26:42,660

fader night this week fader night is now

3054

02:26:48,190 --> 02:26:45,899

so if you've got something to say it is

3055

02:26:53,950 --> 02:26:48,200

now

3056

02:27:02,929 --> 02:26:59,330

Bobby and I had the the interview

3057

02:27:04,610 --> 02:27:02,939

scheduled and we traded uh uh emails

3058

02:27:06,469 --> 02:27:04,620

back and forth I delayed it five minutes

3059

02:27:08,690 --> 02:27:06,479

there was uh some food that was

3060

02:27:10,969 --> 02:27:08,700

delivered here to the studio and I

3061

02:27:13,910 --> 02:27:10,979

wanted to be able to uh to eat the food

3062

02:27:15,530 --> 02:27:13,920

and and uh and not let I told him I said

3063

02:27:18,469 --> 02:27:15,540

man I just got food delivery can I eat

3064

02:27:20,330 --> 02:27:18,479

really he said yeah sure and then

3065

02:27:23,030 --> 02:27:20,340

um so we delayed it like five minutes so

3066

02:27:25,389 --> 02:27:23,040

I could scarf uh scarf down this food

3067

02:27:29,030 --> 02:27:25,399

and and then

3068

02:27:30,410 --> 02:27:29,040

uh uh I start reaching out to him and he

3069

02:27:32,750 --> 02:27:30,420

doesn't pick up doesn't pick up doesn't

3070

02:27:35,090 --> 02:27:32,760

pick up doesn't pick up for 15 minutes

3071

02:27:37,969 --> 02:27:35,100

and he said Jimmy

3072

02:27:39,889 --> 02:27:37,979

I didn't expect this this just happened

3073

02:27:42,110 --> 02:27:39,899

Harvard

3074

02:27:44,090 --> 02:27:42,120

has opened up crowdfunding for the

3075

02:27:45,889 --> 02:27:44,100

Galileo project I was like what he said

3076

02:27:48,830 --> 02:27:45,899

yes so let's let's talk about this

3077

02:27:51,710 --> 02:27:48,840

tonight on the show and he uh sends me

3078

02:27:53,710 --> 02:27:51,720

the links and and I push you guys saw it

3079

02:27:56,510 --> 02:27:53,720

I pushed it out there into social media

3080

02:27:59,030 --> 02:27:56,520

so all of that got delayed I don't want

3081

02:28:02,750 --> 02:27:59,040

that to get lost on everybody that was a

3082

02:28:05,510 --> 02:28:02,760

very big deal and his excitement about

3083

02:28:09,170 --> 02:28:05,520

this uh before the show

3084

02:28:10,610 --> 02:28:09,180

um was was really cool so the the links

3085

02:28:12,830 --> 02:28:10,620

are out there if you want to get

3086

02:28:14,750 --> 02:28:12,840

involved in one of the coolest things

3087

02:28:18,590 --> 02:28:14,760

like ever

3088

02:28:20,510 --> 02:28:18,600

ever right now go click on the links go

3089

02:28:22,130 --> 02:28:20,520

over to the Galileo project over at

3090

02:28:25,849 --> 02:28:22,140

Harvard I've got the links up in social

3091

02:28:28,190 --> 02:28:25,859

media if uh if you've missed that then

3092

02:28:30,410 --> 02:28:28,200

you can go ahead and do a Google search

3093

02:28:31,849 --> 02:28:30,420

for Harvard and the Galileo project go

3094

02:28:34,849 --> 02:28:31,859

straight to the home page there at

3095

02:28:37,929 --> 02:28:34,859

Harvard and it says right there fund us

3096

02:28:42,530 --> 02:28:37,939

fund me fund us click on that and go

3097

02:28:45,070 --> 02:28:42,540

because as I stated earlier tonight in

3098

02:28:49,670 --> 02:28:45,080

my opening rant

3099

02:28:53,809 --> 02:28:49,680

the one thing that has been missing

3100

02:28:56,389 --> 02:28:53,819

in all of this look we've got the media

3101

02:28:58,250 --> 02:28:56,399

right we've got that we've got all the

3102

02:28:59,929 --> 02:28:58,260

podcasts we've got all the TV shows

3103

02:29:01,610 --> 02:28:59,939

we've got the Senate intelligence

3104

02:29:04,070 --> 02:29:01,620

committee we've got these whacked out

3105

02:29:06,170 --> 02:29:04,080

Navy videos we have we have Pilots

3106

02:29:08,389 --> 02:29:06,180

coming forward and crew members we've

3107

02:29:10,309 --> 02:29:08,399

got all of this we have the UAP task

3108

02:29:13,309 --> 02:29:10,319

force we have the UAP task force report

3109

02:29:15,349 --> 02:29:13,319

all of the the movies the TV's in the

3110

02:29:18,290 --> 02:29:15,359

documentary all of this is happening

3111

02:29:21,530 --> 02:29:18,300

right now and it's all great but there's

3112

02:29:27,309 --> 02:29:21,540

one thing that has been missing

3113

02:29:29,990 --> 02:29:27,319

all along and that is for somebody of

3114

02:29:33,050 --> 02:29:30,000

avilobe's caliber

3115

02:29:35,630 --> 02:29:33,060

right there to come in and go look I'm

3116

02:29:38,050 --> 02:29:35,640

putting this team together the brightest

3117

02:29:41,210 --> 02:29:38,060

Minds a scientist

3118

02:29:44,230 --> 02:29:41,220

undergraduates grad students I'm putting

3119

02:29:48,730 --> 02:29:44,240

together a team of 70

3120

02:29:52,910 --> 02:29:48,740

70 scientists that are going to

3121

02:29:55,309 --> 02:29:52,920

photograph video monitor everything that

3122

02:29:56,510 --> 02:29:55,319

is flying we're gonna take out the stuff

3123

02:29:58,070 --> 02:29:56,520

that doesn't matter we're going to take

3124

02:29:59,750 --> 02:29:58,080

out the blood so we're going to take out

3125

02:30:04,910 --> 02:29:59,760

that we're going to take out there but

3126
02:30:07,309 --> 02:30:04,920
we are going to identify uh uaps and we

3127
02:30:10,510 --> 02:30:07,319
are going to study them we are going to

3128
02:30:14,450 --> 02:30:10,520
capture them with automated high-res

3129
02:30:19,610 --> 02:30:14,460
telescopes we are going to get it done

3130
02:30:23,510 --> 02:30:19,620
and apply the scientific method to this

3131
02:30:25,130 --> 02:30:23,520
phenomena and that we are going to say

3132
02:30:28,250 --> 02:30:25,140
hello to ET we're going to figure this

3133
02:30:32,270 --> 02:30:28,260
out that has been the missing link

3134
02:30:34,969 --> 02:30:32,280
so now Harvard said yes this is active

3135
02:30:38,030 --> 02:30:34,979
this is now this is not a proposal this

3136
02:30:39,950 --> 02:30:38,040
is not an idea this is not uh some

3137
02:30:43,730 --> 02:30:39,960
people sitting around a table and

3138
02:30:46,070 --> 02:30:43,740

discussing things this is happening and

3139

02:30:49,550 --> 02:30:46,080

if you've ever wanted to be a part of

3140

02:30:52,670 --> 02:30:49,560

something great this is it right now go

3141

02:30:55,370 --> 02:30:52,680

go and and contribute whatever you can a

3142

02:30:58,969 --> 02:30:55,380

buck a dollar two dollars three dollars

3143

02:31:02,270 --> 02:30:58,979

a thousand whatever you got right

3144

02:31:03,730 --> 02:31:02,280

this is the time I am so excited about

3145

02:31:07,070 --> 02:31:03,740

this his

3146

02:31:08,630 --> 02:31:07,080

enthusiasm you know and I was watching

3147

02:31:11,630 --> 02:31:08,640

uh earlier

3148

02:31:17,150 --> 02:31:11,640

I was watching uh some of the comments

3149

02:31:21,230 --> 02:31:17,160

about uh Avi uh smiling and I'm here to

3150

02:31:24,050 --> 02:31:21,240

tell you and I by the way I am working

3151
02:31:27,290 --> 02:31:24,060
on one of the reasons why I can't share

3152
02:31:29,170 --> 02:31:27,300
screens and and do that is the

3153
02:31:35,210 --> 02:31:29,180
limitations of this studio

3154
02:31:38,750 --> 02:31:35,220
I don't uh run everything on a laptop or

3155
02:31:40,849 --> 02:31:38,760
on one computer that's why if I had that

3156
02:31:43,370 --> 02:31:40,859
I would just share screen I would have

3157
02:31:46,130 --> 02:31:43,380
it here and and send it straight to

3158
02:31:48,170 --> 02:31:46,140
Youtube or or whatever and and push it

3159
02:31:50,870 --> 02:31:48,180
out that's not the way the studio was

3160
02:31:53,150 --> 02:31:50,880
set up uh the studio was set up

3161
02:31:55,550 --> 02:31:53,160
differently video runs on another

3162
02:31:57,710 --> 02:31:55,560
computer over there so whatever I have

3163
02:32:00,889 --> 02:31:57,720

on this screen it no that's not what

3164

02:32:03,650 --> 02:32:00,899

happens I have a camera that is plugged

3165

02:32:06,650 --> 02:32:03,660

in to that computer what is going on

3166

02:32:09,349 --> 02:32:06,660

here the the guests are on another

3167

02:32:11,150 --> 02:32:09,359

computer over here my second guests or

3168

02:32:14,750 --> 02:32:11,160

call in lines or whatever are on another

3169

02:32:17,090 --> 02:32:14,760

computer here you can't merge the two

3170

02:32:21,290 --> 02:32:17,100

you it doesn't work that way you can't

3171

02:32:25,070 --> 02:32:21,300

output uh now there are uh there's a new

3172

02:32:27,830 --> 02:32:25,080

software technology called ndi all right

3173

02:32:31,849 --> 02:32:27,840

now I've got ndi running and that that

3174

02:32:35,030 --> 02:32:31,859

picks up a video stream on a on a on a

3175

02:32:37,190 --> 02:32:35,040

network specifically this I have six

3176

02:32:39,950 --> 02:32:37,200

computers that are plugged in here to

3177

02:32:43,550 --> 02:32:39,960

this ethernet hub and I have that

3178

02:32:46,010 --> 02:32:43,560

Network so I can send the ndi out as a

3179

02:32:51,290 --> 02:32:46,020

guest over here but

3180

02:32:53,929 --> 02:32:51,300

I Lose Myself And so it's either or and

3181

02:32:56,090 --> 02:32:53,939

I can't sit here and switch and look

3182

02:32:58,910 --> 02:32:56,100

over here at this computer and switch

3183

02:33:01,670 --> 02:32:58,920

between the two like other people do and

3184

02:33:03,790 --> 02:33:01,680

if it's uh if it's a recording that's

3185

02:33:07,550 --> 02:33:03,800

all easy enough to do but this is live

3186

02:33:11,150 --> 02:33:07,560

so I would need literally a producer or

3187

02:33:13,790 --> 02:33:11,160

a director sitting at that computer

3188

02:33:16,309 --> 02:33:13,800

and bouncing uh between the two or

3189

02:33:18,650 --> 02:33:16,319

merging them I don't have the ability to

3190

02:33:22,190 --> 02:33:18,660

do that live so that's why that hasn't

3191

02:33:23,570 --> 02:33:22,200

happened now back to uh what I was

3192

02:33:26,410 --> 02:33:23,580

saying

3193

02:33:30,590 --> 02:33:26,420

um uh the the

3194

02:33:33,830 --> 02:33:30,600

uh the project is as important as

3195

02:33:37,490 --> 02:33:33,840

anything that has ever happened before

3196

02:33:40,550 --> 02:33:37,500

and and I believe I know what goes on in

3197

02:33:43,250 --> 02:33:40,560

the skies I I know this I've seen it I

3198

02:33:46,610 --> 02:33:43,260

know what goes on every single night

3199

02:33:48,290 --> 02:33:46,620

every single day of the year something

3200

02:33:52,429 --> 02:33:48,300

crazy is going on

3201

02:33:56,570 --> 02:33:52,439

so absorb what Avi said

3202

02:33:57,710 --> 02:33:56,580

he is talking about points around the

3203

02:34:00,889 --> 02:33:57,720

world

3204

02:34:02,510 --> 02:34:00,899

from these stations some are

3205

02:34:06,170 --> 02:34:02,520

observatories

3206

02:34:08,870 --> 02:34:06,180

schools where you are going to have a

3207

02:34:14,630 --> 02:34:08,880

couple of different telescopes one

3208

02:34:17,570 --> 02:34:14,640

is going to be looking at the entire sky

3209

02:34:21,349 --> 02:34:17,580

at that point everything that is visible

3210

02:34:25,190 --> 02:34:21,359

with a fisheye lens the entire sky

3211

02:34:28,849 --> 02:34:25,200

and anything that moves right automated

3212

02:34:31,309 --> 02:34:28,859

zoom in check it out and it's going to

3213

02:34:33,950 --> 02:34:31,319

be quick it's going to be fast but if

3214

02:34:37,610 --> 02:34:33,960

you are doing that and you're looking at

3215

02:34:39,230 --> 02:34:37,620

everything everything quickly quickly

3216

02:34:41,270 --> 02:34:39,240

you can do this fast you can see

3217

02:34:44,510 --> 02:34:41,280

everything that's in the sky you are

3218

02:34:46,309 --> 02:34:44,520

going to find uaps you're going to find

3219

02:34:48,170 --> 02:34:46,319

UFOs you're going to find anomalies

3220

02:34:50,750 --> 02:34:48,180

you're going to find phenomenon and

3221

02:34:54,050 --> 02:34:50,760

you're going to find a lot of it fisheye

3222

02:34:56,990 --> 02:34:54,060

and then zoom in this is great and it's

3223

02:34:59,210 --> 02:34:57,000

never been done before you would think

3224

02:35:02,690 --> 02:34:59,220

right you would think that it's been

3225

02:35:04,190 --> 02:35:02,700

done it hasn't it has not been done it's

3226

02:35:06,550 --> 02:35:04,200

one of the most exciting things that's

3227

02:35:09,650 --> 02:35:06,560

why I told live you are going to have

3228

02:35:11,510 --> 02:35:09,660

more work than you can handle you're

3229

02:35:14,929 --> 02:35:11,520

going to have a lot of fun that's 70

3230

02:35:18,230 --> 02:35:14,939

people yeah it's not enough if you're

3231

02:35:19,670 --> 02:35:18,240

going to open up this Floodgate so think

3232

02:35:21,889 --> 02:35:19,680

about this

3233

02:35:23,150 --> 02:35:21,899

all right just think about it think

3234

02:35:25,670 --> 02:35:23,160

about it

3235

02:35:28,309 --> 02:35:25,680

it's incredible it's incredible this is

3236

02:35:30,950 --> 02:35:28,319

the guy we need on our team

3237

02:35:32,870 --> 02:35:30,960

um oh so what I was saying I'm watching

3238

02:35:35,389 --> 02:35:32,880

Avi smile

3239

02:35:38,870 --> 02:35:35,399

I'm watching him talk I'm watching his

3240

02:35:43,910 --> 02:35:38,880

enthusiasm uh and his happiness about

3241

02:35:47,090 --> 02:35:43,920

this Avi is smiling he is in a a good

3242

02:35:51,110 --> 02:35:47,100

headspace right now he is excited about

3243

02:35:54,469 --> 02:35:51,120

this and to have a professor of

3244

02:35:56,870 --> 02:35:54,479

astronomy that heads to chairs at

3245

02:35:59,150 --> 02:35:56,880

Harvard saying hey

3246

02:36:01,910 --> 02:35:59,160

I'm gonna find out what's going on with

3247

02:36:05,150 --> 02:36:01,920

E.T I'm gonna find the evidence I'm

3248

02:36:07,010 --> 02:36:05,160

gonna do astral archeology and I am

3249

02:36:09,950 --> 02:36:07,020

going to get to the bottom of this and

3250

02:36:11,030 --> 02:36:09,960

that is what is happening it is not an

3251

02:36:14,929 --> 02:36:11,040

idea

3252

02:36:17,150 --> 02:36:14,939

this is a project that is underway so I

3253

02:36:20,210 --> 02:36:17,160

put up the links if you ever wanted to

3254

02:36:22,670 --> 02:36:20,220

get involved with something uh as as

3255

02:36:26,570 --> 02:36:22,680

cool as this I mean like the the for

3256

02:36:29,630 --> 02:36:26,580

Real Deal stuff the shiz nickel this is

3257

02:36:31,910 --> 02:36:29,640

the project this is the one all right uh

3258

02:36:34,849 --> 02:36:31,920

I've got calls on hold let's see who is

3259

02:36:38,389 --> 02:36:34,859

up who is first

3260

02:36:41,330 --> 02:36:38,399

let's go here did I do that right I did

3261

02:36:43,190 --> 02:36:41,340

do that right all right all right you're

3262

02:36:47,570 --> 02:36:43,200

live on Fade to Black oh hold on a

3263

02:36:50,090 --> 02:36:47,580

second man I got to come back here I've

3264

02:36:53,090 --> 02:36:50,100

got to oh no I'm right okay hi you're

3265

02:36:55,550 --> 02:36:53,100

live on Fade to black who's calling hi

3266

02:36:57,110 --> 02:36:55,560

Jimmy you're right I gotcha it's Deb hi

3267

02:37:00,410 --> 02:36:57,120

Deb

3268

02:37:02,090 --> 02:37:00,420

hi yes I'm glad you have his links

3269

02:37:04,370 --> 02:37:02,100

posted I definitely want to uh

3270

02:37:06,070 --> 02:37:04,380

contribute you know Avi is one of those

3271

02:37:09,190 --> 02:37:06,080

people that just

3272

02:37:12,950 --> 02:37:09,200

he you're right he he's just so likable

3273

02:37:16,490 --> 02:37:12,960

and he's always so energetic and full of

3274

02:37:17,570 --> 02:37:16,500

enthusiasm and he's engaging and I just

3275

02:37:19,010 --> 02:37:17,580

listened to him the other day on

3276

02:37:21,170 --> 02:37:19,020

Christina's show and then I couldn't

3277

02:37:22,610 --> 02:37:21,180

still couldn't wait to hear him tonight

3278

02:37:24,530 --> 02:37:22,620

um I get a little bit distracted over

3279

02:37:25,910 --> 02:37:24,540

here in the YouTube chat room so I know

3280

02:37:29,330 --> 02:37:25,920

I'm going to go back and re-listen to

3281

02:37:32,210 --> 02:37:29,340

everything but you know his excitement

3282

02:37:34,250 --> 02:37:32,220

it just makes me you know more

3283

02:37:36,670 --> 02:37:34,260

um I don't want to say anxious but just

3284

02:37:39,170 --> 02:37:36,680

excited for the whole thing and um

3285

02:37:41,929 --> 02:37:39,180

archaeoastronomy is a fascinating area

3286

02:37:43,370 --> 02:37:41,939

as well what's always interested me

3287

02:37:45,469 --> 02:37:43,380

yep

3288

02:37:47,150 --> 02:37:45,479

and that's my answer to that okay

3289

02:37:51,469 --> 02:37:47,160

anything else

3290

02:37:55,910 --> 02:37:51,479

I mean look this is this is the deal

3291

02:37:59,150 --> 02:37:55,920

um and and and again I tried to

3292

02:38:01,550 --> 02:37:59,160

I tried to drive a couple of points home

3293

02:38:04,670 --> 02:38:01,560

uh for the audience so they can

3294

02:38:08,750 --> 02:38:04,680

understand exactly what is being played

3295

02:38:11,030 --> 02:38:08,760

out here and one of the points that I

3296

02:38:15,950 --> 02:38:11,040

made tonight and I'm going to make it

3297

02:38:18,410 --> 02:38:15,960

again that I'm wondering how many out

3298

02:38:21,610 --> 02:38:18,420

there in the scientific community and

3299

02:38:24,889 --> 02:38:21,620

you know in in astronomy in physics and

3300

02:38:27,710 --> 02:38:24,899

astrophysics how many of them are

3301

02:38:29,929 --> 02:38:27,720

interested in this but they don't want

3302

02:38:31,730 --> 02:38:29,939

to be the dude they don't want to be the

3303

02:38:33,650 --> 02:38:31,740

dudette they don't want to be first they

3304

02:38:35,090 --> 02:38:33,660

don't want to face ridicule they don't

3305

02:38:36,950 --> 02:38:35,100

want to be teased they don't want to be

3306

02:38:39,410 --> 02:38:36,960

the UFO guy they don't want to have

3307

02:38:41,270 --> 02:38:39,420

people talking hey that take me to your

3308

02:38:43,250 --> 02:38:41,280

leader that's him that's him that's

3309

02:38:45,469 --> 02:38:43,260

that's her over there you don't want to

3310

02:38:48,349 --> 02:38:45,479

be that person and I understand that

3311

02:38:51,110 --> 02:38:48,359

fear you just don't want to be that

3312

02:38:55,490 --> 02:38:51,120

somebody had to be first and you know

3313

02:38:58,190 --> 02:38:55,500

what it was Avi Loeb so now Avi says Hey

3314

02:39:01,270 --> 02:38:58,200

right he gets the support of Harvard he

3315

02:39:04,429 --> 02:39:01,280

writes it up uh he releases the book

3316

02:39:06,710 --> 02:39:04,439

extraterrestrial he gets uh Yuri Milner

3317

02:39:09,429 --> 02:39:06,720

to come on board he gets Stephen Hawking

3318

02:39:13,010 --> 02:39:09,439

uh in the play now all of a sudden

3319

02:39:17,270 --> 02:39:13,020

everybody wants to be avi's friend right

3320

02:39:20,270 --> 02:39:17,280

now he's got 70. he's got 70 people he's

3321

02:39:23,030 --> 02:39:20,280

got 70 researchers 70 scientists on

3322

02:39:25,969 --> 02:39:23,040

board on this project already and that's

3323

02:39:28,610 --> 02:39:25,979

just now he just had this press

3324

02:39:31,130 --> 02:39:28,620

conference two weeks ago so how many

3325

02:39:34,250 --> 02:39:31,140

more are now like okay you know what I

3326

02:39:36,469 --> 02:39:34,260

think it's safe right I think that's

3327

02:39:38,210 --> 02:39:36,479

right well and that's right the RV

3328

02:39:40,790 --> 02:39:38,220

training this is what happens Jimmy this

3329

02:39:43,670 --> 02:39:40,800

is what happens when one person puts

3330

02:39:46,309 --> 02:39:43,680

self-preservation aside and takes that

3331

02:39:48,650 --> 02:39:46,319

leap and and we're witnessing it and

3332

02:39:50,870 --> 02:39:48,660

what a courageous awesome person he is

3333

02:39:53,929 --> 02:39:50,880

and like I said that's what attracts me

3334

02:39:56,389 --> 02:39:53,939

to him he is just he is just a superstar

3335

02:39:59,090 --> 02:39:56,399

as far as I'm concerned he gets it as of

3336

02:40:01,730 --> 02:39:59,100

love I love it yes he does he's bringing

3337

02:40:03,530 --> 02:40:01,740

us all along into it you know he helps

3338

02:40:06,950 --> 02:40:03,540

us understand it too and it's so cool

3339

02:40:09,410 --> 02:40:06,960

well when I brought up I I kept uh

3340

02:40:12,590 --> 02:40:09,420

bringing up a few points that I've

3341

02:40:15,170 --> 02:40:12,600

talked about on this show enough but I

3342

02:40:17,290 --> 02:40:15,180

had to swing it back around to Avi so

3343

02:40:20,150 --> 02:40:17,300

everybody could understand

3344

02:40:22,849 --> 02:40:20,160

the implications and how serious these

3345

02:40:24,070 --> 02:40:22,859

subjects are when he makes a statement

3346

02:40:26,710 --> 02:40:24,080

like

3347

02:40:30,309 --> 02:40:26,720

omuumua and if you remember

3348

02:40:34,750 --> 02:40:30,319

omuumua uh with uh the artist uh

3349

02:40:38,510 --> 02:40:34,760

representations there are no uh images

3350

02:40:43,130 --> 02:40:38,520

right right it was this well Avi says

3351

02:40:47,929 --> 02:40:43,140

hey wait hold on a minute hold on it's

3352

02:40:52,190 --> 02:40:47,939

not a cigar right no it's it's a it's a

3353

02:40:55,250 --> 02:40:52,200

pancake and you're like yes what and I'm

3354

02:40:58,910 --> 02:40:55,260

telling you so in the book in the book I

3355

02:41:00,650 --> 02:40:58,920

think he says pancake once that word is

3356

02:41:02,990 --> 02:41:00,660

only in there once so if you're just

3357

02:41:06,309 --> 02:41:03,000

flipping pages and pounding which is

3358

02:41:11,570 --> 02:41:06,319

fine you may have missed it and he

3359

02:41:13,849 --> 02:41:11,580

explains his reasons and what data uh

3360

02:41:16,969 --> 02:41:13,859

took him in that direction but it's only

3361

02:41:19,210 --> 02:41:16,979

there just in a brief moment in the book

3362

02:41:22,130 --> 02:41:19,220

and it's one of the most profound

3363

02:41:25,790 --> 02:41:22,140

statements he made in the entire book

3364

02:41:28,910 --> 02:41:25,800

that that one and I had to come back and

3365

02:41:31,250 --> 02:41:28,920

go to Avi look you know that's a nugget

3366

02:41:32,929 --> 02:41:31,260

that most people nobody talked about it

3367

02:41:36,469 --> 02:41:32,939

it wasn't in the Press they talked about

3368

02:41:38,690 --> 02:41:36,479

X extraterrestrial and and omu mua may

3369

02:41:41,290 --> 02:41:38,700

be artificial and and yes he went out

3370

02:41:44,510 --> 02:41:41,300

and spoke about it but nobody brought up

3371

02:41:46,210 --> 02:41:44,520

the pancake reference what the heck are

3372

02:41:50,090 --> 02:41:46,220

you talking about

3373

02:41:52,809 --> 02:41:50,100

a pancake only looks like one thing a

3374

02:41:58,670 --> 02:41:52,819

pancake so either

3375

02:42:01,929 --> 02:41:58,680

was this or it was a flying saucer right

3376

02:42:06,429 --> 02:42:01,939

and and and his explanations for that

3377

02:42:09,530 --> 02:42:06,439

which are uh not only extraordinary but

3378

02:42:13,429 --> 02:42:09,540

simplistic look man it's flipping over

3379

02:42:16,370 --> 02:42:13,439

the light is changing by 90 and you're

3380

02:42:20,210 --> 02:42:16,380

not gonna get that from this you're

3381

02:42:25,490 --> 02:42:20,220

going to only get that from this and and

3382

02:42:29,150 --> 02:42:25,500

that it's a crazy and for Avi to

3383

02:42:30,590 --> 02:42:29,160

um not only stand strong but the

3384

02:42:32,450 --> 02:42:30,600

statements are simple

3385

02:42:35,750 --> 02:42:32,460

the data

3386

02:42:38,330 --> 02:42:35,760

I'm not this is not my imagination

3387

02:42:42,230 --> 02:42:38,340

it's the data this is what the data is

3388

02:42:45,110 --> 02:42:42,240

saying that is who is in our Corner

3389

02:42:46,849 --> 02:42:45,120

that's the guy that is swinging for the

3390

02:42:48,889 --> 02:42:46,859

fences right now

3391

02:42:50,750 --> 02:42:48,899

right and the Really courageous thing

3392

02:42:53,630 --> 02:42:50,760

that he did recently one of the last

3393

02:42:55,790 --> 02:42:53,640

podcasts I heard him on was

3394

02:42:58,010 --> 02:42:55,800

um he challenged he said you know we can

3395

02:43:00,830 --> 02:42:58,020

I find it amazing that we can photograph

3396

02:43:03,469 --> 02:43:00,840

the rings of Saturn yet when this object

3397

02:43:05,330 --> 02:43:03,479

floated through our universe you know on

3398

02:43:07,130 --> 02:43:05,340

autopilot or whatever we just couldn't

3399

02:43:09,050 --> 02:43:07,140

manage to get a decent picture of it

3400

02:43:10,730 --> 02:43:09,060

even at how close it was we just don't

3401

02:43:12,710 --> 02:43:10,740

have the technology to get a decent

3402

02:43:14,450 --> 02:43:12,720

picture of that but yeah we can go all

3403

02:43:15,710 --> 02:43:14,460

the way out and get the rings of Saturn

3404

02:43:18,469 --> 02:43:15,720

and he brought that up and it's just

3405

02:43:21,530 --> 02:43:18,479

like he challenged them that's what we

3406

02:43:25,309 --> 02:43:21,540

love about him yeah yeah yeah except

3407

02:43:27,769 --> 02:43:25,319

um and and he's right but he's not

3408

02:43:31,790 --> 02:43:27,779

um I I think you missed something there

3409

02:43:34,969 --> 02:43:31,800

in in his answer but it's it's this the

3410

02:43:38,330 --> 02:43:34,979

freaking thing is going 250

3411

02:43:43,250 --> 02:43:38,340

000 miles an hour it's not you know and

3412

02:43:46,490 --> 02:43:43,260

when uh when an object uh you know an

3413

02:43:48,710 --> 02:43:46,500

asteroid and it's traveling at 17 000

3414

02:43:51,170 --> 02:43:48,720

miles an hour that's ripping fast right

3415

02:43:55,969 --> 02:43:51,180

it's traveling at thirty thousand that's

3416

02:44:00,290 --> 02:43:55,979

really fast uh omu omua came in popped

3417

02:44:02,389 --> 02:44:00,300

up so quickly that everybody was uh uh

3418

02:44:05,809 --> 02:44:02,399

you know on the phones a date is going

3419

02:44:07,910 --> 02:44:05,819

off uh you know signals are are being

3420

02:44:10,070 --> 02:44:07,920

tripped and and this object gets picked

3421

02:44:14,330 --> 02:44:10,080

up by the time every but I'm talking

3422

02:44:18,050 --> 02:44:14,340

about an hour 350

3423

02:44:20,870 --> 02:44:18,060

000 miles an hour in an hour it's it's

3424

02:44:24,050 --> 02:44:20,880

already gone past the the distance from

3425

02:44:27,170 --> 02:44:24,060

the Earth to the Moon in an hour an hour

3426

02:44:30,170 --> 02:44:27,180

after that and an hour after the next

3427

02:44:33,290 --> 02:44:30,180

thing you know a day later it's it's

3428

02:44:36,290 --> 02:44:33,300

it's it's cruising by Mars you know and

3429

02:44:39,650 --> 02:44:36,300

and the day after that it it's on its

3430

02:44:41,750 --> 02:44:39,660

way out to Saturn and Jupiter and and

3431

02:44:45,410 --> 02:44:41,760

out of our solar system so there wasn't

3432

02:44:47,870 --> 02:44:45,420

time to react there wasn't Time to whip

3433

02:44:50,570 --> 02:44:47,880

satellites around and tell it was gone

3434

02:44:52,610 --> 02:44:50,580

it was gone and it wasn't that big of an

3435

02:44:55,690 --> 02:44:52,620

object way to party with other planets

3436

02:44:58,910 --> 02:44:55,700

it's going to go party on other planets

3437

02:45:02,090 --> 02:44:58,920

it left forwarded with people it left

3438

02:45:05,210 --> 02:45:02,100

like it it was never here it was really

3439

02:45:07,429 --> 02:45:05,220

that fast so there wasn't any time to

3440

02:45:10,610 --> 02:45:07,439

react and a lot of this data that comes

3441

02:45:13,550 --> 02:45:10,620

in that's a good point yeah you get this

3442

02:45:15,889 --> 02:45:13,560

data the next day right and you're

3443

02:45:18,290 --> 02:45:15,899

looking over it you're not you're not

3444

02:45:20,510 --> 02:45:18,300

looking at pictures you're not that's

3445

02:45:22,849 --> 02:45:20,520

not it it's data so you're looking at it

3446

02:45:24,950 --> 02:45:22,859

oh uh and you're you know and you're

3447

02:45:27,050 --> 02:45:24,960

looking at you know the lines of

3448

02:45:29,570 --> 02:45:27,060

information and the logging and you're

3449

02:45:32,809 --> 02:45:29,580

like okay what happened how fast what

3450

02:45:35,450 --> 02:45:32,819

what what's going on and and and that's

3451

02:45:38,210 --> 02:45:35,460

now two days have gone by and it's it's

3452

02:45:40,610 --> 02:45:38,220

now you know every 10 hours it's going

3453

02:45:43,849 --> 02:45:40,620

three and a half million miles

3454

02:45:47,330 --> 02:45:43,859

you have to think about is think about

3455

02:45:51,410 --> 02:45:47,340

it in those terms so the opportunity and

3456

02:45:55,070 --> 02:45:51,420

I wasn't so yeah the opportunity to uh

3457

02:45:58,969 --> 02:45:55,080

to catch all of this uh it was gone and

3458

02:46:00,950 --> 02:45:58,979

he talks about it in the book we uh the

3459

02:46:04,070 --> 02:46:00,960

opportunity was completely missed the

3460

02:46:06,830 --> 02:46:04,080

opportunity on Imaging uh the

3461

02:46:09,290 --> 02:46:06,840

opportunity on data collection because

3462

02:46:11,870 --> 02:46:09,300

all of the you know Hubble right Hubble

3463

02:46:16,670 --> 02:46:11,880

could have been anything could have been

3464

02:46:19,670 --> 02:46:16,680

pointed by the time uh uh we knew it was

3465

02:46:21,349 --> 02:46:19,680

gone so we had to go back and and most

3466

02:46:23,750 --> 02:46:21,359

of the information that was there is

3467

02:46:26,570 --> 02:46:23,760

data collection it's not it's not from

3468

02:46:29,650 --> 02:46:26,580

Imaging so and that's it that's it we

3469

02:46:33,050 --> 02:46:29,660

don't have an uh a good image of of

3470

02:46:34,190 --> 02:46:33,060

omuamua okay so uh before I get to the

3471

02:46:36,710 --> 02:46:34,200

other calls

3472

02:46:38,450 --> 02:46:36,720

yeah real quick real quick well did you

3473

02:46:40,130 --> 02:46:38,460

want to say something else before I do

3474

02:46:41,690 --> 02:46:40,140

two quick things I can keep talking for

3475

02:46:43,550 --> 02:46:41,700

the next three hours I haven't said

3476

02:46:46,490 --> 02:46:43,560

anything tonight so I'm gonna cut you

3477

02:46:48,170 --> 02:46:46,500

off I gotta pivot you over okay where do

3478

02:46:50,030 --> 02:46:48,180

I go now I'm taking your

3479

02:46:52,070 --> 02:46:50,040

thanks for taking your are you still

3480

02:46:53,510 --> 02:46:52,080

talking oh I'm sorry I'm watching the I

3481

02:46:56,090 --> 02:46:53,520

gotta quit looking at the screen that

3482

02:46:57,650 --> 02:46:56,100

there's a time delay damn okay thank you

3483

02:47:00,110 --> 02:46:57,660

for taking your green glittery guitar

3484

02:47:01,790 --> 02:47:00,120

off the wall and put it in the camera I

3485

02:47:05,750 --> 02:47:01,800

love that guitar it's the prettiest one

3486

02:47:07,429 --> 02:47:05,760

up there and playing it with uh of you

3487

02:47:09,349 --> 02:47:07,439

talking and us not hearing you that

3488

02:47:11,809 --> 02:47:09,359

doesn't count Jimmy nope it doesn't so

3489

02:47:15,250 --> 02:47:11,819

here are my turns no there are no terms

3490

02:47:19,309 --> 02:47:15,260

the mystery will continue

3491

02:47:21,230 --> 02:47:19,319

okay mystery will continue

3492

02:47:22,670 --> 02:47:21,240

stop are you going to play it at the

3493

02:47:24,650 --> 02:47:22,680

conference because the other day you

3494

02:47:26,870 --> 02:47:24,660

said you were on the campus and you were

3495

02:47:28,910 --> 02:47:26,880

shredding Tasty Licks but none of us

3496

02:47:30,349 --> 02:47:28,920

were there to see it haha well we're

3497

02:47:32,150 --> 02:47:30,359

going to be at the conference some of us

3498

02:47:35,090 --> 02:47:32,160

are you going to play your guitar and

3499

02:47:38,330 --> 02:47:35,100

entertain us uh hold on for a second uh

3500

02:47:42,050 --> 02:47:38,340

no the answer is no but uh of course not

3501

02:47:43,969 --> 02:47:42,060

let me see if I can find hold on for a

3502

02:47:47,809 --> 02:47:43,979

second let me see here hold on

3503

02:47:53,269 --> 02:47:49,550

uh see

3504

02:47:55,849 --> 02:47:53,279

uh uh oh I don't have anything on this

3505

02:48:00,170 --> 02:47:55,859

computer I thought I did I thought I had

3506

02:48:03,110 --> 02:48:00,180

some uh some fancy Jimmy licks uh on

3507

02:48:04,990 --> 02:48:03,120

this on this oh see I've got calls

3508

02:48:07,849 --> 02:48:05,000

hanging up let me see if I've got Miss

3509

02:48:11,269 --> 02:48:07,859

do I have any here

3510

02:48:13,670 --> 02:48:11,279

I may not have

3511

02:48:17,389 --> 02:48:13,680

oh I was gonna do a full teaser here

3512

02:48:18,950 --> 02:48:17,399

hold on for a second let's see what you

3513

02:48:20,389 --> 02:48:18,960

love the cheese though don't you it's

3514

02:48:24,550 --> 02:48:20,399

such a specialty

3515

02:48:26,630 --> 02:48:24,560

okay well if I have something over here

3516

02:48:27,349 --> 02:48:26,640

let me see

3517

02:48:31,730 --> 02:48:27,359

um

3518

02:48:45,110 --> 02:48:38,570

let's see hang on wow I don't have uh

3519

02:48:45,120 --> 02:48:51,110

I thought I had

3520

02:48:58,190 --> 02:48:52,790

wow okay

3521

02:48:59,330 --> 02:48:58,200

um I've got uh I've got stuff bear 90 96

3522

02:49:06,769 --> 02:48:59,340

oh

3523

02:49:13,849 --> 02:49:12,050

yeah I can't find I can't find my uh

3524

02:49:17,150 --> 02:49:13,859

huh

3525

02:49:20,809 --> 02:49:17,160

okay I I've got I can't find it I I was

3526

02:49:24,469 --> 02:49:20,819

looking for some some songs and for some

3527

02:49:25,849 --> 02:49:24,479

reason they're not popping up on on this

3528

02:49:29,590 --> 02:49:25,859

computer

3529

02:49:32,870 --> 02:49:29,600

and and let me try this

3530

02:49:35,769 --> 02:49:32,880

hopefully they didn't get deleted oh no

3531

02:49:38,510 --> 02:49:35,779

no I've got uh

3532

02:49:39,889 --> 02:49:38,520

the other day the other day you flashed

3533

02:49:41,269 --> 02:49:39,899

the inside of that board I think if

3534

02:49:42,830 --> 02:49:41,279

you're on Christina's show and you put

3535

02:49:45,410 --> 02:49:42,840

the camera and showed all that stuff

3536

02:49:47,690 --> 02:49:45,420

there man that's a complicated setup

3537

02:49:49,490 --> 02:49:47,700

you've got there's like holy crap

3538

02:49:51,410 --> 02:49:49,500

you've got a lot going on there people

3539

02:49:52,960 --> 02:49:51,420

have no idea

3540

02:49:54,290 --> 02:49:52,970

something

3541

02:49:56,510 --> 02:49:54,300

[Music]

3542

02:50:00,170 --> 02:49:56,520

it's awesome people knew I did how many

3543

02:50:02,690 --> 02:50:00,180

talk about multitasking Jesus anyway

3544

02:50:04,730 --> 02:50:02,700

okay well let me let me get to these

3545

02:50:06,290 --> 02:50:04,740

other calls uh I was gonna play with

3546

02:50:09,650 --> 02:50:06,300

some music

3547

02:50:11,269 --> 02:50:09,660

next Thursday Kubrick movie trivia night

3548

02:50:13,070 --> 02:50:11,279

I am ready and I know that's why you're

3549

02:50:14,349 --> 02:50:13,080

ditching out tomorrow because you're not

3550

02:50:16,730 --> 02:50:14,359

ready

3551
02:50:18,710 --> 02:50:16,740
and so you're you can run but you can't

3552
02:50:20,510 --> 02:50:18,720
hide Jimmy and I got one warm-up

3553
02:50:23,630 --> 02:50:20,520
question for you real quick okay let's

3554
02:50:26,330 --> 02:50:23,640
see if you know this okay okay and eyes

3555
02:50:28,429 --> 02:50:26,340
wide shut that was the longest

3556
02:50:30,050 --> 02:50:28,439
production film it made the Guinness

3557
02:50:32,090 --> 02:50:30,060
Book of World History for the longest

3558
02:50:34,490 --> 02:50:32,100
hours filming or the longest days

3559
02:50:37,370 --> 02:50:34,500
filming how many days did they film

3560
02:50:38,990 --> 02:50:37,380
how many days do they I'll give you that

3561
02:50:43,809 --> 02:50:39,000
answer next I'll give you that answer

3562
02:50:46,790 --> 02:50:43,819
next Thursday have a great night Deb

3563
02:50:48,530 --> 02:50:46,800

hey I'll see at the conference I know

3564

02:50:50,929 --> 02:50:48,540

you'll be stealth but we'll see you

3565

02:50:54,050 --> 02:50:50,939

eventually have a great night thank you

3566

02:50:58,610 --> 02:50:54,060

so much you too bye

3567

02:51:00,950 --> 02:50:58,620

all right uh you know I'm not going to

3568

02:51:03,769 --> 02:51:00,960

Deb great phone call I'm not going to

3569

02:51:06,590 --> 02:51:03,779

get buried into trivia when I've got uh

3570

02:51:09,050 --> 02:51:06,600

uh people on hold I'm just I'm not gonna

3571

02:51:10,550 --> 02:51:09,060

do it I'm not gonna do it let's see

3572

02:51:12,710 --> 02:51:10,560

who's up next hi you're live on Fade to

3573

02:51:16,330 --> 02:51:12,720

Black who's calling

3574

02:51:18,410 --> 02:51:16,340

hey Jimmy it's Carrie in Palm Springs

3575

02:51:22,190 --> 02:51:18,420

yeah I knew you were calling tonight

3576
02:51:24,469 --> 02:51:22,200
after that after my comment uh earlier I

3577
02:51:27,590 --> 02:51:24,479
had the feeling how you doing Carrie

3578
02:51:29,929 --> 02:51:27,600
I'm good how are you doing I'm doing

3579
02:51:33,170 --> 02:51:29,939
fantastic you know I got to take sort of

3580
02:51:35,389 --> 02:51:33,180
a night off right yeah you know uh

3581
02:51:38,990 --> 02:51:35,399
interviewed uh Avi earlier in the day

3582
02:51:41,389 --> 02:51:39,000
and then hung out on uh Twitter and uh

3583
02:51:44,150 --> 02:51:41,399
YouTube and a little bit over in the

3584
02:51:46,610 --> 02:51:44,160
speaker chat too as well so uh yeah it

3585
02:51:48,290 --> 02:51:46,620
was it was a great uh it was a great fun

3586
02:51:50,210 --> 02:51:48,300
night

3587
02:51:54,790 --> 02:51:50,220
um I've got to be up I've got to be up

3588
02:51:58,429 --> 02:51:54,800

at 7 00 a.m I've got a hugely long day

3589

02:52:01,370 --> 02:51:58,439

in front of me so there you go what's on

3590

02:52:04,190 --> 02:52:01,380

your mind Carrie too well thank you for

3591

02:52:06,050 --> 02:52:04,200

such an amazing interview with avilo and

3592

02:52:08,570 --> 02:52:06,060

you always get him on the show thank you

3593

02:52:12,710 --> 02:52:08,580

so much he is one of my favorite guests

3594

02:52:15,590 --> 02:52:12,720

I'm so excited about his Galileo project

3595

02:52:18,650 --> 02:52:15,600

I really think he's actually going to

3596

02:52:22,929 --> 02:52:18,660

find something and I just am so proud of

3597

02:52:26,150 --> 02:52:22,939

how courageous he's going to be and is

3598

02:52:29,090 --> 02:52:26,160

by creating this project and I would

3599

02:52:30,530 --> 02:52:29,100

like some syrup with my pancakes because

3600

02:52:31,730 --> 02:52:30,540

I think we're going to find more

3601
02:52:35,570 --> 02:52:31,740
pancakes

3602
02:52:39,130 --> 02:52:35,580
he's I I I told him I told him uh both

3603
02:52:41,990 --> 02:52:39,140
on and off the air dude

3604
02:52:44,269 --> 02:52:42,000
you better be ready because you are

3605
02:52:46,010 --> 02:52:44,279
going to have a lot of stuff you're

3606
02:52:47,809 --> 02:52:46,020
going to have a lot of work it's going

3607
02:52:50,150 --> 02:52:47,819
to be great but you're also going to

3608
02:52:51,530 --> 02:52:50,160
find out what so many in the UFO

3609
02:52:55,910 --> 02:52:51,540
Community have been talking about

3610
02:52:58,429 --> 02:52:55,920
sightings go on all day all night every

3611
02:53:00,590 --> 02:52:58,439
day of the year and you're gonna have

3612
02:53:04,790 --> 02:53:00,600
automated systems out there scanning the

3613
02:53:09,130 --> 02:53:04,800

skies in real time all of the sky all of

3614

02:53:15,590 --> 02:53:12,110

they're gonna lose their minds that they

3615

02:53:18,170 --> 02:53:15,600

they don't have any idea and hopefully

3616

02:53:20,889 --> 02:53:18,180

he'll uh get to see the beer can and and

3617

02:53:24,170 --> 02:53:20,899

I'll be Vindicated so there you go

3618

02:53:26,809 --> 02:53:24,180

it was a can of syrup I think well you

3619

02:53:30,950 --> 02:53:26,819

know interesting enough regarding the

3620

02:53:34,550 --> 02:53:30,960

pancake shape yes it makes sense because

3621

02:53:37,790 --> 02:53:34,560

it would have more surface area than a

3622

02:53:41,330 --> 02:53:37,800

cigar shape to reflect the Sun and act

3623

02:53:43,190 --> 02:53:41,340

as some sort of a solar panel that could

3624

02:53:47,570 --> 02:53:43,200

fuel The Craft

3625

02:53:49,969 --> 02:53:47,580

so I believe that the data the

3626
02:53:53,210 --> 02:53:49,979
conclusion that did you know he deduced

3627
02:53:56,210 --> 02:53:53,220
that he believes that the craft is

3628
02:53:58,550 --> 02:53:56,220
pancake shaped really makes a lot of

3629
02:54:00,889 --> 02:53:58,560
sense like if you said it was you know

3630
02:54:03,469 --> 02:54:00,899
all the data pointed to it was a zigzag

3631
02:54:06,469 --> 02:54:03,479
shape that wouldn't make any logical

3632
02:54:12,769 --> 02:54:06,479
sense correct yeah so the fact that it's

3633
02:54:13,929 --> 02:54:12,779
this pancake shape that in of itself is

3634
02:54:17,269 --> 02:54:13,939
um

3635
02:54:20,090 --> 02:54:17,279
data that's starting to point in the

3636
02:54:24,050 --> 02:54:20,100
direction of an intelligently designed

3637
02:54:26,929 --> 02:54:24,060
craft it's not asymmetrical it's not

3638
02:54:30,530 --> 02:54:26,939

bulbous it's not shaped like a meteor

3639

02:54:32,450 --> 02:54:30,540

it's a pancake yeah well he brings up he

3640

02:54:34,370 --> 02:54:32,460

brings up that point if it was spherical

3641

02:54:37,190 --> 02:54:34,380

they need to have and it was spinning

3642

02:54:38,929 --> 02:54:37,200

you're not going to have those changes

3643

02:54:40,610 --> 02:54:38,939

all right you know in in light

3644

02:54:42,769 --> 02:54:40,620

Reflection from the Sun you're not going

3645

02:54:44,809 --> 02:54:42,779

to have those changes so that would give

3646

02:54:46,730 --> 02:54:44,819

the indication of a spherical object

3647

02:54:47,929 --> 02:54:46,740

spinning or not right okay so there's

3648

02:54:51,530 --> 02:54:47,939

that

3649

02:54:54,710 --> 02:54:51,540

um but he also and I meant to get to

3650

02:54:57,290 --> 02:54:54,720

this today but uh and I was thinking

3651
02:54:59,450 --> 02:54:57,300
about it but it's you know it's what

3652
02:55:05,150 --> 02:54:59,460
happens in an interview but it was this

3653
02:55:09,769 --> 02:55:05,160
point he didn't say it was flat and

3654
02:55:13,730 --> 02:55:09,779
square he didn't say it was flat and

3655
02:55:16,190 --> 02:55:13,740
triangular he didn't say right he didn't

3656
02:55:20,750 --> 02:55:16,200
say it was shaped like a stop sign he

3657
02:55:23,210 --> 02:55:20,760
didn't say no he said pancake

3658
02:55:27,349 --> 02:55:23,220
why you know what I mean as opposed to

3659
02:55:30,469 --> 02:55:27,359
triangular or Square or maybe it was

3660
02:55:34,670 --> 02:55:30,479
just uh flat and and pancake is the word

3661
02:55:37,130 --> 02:55:34,680
that he used but pancake says to me

3662
02:55:39,050 --> 02:55:37,140
Flying Saucer that's what it does that's

3663
02:55:41,809 --> 02:55:39,060

that's what I think of

3664

02:55:46,010 --> 02:55:41,819

right well it's aerodynamic it's

3665

02:55:47,990 --> 02:55:46,020

spherical if it's pancake shape it that

3666

02:55:51,110 --> 02:55:48,000

means it can flip over because he did

3667

02:55:53,809 --> 02:55:51,120

mention that its motion was tumbling so

3668

02:55:55,010 --> 02:55:53,819

if it's flipping over end on end so

3669

02:55:58,370 --> 02:55:55,020

you're

3670

02:56:01,790 --> 02:55:58,380

able to take advantage of both sides of

3671

02:56:04,849 --> 02:56:01,800

the object both surfaces that are

3672

02:56:08,110 --> 02:56:04,859

equally that are equal then you're

3673

02:56:11,450 --> 02:56:08,120

getting twice the amount of solar energy

3674

02:56:13,670 --> 02:56:11,460

absorption right right now now you are

3675

02:56:16,429 --> 02:56:13,680

the smart you are the smart cookie in

3676

02:56:17,230 --> 02:56:16,439

the room you're the smart pancake in

3677

02:56:20,809 --> 02:56:17,240

that

3678

02:56:22,910 --> 02:56:20,819

tumbling in what direction right because

3679

02:56:24,710 --> 02:56:22,920

that would indicate a lot of different

3680

02:56:27,530 --> 02:56:24,720

things I don't have anything flat in

3681

02:56:30,050 --> 02:56:27,540

here it's kind of strange oh okay I got

3682

02:56:34,309 --> 02:56:30,060

a tape measure and it's it's sort of

3683

02:56:37,010 --> 02:56:34,319

round okay so he's indicating that it

3684

02:56:39,769 --> 02:56:37,020

was tumbling this this is the Sun

3685

02:56:42,349 --> 02:56:39,779

and it's tumbling this way

3686

02:56:44,450 --> 02:56:42,359

okay I'm listening to you not watching

3687

02:56:46,730 --> 02:56:44,460

you but so I can't see what you're doing

3688

02:56:48,230 --> 02:56:46,740

but what if it was tumbling in the

3689

02:56:49,969 --> 02:56:48,240

opposite draw what if it was tumbling

3690

02:56:54,230 --> 02:56:49,979

this way

3691

02:56:56,990 --> 02:56:54,240

right it's so that's a different kind of

3692

02:56:59,570 --> 02:56:57,000

tumble what if it was tumbling at an

3693

02:57:03,590 --> 02:56:59,580

angle that's a different kind of tumble

3694

02:57:06,650 --> 02:57:03,600

with the data uh be

3695

02:57:09,769 --> 02:57:06,660

um would you be able to pull the data

3696

02:57:11,809 --> 02:57:09,779

out uh that would be consistent to show

3697

02:57:14,210 --> 02:57:11,819

you that the tumble was at an angle the

3698

02:57:16,670 --> 02:57:14,220

tumble was a flat tumble the tumble was

3699

02:57:18,950 --> 02:57:16,680

a sideways tumble

3700

02:57:22,070 --> 02:57:18,960

um I am sure that as the numbers are

3701
02:57:24,469 --> 02:57:22,080
spit out and they repeat then you are

3702
02:57:27,170 --> 02:57:24,479
able to see what kind of tumble it is

3703
02:57:31,429 --> 02:57:27,180
right okay because not all tumbles are

3704
02:57:33,769 --> 02:57:31,439
the same and uh or backwards or sideways

3705
02:57:35,330 --> 02:57:33,779
or in you know I said backwards what

3706
02:57:39,110 --> 02:57:35,340
about reverse

3707
02:57:42,530 --> 02:57:39,120
so you could be going in a curlicue yes

3708
02:57:46,969 --> 02:57:42,540
yes corkscrew

3709
02:57:51,769 --> 02:57:46,979
so with with all of that he looked at

3710
02:57:56,809 --> 02:57:51,779
the data he says it was shaped like a

3711
02:58:03,950 --> 02:58:01,030
is Mars Attacks I'm just saying

3712
02:58:07,429 --> 02:58:03,960
that's what I'm thinking yeah yeah

3713
02:58:09,590 --> 02:58:07,439

that's what I'm it is yes that's the

3714

02:58:11,990 --> 02:58:09,600

noise they made the little sound yeah

3715

02:58:14,030 --> 02:58:12,000

yeah yeah yeah yeah yeah because I have

3716

02:58:16,550 --> 02:58:14,040

my Mars Attacks dude around here

3717

02:58:20,150 --> 02:58:16,560

somewhere I have my attack

3718

02:58:22,969 --> 02:58:20,160

um but uh which is different uh man I've

3719

02:58:25,969 --> 02:58:22,979

got calls on hold I feel so bad

3720

02:58:28,490 --> 02:58:25,979

um you know what Carrie let me say good

3721

02:58:32,389 --> 02:58:28,500

night can I say good night

3722

02:58:36,710 --> 02:58:32,399

yes yes you have a wonderful night you

3723

02:58:41,929 --> 02:58:39,230

milk and cookies before bed so you have

3724

02:58:43,490 --> 02:58:41,939

a good night's sleep and have a

3725

02:58:46,190 --> 02:58:43,500

wonderful weekend thank you for

3726

02:58:49,790 --> 02:58:46,200

everything you do for all of us all of

3727

02:58:51,710 --> 02:58:49,800

this fader family we love you we just

3728

02:58:54,050 --> 02:58:51,720

are so grateful and thank thank

3729

02:58:56,150 --> 02:58:54,060

Professor Avi lope again for being on

3730

02:58:58,130 --> 02:58:56,160

the show thank you Carrie and have a

3731

02:59:00,830 --> 02:58:58,140

great safe night and weekend and I'll

3732

02:59:04,070 --> 02:59:00,840

see you here on Monday thank you so much

3733

02:59:07,250 --> 02:59:04,080

thank you good night Carrie in Palm

3734

02:59:08,750 --> 02:59:07,260

Springs and I just chased her off the

3735

02:59:11,389 --> 02:59:08,760

phone and thank you for letting me do

3736

02:59:13,670 --> 02:59:11,399

that Carrie because I wanted to get one

3737

02:59:15,710 --> 02:59:13,680

more call in hi you're live I'm Fade to

3738

02:59:19,849 --> 02:59:15,720

Black

3739

02:59:22,250 --> 02:59:19,859

you're live hi Jimmy Hi who's this

3740

02:59:24,530 --> 02:59:22,260

this is Mark how are you I'm calling

3741

02:59:27,950 --> 02:59:24,540

from Salt Lake uh hi Mark from Salt Lake

3742

02:59:31,910 --> 02:59:27,960

you've got exactly 60 seconds and I'm

3743

02:59:35,929 --> 02:59:31,920

doing this so I don't carry guilt

3744

02:59:39,170 --> 02:59:35,939

oh okay my question is

3745

02:59:40,309 --> 02:59:39,180

if you could choose anyone on this

3746

02:59:44,929 --> 02:59:40,319

planet

3747

02:59:47,690 --> 02:59:44,939

to represent the humans if E.T landed

3748

02:59:51,950 --> 02:59:47,700

tomorrow who would you

3749

02:59:58,490 --> 02:59:54,590

why would you pick George he deserves it

3750

03:00:03,170 --> 02:59:58,500

I would say I would say Eric Von daniken

3751

03:00:04,969 --> 03:00:03,180

But Eric would go give it to Giorgio but

3752

03:00:07,730 --> 03:00:04,979

uh Georgia you know look some of the

3753

03:00:11,150 --> 03:00:07,740

obvi I can tell you who I wouldn't pick

3754

03:00:13,670 --> 03:00:11,160

Neil deGrasse Tyson nah he's at the back

3755

03:00:15,050 --> 03:00:13,680

of the line uh no yeah he's at the back

3756

03:00:18,110 --> 03:00:15,060

of the line

3757

03:00:20,769 --> 03:00:18,120

um Avi Loeb would be great uh you know

3758

03:00:23,750 --> 03:00:20,779

you know who would just be thrilled

3759

03:00:28,070 --> 03:00:23,760

Linda Moulton Howe would lose her mind

3760

03:00:30,050 --> 03:00:28,080

right okay you know um Jimmy that's who

3761

03:00:33,050 --> 03:00:30,060

I would pick yeah I know I know I know

3762

03:00:36,349 --> 03:00:33,060

she she deserves it and she would just

3763

03:00:38,389 --> 03:00:36,359

lose her mind she would lose her mind

3764

03:00:39,950 --> 03:00:38,399

um you know you know who else would be

3765

03:00:43,849 --> 03:00:39,960

great though and I've got five seconds

3766

03:00:46,190 --> 03:00:43,859

Richard bleep and Dolan uh uh deserves a

3767

03:00:48,830 --> 03:00:46,200

seat at the table too as well so maybe

3768

03:00:50,870 --> 03:00:48,840

we should have a delegation maybe we

3769

03:00:54,469 --> 03:00:50,880

should have a delegation where it's it's

3770

03:00:57,469 --> 03:00:54,479

like uh even-handed but uh you know Avi

3771

03:01:01,670 --> 03:00:57,479

lobe oh man you know what he has done so

3772

03:01:04,429 --> 03:01:01,680

much uh for for this planet and and will

3773

03:01:07,070 --> 03:01:04,439

continue to do so with that mark You're

3774

03:01:09,410 --> 03:01:07,080

Gonna Hear Me Roll credits I gotta get

3775

03:01:12,349 --> 03:01:09,420

on out of here man and have a great safe

3776

03:01:14,450 --> 03:01:12,359

fun amazing weekend and I'll see you

3777

03:01:16,670 --> 03:01:14,460

right back here on Monday

3778

03:01:19,969 --> 03:01:16,680

okay have a great weekend Jimmy thank

3779

03:01:22,130 --> 03:01:19,979

you you too Mark thank you and with that

3780

03:01:24,889 --> 03:01:22,140

that wraps another week here uh

3781

03:01:26,570 --> 03:01:24,899

immediately on Monday I'll be back we're

3782

03:01:28,670 --> 03:01:26,580

gonna do a whole thing now we're gonna

3783

03:01:31,250 --> 03:01:28,680

do a world premiere on this movie

3784

03:01:33,590 --> 03:01:31,260

trailer the movie poster the director's

3785

03:01:36,590 --> 03:01:33,600

gonna be here it's going to be great but

3786

03:01:38,510 --> 03:01:36,600

all of that is a surprise okay all right

3787

03:01:40,730 --> 03:01:38,520

Fade to Black is produced by Hilton J

3788

03:01:43,070 --> 03:01:40,740

Palm Renee Dennis and Kevin announcers

3789

03:01:45,410 --> 03:01:43,080

are Steve harder Gene Vito Marti kovar

3790

03:01:47,590 --> 03:01:45,420

webmaster is Drew the geek music Doug

3791

03:01:50,150 --> 03:01:47,600

Aldrich intro space boys

3792

03:01:52,010 --> 03:01:50,160

spaceboymusic.com fade to black is

3793

03:01:55,250 --> 03:01:52,020

produced by kjcr for the game changer

3794

03:01:56,870 --> 03:01:55,260

Network and syndication is kgra the

3795

03:01:59,269 --> 03:01:56,880

planet this broadcast Zone to

3796

03:02:01,429 --> 03:01:59,279

copyrighted 2021 by Fade to Black in the

3797

03:02:03,290 --> 03:02:01,439

game changer Network Inc it cannot be

3798

03:02:04,969 --> 03:02:03,300

re-broadcast downloaded copied or used

3799

03:02:06,710 --> 03:02:04,979

anywhere in the known universe without

3800

03:02:08,330 --> 03:02:06,720

written permission from Fade to Black in

3801

03:02:10,490 --> 03:02:08,340

the game changer Network I'm Yours Timmy

3802

03:02:12,230 --> 03:02:10,500

Church all right no fader night tomorrow

3803

03:02:14,870 --> 03:02:12,240

I gotta work

3804

03:02:18,530 --> 03:02:14,880

but I'll see everybody on Monday have a

3805

03:02:19,060 --> 03:02:18,540

great weekend it's now time to Fade to

3806

03:02:29,580 --> 03:02:19,070

Black