



**WE DISCOVERED ALIEN LIFE, NOW WHAT?
MODERATED BY CAITLIN MCSHEA
MAY 14 · 7PM EDT**



1
00:00:07,749 --> 00:00:05,749
welcome thank you for joining us i'm

2
00:00:10,150 --> 00:00:07,759
linda billings a consultant to nasa's

3
00:00:12,709 --> 00:00:10,160
astrobiology program and i live and work

4
00:00:14,870 --> 00:00:12,719
in sarasota florida where i am right now

5
00:00:16,470 --> 00:00:14,880
i'm a co-chair of this program and my

6
00:00:18,470 --> 00:00:16,480
co-chair caitlin mcshea will be

7
00:00:20,230 --> 00:00:18,480
moderating tonight she'll introduce

8
00:00:21,910 --> 00:00:20,240
herself to you in a minute

9
00:00:23,990 --> 00:00:21,920
what we're going to discuss this evening

10
00:00:26,150 --> 00:00:24,000
is this how will the media and their

11
00:00:28,710 --> 00:00:26,160
audiences respond to the discovery of

12
00:00:31,109 --> 00:00:28,720
evidence of extraterrestrial life will

13
00:00:33,190 --> 00:00:31,119

it be a madhouse how long will it take

14

00:00:34,790 --> 00:00:33,200

for astrobiologists to prove that what

15

00:00:36,790 --> 00:00:34,800

they found is real

16

00:00:38,150 --> 00:00:36,800

how might you respond to an announcement

17

00:00:40,389 --> 00:00:38,160

of the possible detection of

18

00:00:42,869 --> 00:00:40,399

extraterrestrial life who would you

19

00:00:44,950 --> 00:00:42,879

trust to tell you the truth

20

00:00:47,190 --> 00:00:44,960

our panel of experts for this program

21

00:00:49,430 --> 00:00:47,200

are lisa isak professor of science

22

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

fiction studies at georgia tech

23

00:00:54,150 --> 00:00:51,680

andre brock georgia tech professor and

24

00:00:56,150 --> 00:00:54,160

leading scholar of black cyber culture

25

00:00:57,990 --> 00:00:56,160

and tony harris broadcast journalist and

26
00:01:00,229 --> 00:00:58,000
host of the history channel's show the

27
00:01:01,430 --> 00:01:00,239
proof is out there this is going to be

28
00:01:03,510 --> 00:01:01,440
interesting

29
00:01:05,350 --> 00:01:03,520
caitlyn it's all yours that's upstairs

30
00:01:06,469 --> 00:01:05,360
all right well i do want to thank linda

31
00:01:08,310 --> 00:01:06,479
i'm sure she's watching right now so

32
00:01:09,510 --> 00:01:08,320
linda and i got in touch a couple of

33
00:01:11,030 --> 00:01:09,520
months ago to pull this together and

34
00:01:12,710 --> 00:01:11,040
linda did a lot of the

35
00:01:14,149 --> 00:01:12,720
organizing on the back end but i just

36
00:01:15,830 --> 00:01:14,159
want to point to lisa who did all the

37
00:01:20,310 --> 00:01:15,840
organizing obviously because of course

38
00:01:23,190 --> 00:01:21,830

um so thank you all for coming this

39

00:01:24,870 --> 00:01:23,200

should hopefully be a totally fun and

40

00:01:26,870 --> 00:01:24,880

inspiring conversation my name is

41

00:01:28,230 --> 00:01:26,880

caitlin mcshea i work at the santa fe

42

00:01:30,870 --> 00:01:28,240

institute and i'm the director of the

43

00:01:32,630 --> 00:01:30,880

interplanetary project i also manage a

44

00:01:34,069 --> 00:01:32,640

grant that is nationally science the

45

00:01:35,990 --> 00:01:34,079

national science foundation funds that's

46

00:01:37,270 --> 00:01:36,000

on origins of life research that might

47

00:01:38,950 --> 00:01:37,280

sound different than the search for

48

00:01:40,710 --> 00:01:38,960

aliens but life detection and origins of

49

00:01:42,469 --> 00:01:40,720

life are deeply coupled and so we're

50

00:01:44,630 --> 00:01:42,479

having this conversation in advance of

51
00:01:46,149 --> 00:01:44,640
the astrobiology science conver

52
00:01:48,310 --> 00:01:46,159
conversation convention that's happening

53
00:01:49,670 --> 00:01:48,320
actually right here um so my sample

54
00:01:51,670 --> 00:01:49,680
there are you based here where you been

55
00:01:53,510 --> 00:01:51,680
i'm dating something okay okay yes thank

56
00:01:55,109 --> 00:01:53,520
you atlanta for welcoming people

57
00:01:56,310 --> 00:01:55,119
i'm very happy to be here and i'm very

58
00:01:57,990 --> 00:01:56,320
happy to talk to the three of you

59
00:01:59,749 --> 00:01:58,000
because you all kind of represent really

60
00:02:01,030 --> 00:01:59,759
interesting steps of how individuals

61
00:02:02,550 --> 00:02:01,040
react to

62
00:02:04,310 --> 00:02:02,560
really important like schismatic

63
00:02:05,990 --> 00:02:04,320

paradigm shifting news like perhaps the

64

00:02:07,590 --> 00:02:06,000

discovery of aliens so whether or not

65

00:02:09,270 --> 00:02:07,600

that's through traditional journalism

66

00:02:10,630 --> 00:02:09,280

and how we get the people to trust us

67

00:02:12,869 --> 00:02:10,640

the diaphanous overlord that is our

68

00:02:15,510 --> 00:02:12,879

internet and the the artistic way that

69

00:02:16,949 --> 00:02:15,520

we sort of narratively

70

00:02:19,030 --> 00:02:16,959

with these these

71

00:02:20,309 --> 00:02:19,040

big changes and so that's who i am i'm

72

00:02:21,830 --> 00:02:20,319

daily and sell it i'm really happy to be

73

00:02:23,910 --> 00:02:21,840

here and i'm to turn it over to you and

74

00:02:27,030 --> 00:02:23,920

i'm going to ask you all oh

75

00:02:29,190 --> 00:02:28,390

sorry i know that i'm loud but this is

76

00:02:31,430 --> 00:02:29,200

better

77

00:02:32,710 --> 00:02:31,440

okay thank you um yes that's never been

78

00:02:34,150 --> 00:02:32,720

a problem but i'm going to turn it over

79

00:02:35,270 --> 00:02:34,160

to all of you because i have um i i

80

00:02:36,390 --> 00:02:35,280

think that you would do a better job of

81

00:02:38,790 --> 00:02:36,400

introducing yourselves and i'm

82

00:02:40,869 --> 00:02:38,800

particularly curious about

83

00:02:42,470 --> 00:02:40,879

what sort of uh sect of of global

84

00:02:43,670 --> 00:02:42,480

culture you guys represent and what

85

00:02:45,750 --> 00:02:43,680

you're hoping to find out of this

86

00:02:47,910 --> 00:02:45,760

conversation how aliens matter to

87

00:02:49,190 --> 00:02:47,920

y'all's worlds so i want to start with

88

00:02:50,790 --> 00:02:49,200

lisa yes good job today i'd like to

89

00:02:51,589 --> 00:02:50,800

start with lisa that's all right

90

00:02:53,830 --> 00:02:51,599

all right

91

00:02:55,509 --> 00:02:53,840

um hi everyone again i'm lisa yazic i'm

92

00:02:57,430 --> 00:02:55,519

a regents professor of science fiction

93

00:02:59,750 --> 00:02:57,440

studies here at georgia tech

94

00:03:01,190 --> 00:02:59,760

and i'm really interested in science

95

00:03:03,430 --> 00:03:01,200

fiction really believe it's the way we

96

00:03:04,949 --> 00:03:03,440

talk to each other about our experiences

97

00:03:06,550 --> 00:03:04,959

and hopes and fears about science and

98

00:03:08,229 --> 00:03:06,560

technology in the future and we can use

99

00:03:10,949 --> 00:03:08,239

it to talk to each other literally

100

00:03:13,509 --> 00:03:10,959

across centuries continents and cultures

101

00:03:15,589 --> 00:03:13,519

um i'm particularly interested in uh

102

00:03:18,229 --> 00:03:15,599

most of my work has been in uh women's

103

00:03:20,070 --> 00:03:18,239

science fiction science fiction um by

104

00:03:22,309 --> 00:03:20,080

black authors in particular and then

105

00:03:25,270 --> 00:03:22,319

also uh scientists involvement with and

106

00:03:27,190 --> 00:03:25,280

in relations to science fiction and so

107

00:03:30,070 --> 00:03:27,200

um part of what i'm hoping to get out of

108

00:03:30,949 --> 00:03:30,080

this tonight um is is to learn more

109

00:03:33,670 --> 00:03:30,959

about

110

00:03:36,550 --> 00:03:33,680

how how tony and andre see these kinds

111

00:03:37,589 --> 00:03:36,560

of ideas about alien life um circulating

112

00:03:39,350 --> 00:03:37,599

throughout their parts of popular

113

00:03:41,270 --> 00:03:39,360

culture i'm really interested i've done

114

00:03:43,990 --> 00:03:41,280

a lot of work on the ways that uh

115

00:03:45,750 --> 00:03:44,000

scientific ideas circulate from or well

116

00:03:47,830 --> 00:03:45,760

from popular culture to science to

117

00:03:49,030 --> 00:03:47,840

public policy or perhaps in some other

118

00:03:51,110 --> 00:03:49,040

way but the way it moves through those

119

00:03:52,470 --> 00:03:51,120

discourses so i'm excited to learn more

120

00:03:55,429 --> 00:03:52,480

about how they move through through

121

00:03:56,869 --> 00:03:55,439

twitter and uh television as well

122

00:03:58,229 --> 00:03:56,879

oh and i want to learn from all of you

123

00:04:00,149 --> 00:03:58,239

tonight i'm assuming a number of you out

124

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

here are scientists or uh science

125

00:04:04,309 --> 00:04:02,159

fiction people or perhaps aliens

126

00:04:08,710 --> 00:04:04,319

yourselves so we're looking forward to

127

00:04:21,909 --> 00:04:12,390

oh hush andre you can take it next sure

128

00:04:26,070 --> 00:04:24,230

is this good marco okay i can hear so my

129

00:04:28,310 --> 00:04:26,080

name is andre brock i'm a colleague of

130

00:04:30,629 --> 00:04:28,320

leases in the school of literature media

131

00:04:33,110 --> 00:04:30,639

and communication here at georgia tech

132

00:04:34,390 --> 00:04:33,120

and my area of study is black folk on

133

00:04:36,230 --> 00:04:34,400

the internet i've been doing it for

134

00:04:39,030 --> 00:04:36,240

about 20 years now so

135

00:04:41,510 --> 00:04:39,040

from blogs to video games to social

136

00:04:43,270 --> 00:04:41,520

media and now my my current focus and

137

00:04:44,870 --> 00:04:43,280

has been for a little while is twitter

138

00:04:46,950 --> 00:04:44,880

right and i try to bring an

139

00:04:48,550 --> 00:04:46,960

understanding of blackness when there's

140

00:04:50,469 --> 00:04:48,560

nobody present

141

00:04:52,150 --> 00:04:50,479

in the digital and virtual spaces that

142

00:04:54,310 --> 00:04:52,160

we call the internet you know i'm i'm

143

00:04:55,350 --> 00:04:54,320

pretty good at it i do all right nice uh

144

00:04:59,430 --> 00:04:55,360

you'll talk a little bit more about that

145

00:05:04,310 --> 00:05:00,950

we have our own mic on this side thank

146

00:05:05,350 --> 00:05:04,320

you uh good people how are you

147

00:05:08,950 --> 00:05:05,360

so

148

00:05:12,629 --> 00:05:08,960

the history channel show the proof is

149

00:05:14,950 --> 00:05:12,639

out there uh friday nights at 10 pm

150

00:05:16,790 --> 00:05:14,960

eastern time we've got a a new set of

151
00:05:19,029 --> 00:05:16,800
shows that'll be rolling out in june

152
00:05:20,150 --> 00:05:19,039
from the skinwalker ranch is anyone

153
00:05:22,469 --> 00:05:20,160
watching any of the content on the

154
00:05:25,189 --> 00:05:22,479
history channel in this space

155
00:05:26,310 --> 00:05:25,199
anyone has anyone accidentally

156
00:05:29,830 --> 00:05:26,320
fallen

157
00:05:33,510 --> 00:05:29,840
on my show the proof is out there

158
00:05:35,189 --> 00:05:33,520
so uh i uh come to this from a

159
00:05:37,270 --> 00:05:35,199
journalism background

160
00:05:39,189 --> 00:05:37,280
so while the panelists may be interested

161
00:05:42,070 --> 00:05:39,199
in my perspective on this i am keenly

162
00:05:43,029 --> 00:05:42,080
interested in you know how you approach

163
00:05:45,110 --> 00:05:43,039

your work

164

00:05:46,310 --> 00:05:45,120

uh because i think there is a there's a

165

00:05:48,150 --> 00:05:46,320

next level i was just saying this to

166

00:05:50,390 --> 00:05:48,160

kayla i think there's a next level for

167

00:05:51,749 --> 00:05:50,400

our show to reach and a lot of what i'm

168

00:05:53,110 --> 00:05:51,759

interested in is

169

00:05:55,510 --> 00:05:53,120

you know your thoughts

170

00:05:57,110 --> 00:05:55,520

on what we're doing on the tv side how

171

00:06:00,550 --> 00:05:57,120

we can do it better how we can be more

172

00:06:03,400 --> 00:06:00,560

engaging i have a crazy twitter feed

173

00:06:06,469 --> 00:06:03,410

with people who are

174

00:06:07,350 --> 00:06:06,479

[Laughter]

175

00:06:08,469 --> 00:06:07,360

okay

176

00:06:10,230 --> 00:06:08,479

so

177

00:06:11,990 --> 00:06:10,240

you understand that

178

00:06:32,150 --> 00:06:12,000

but our show if you haven't seen it is

179

00:06:36,790 --> 00:06:33,749

take a look at and analyze so we've got

180

00:06:37,990 --> 00:06:36,800

a a great group of what we call experts

181

00:06:39,430 --> 00:06:38,000

and they are in their particular

182

00:06:41,510 --> 00:06:39,440

disciplines of

183

00:06:44,230 --> 00:06:41,520

forensic analysis whether it's audio

184

00:06:47,430 --> 00:06:44,240

whether it's video and and we've got

185

00:06:48,870 --> 00:06:47,440

uh gosh physicists and then a whole host

186

00:06:50,469 --> 00:06:48,880

of folks maybe

187

00:06:51,909 --> 00:06:50,479

uh

188

00:06:53,830 --> 00:06:51,919

trying to think we've got anyone from

189

00:06:56,629 --> 00:06:53,840

georgia tech who's the next

190

00:06:59,110 --> 00:06:56,639

bird on the show

191

00:07:01,110 --> 00:06:59,120

hello

192

00:07:02,469 --> 00:07:01,120

we do a little recruiting while i'm here

193

00:07:04,309 --> 00:07:02,479

so just sort of take a look at these

194

00:07:06,469 --> 00:07:04,319

videos so in essence we're a clip show

195

00:07:07,990 --> 00:07:06,479

of of what we find on the internet what

196

00:07:10,870 --> 00:07:08,000

people send to us

197

00:07:13,909 --> 00:07:10,880

but more and more um as

198

00:07:15,589 --> 00:07:13,919

congress looks into this space as nasa

199

00:07:16,309 --> 00:07:15,599

continues to look into the space i think

200

00:07:19,510 --> 00:07:16,319

you all know that there are

201
00:07:21,589 --> 00:07:19,520
congressional hearings on this next week

202
00:07:23,189 --> 00:07:21,599
right clearly our show will be following

203
00:07:25,350 --> 00:07:23,199
up on that when disclosure the

204
00:07:28,070 --> 00:07:25,360
disclosure paper was released

205
00:07:29,830 --> 00:07:28,080
i ended up doing two hours on that um

206
00:07:32,070 --> 00:07:29,840
and so what we try to do is render a

207
00:07:34,150 --> 00:07:32,080
verdict on the videos that we get

208
00:07:38,309 --> 00:07:34,160
uh sometimes it's inconclusive sometimes

209
00:07:40,390 --> 00:07:38,319
we we call it in uh our findings um

210
00:07:42,469 --> 00:07:40,400
you know an alien

211
00:07:45,189 --> 00:07:42,479
because there's a technical definition

212
00:07:46,629 --> 00:07:45,199
of what that is and don't ask me to call

213
00:07:47,830 --> 00:07:46,639

it out to you right now i know like

214

00:07:50,869 --> 00:07:47,840

caitlyn

215

00:07:51,830 --> 00:07:50,879

um but yeah so it's it's been a who to

216

00:07:53,909 --> 00:07:51,840

do and

217

00:07:55,909 --> 00:07:53,919

the engagement of this audience has been

218

00:07:57,430 --> 00:07:55,919

more than than i ever anticipated i

219

00:08:00,230 --> 00:07:57,440

thought we would do 10 episodes of the

220

00:08:03,110 --> 00:08:00,240

show and then we move on

221

00:08:04,950 --> 00:08:03,120

here we are now about to shoot uh our

222

00:08:07,430 --> 00:08:04,960

third season and at the end of the third

223

00:08:09,350 --> 00:08:07,440

season we'll be up over 100 episodes of

224

00:08:12,629 --> 00:08:09,360

this show which is insane

225

00:08:14,869 --> 00:08:12,639

um particularly for someone who spent

226

00:08:16,230 --> 00:08:14,879

the better part of 30

227

00:08:17,990 --> 00:08:16,240

some odd years

228

00:08:20,469 --> 00:08:18,000

uh in the journalism space straight up

229

00:08:21,909 --> 00:08:20,479

journalism space from cnn to al jazeera

230

00:08:23,990 --> 00:08:21,919

english in the middle east covering the

231

00:08:26,469 --> 00:08:24,000

arab spring to to find myself in this

232

00:08:29,350 --> 00:08:26,479

space is just a hoot uh never

233

00:08:31,189 --> 00:08:29,360

anticipated it but um i'm happy to be

234

00:08:32,550 --> 00:08:31,199

here and i'm happy to learn from you all

235

00:08:34,630 --> 00:08:32,560

in this panel

236

00:08:37,029 --> 00:08:34,640

um as we try to make our show better and

237

00:08:38,630 --> 00:08:37,039

and communicate this this

238

00:08:41,269 --> 00:08:38,640

this frontier

239

00:08:43,269 --> 00:08:41,279

to um an audience that really seems to

240

00:08:45,190 --> 00:08:43,279

be into it so i'm happy to be here

241

00:08:46,150 --> 00:08:45,200

that's way too long sorry we're happy

242

00:08:47,990 --> 00:08:46,160

you're here

243

00:08:49,190 --> 00:08:48,000

um so with that i think you know there's

244

00:08:50,870 --> 00:08:49,200

sort of a timeline that i'm hoping to

245

00:08:52,150 --> 00:08:50,880

follow with this conversation of course

246

00:08:53,509 --> 00:08:52,160

you're all here because we're sort of

247

00:08:54,870 --> 00:08:53,519

settling in the speculative space that

248

00:08:56,550 --> 00:08:54,880

alien life has been discovered and what

249

00:08:57,590 --> 00:08:56,560

does that mean but before we get there i

250

00:08:59,269 --> 00:08:57,600

think it would be really interesting to

251
00:08:59,990 --> 00:08:59,279
reflect upon the way that aliens have

252
00:09:01,509 --> 00:09:00,000
been

253
00:09:03,750 --> 00:09:01,519
represented across various forms of

254
00:09:04,870 --> 00:09:03,760
media in this sort of like pre-discovery

255
00:09:07,030 --> 00:09:04,880
phase

256
00:09:09,670 --> 00:09:07,040
theoretically until we have an example

257
00:09:12,310 --> 00:09:09,680
of astrobiology every

258
00:09:13,670 --> 00:09:12,320
aliens if unconfirmed is necessarily

259
00:09:15,910 --> 00:09:13,680
imaginative and speculative and so i

260
00:09:17,750 --> 00:09:15,920
wonder how those representations kind of

261
00:09:20,150 --> 00:09:17,760
mediate our experience in the universe

262
00:09:21,670 --> 00:09:20,160
and allow us to understand ourselves and

263
00:09:22,870 --> 00:09:21,680

i think that we have a lot of media to

264

00:09:24,310 --> 00:09:22,880

cover here so i don't know who wants to

265

00:09:28,790 --> 00:09:24,320

take that first but that's sort of my

266

00:09:32,790 --> 00:09:30,470

i would like to know how representations

267

00:09:34,150 --> 00:09:32,800

of aliens pre-discovery in this moment

268

00:09:35,509 --> 00:09:34,160

before we have them

269

00:09:36,870 --> 00:09:35,519

right now the moment that we're in now

270

00:09:38,630 --> 00:09:36,880

before we get speculative and then i say

271

00:09:40,470 --> 00:09:38,640

we're in that moment um how

272

00:09:41,829 --> 00:09:40,480

representations of aliens

273

00:09:44,630 --> 00:09:41,839

matter or factor to the way that we

274

00:09:46,550 --> 00:09:44,640

navigate the universe

275

00:09:47,590 --> 00:09:46,560

take it i will i've talked about this

276

00:09:49,509 --> 00:09:47,600

before

277

00:09:51,110 --> 00:09:49,519

who watched the amc james cameron's

278

00:09:52,630 --> 00:09:51,120

story of science fiction and you'll hear

279

00:09:53,829 --> 00:09:52,640

me say thank you i thought it was really

280

00:09:56,070 --> 00:09:53,839

fun i liked being on it how many

281

00:09:57,670 --> 00:09:56,080

episodes were you in

282

00:09:59,750 --> 00:09:57,680

how many episodes

283

00:10:01,350 --> 00:09:59,760

six i'm in all this one

284

00:10:03,509 --> 00:10:01,360

just one just one

285

00:10:04,870 --> 00:10:03,519

it's a great series though and they told

286

00:10:07,430 --> 00:10:04,880

me that me and steven spielberg were the

287

00:10:09,509 --> 00:10:07,440

two nicest people to work with so

288

00:10:11,430 --> 00:10:09,519

all right so we were the only ones who

289

00:10:13,590 --> 00:10:11,440

actually like looked at the questions in

290

00:10:17,590 --> 00:10:13,600

advance apparently

291

00:10:20,550 --> 00:10:19,269

really i i

292

00:10:21,990 --> 00:10:20,560

i mean this really is like i think the

293

00:10:23,430 --> 00:10:22,000

science fiction question because right

294

00:10:25,509 --> 00:10:23,440

this is where we get our ideas about

295

00:10:26,949 --> 00:10:25,519

aliens from our from science fiction and

296

00:10:29,350 --> 00:10:26,959

especially i would say from media

297

00:10:31,269 --> 00:10:29,360

science fiction and at least for the you

298

00:10:32,630 --> 00:10:31,279

know i'd say um the world community at

299

00:10:35,509 --> 00:10:32,640

large most people i think get their

300

00:10:36,790 --> 00:10:35,519

science fiction uh that way some of you

301
00:10:38,870 --> 00:10:36,800
might be readers though but as we all

302
00:10:41,509 --> 00:10:38,880
know right science fiction especially in

303
00:10:43,190 --> 00:10:41,519
film uh and and on television maybe to a

304
00:10:44,790 --> 00:10:43,200
lesser extent sorta has always had two

305
00:10:46,310 --> 00:10:44,800
ways of representing aliens broadly

306
00:10:47,509 --> 00:10:46,320
speaking they're either humanoid and

307
00:10:48,870 --> 00:10:47,519
they look a lot like us and if they're

308
00:10:51,509 --> 00:10:48,880
lucky they're on star trek and they have

309
00:10:54,230 --> 00:10:51,519
very attractive um you know uh let's

310
00:10:55,269 --> 00:10:54,240
make clear their humanoid similarities

311
00:10:58,069 --> 00:10:55,279
to us right

312
00:11:00,150 --> 00:10:58,079
or they are that very opposite thing to

313
00:11:01,829 --> 00:11:00,160

us those social creatures that act with

314

00:11:04,470 --> 00:11:01,839

hive minds they're bugs bug-eyed

315

00:11:06,790 --> 00:11:04,480

monsters literal bugs for instance

316

00:11:08,630 --> 00:11:06,800

starship troopers right exactly

317

00:11:09,590 --> 00:11:08,640

sometimes like in the andromeda strain

318

00:11:11,990 --> 00:11:09,600

they're like

319

00:11:13,509 --> 00:11:12,000

small bugs viruses things like that and

320

00:11:15,990 --> 00:11:13,519

so generally those are the two ways that

321

00:11:18,550 --> 00:11:16,000

we've seen those uh aliens represented

322

00:11:20,949 --> 00:11:18,560

and that comes out of the long history

323

00:11:25,110 --> 00:11:20,959

of colonization right science fiction

324

00:11:28,630 --> 00:11:25,120

grows up in the 19th century modeled on

325

00:11:31,190 --> 00:11:28,640

the colonization and discovery voyages

326

00:11:32,710 --> 00:11:31,200

undertaken by people throughout the west

327

00:11:34,949 --> 00:11:32,720

but really people are modeling their

328

00:11:36,710 --> 00:11:34,959

early encounters with aliens on our

329

00:11:38,870 --> 00:11:36,720

encounters or on on white people's

330

00:11:41,190 --> 00:11:38,880

encounters with other humans who didn't

331

00:11:43,110 --> 00:11:41,200

quite look like them necessarily right

332

00:11:45,350 --> 00:11:43,120

and so no wonder and this is all during

333

00:11:48,150 --> 00:11:45,360

darwinism so no wonder it's either like

334

00:11:50,150 --> 00:11:48,160

human men like in competition with

335

00:11:52,470 --> 00:11:50,160

bug-eyed monsters for scarce resources

336

00:11:55,350 --> 00:11:52,480

like water and women think flash gordon

337

00:11:56,550 --> 00:11:55,360

here right exactly um

338

00:11:59,910 --> 00:11:56,560

or

339

00:12:03,829 --> 00:11:59,920

gonna be that i was gonna talk about oh

340

00:12:06,790 --> 00:12:03,839

or or else um brave strong um manly men

341

00:12:08,790 --> 00:12:06,800

human men are are both attracted to and

342

00:12:11,350 --> 00:12:08,800

yet threatened by beautiful alien

343

00:12:13,190 --> 00:12:11,360

monsters who are just as sexy as human

344

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

women but have a lot more knowledge and

345

00:12:16,710 --> 00:12:15,600

technology than the men do right and so

346

00:12:18,310 --> 00:12:16,720

you got to find a way to get those

347

00:12:19,990 --> 00:12:18,320

things under control i think if any of

348

00:12:22,629 --> 00:12:20,000

you have ever seen

349

00:12:24,310 --> 00:12:22,639

um forbidden planet alta the scientist

350

00:12:25,750 --> 00:12:24,320

daughter she sort of is like that alien

351

00:12:27,990 --> 00:12:25,760

figure right because she's not raised

352

00:12:29,670 --> 00:12:28,000

around humans and so she acts like a man

353

00:12:31,350 --> 00:12:29,680

which they all find very upsetting and

354

00:12:33,030 --> 00:12:31,360

titillating all at once this is the

355

00:12:35,110 --> 00:12:33,040

1950s guys

356

00:12:37,190 --> 00:12:35,120

although the sex jokes in that movie are

357

00:12:38,710 --> 00:12:37,200

shocking i have to say all right so

358

00:12:41,190 --> 00:12:38,720

anyways i think that that's where most

359

00:12:43,110 --> 00:12:41,200

of our our images come from i do i know

360

00:12:44,629 --> 00:12:43,120

i'm the one going on forever right

361

00:12:47,670 --> 00:12:44,639

france science fiction has been i think

362

00:12:49,269 --> 00:12:47,680

a little bit more um creative with its

363

00:12:51,430 --> 00:12:49,279

representations of aliens and i think

364

00:12:53,030 --> 00:12:51,440

that's in part because print and to a

365

00:12:54,949 --> 00:12:53,040

certain extent this is true of games and

366

00:12:56,470 --> 00:12:54,959

comics as well they don't have to make

367

00:12:59,110 --> 00:12:56,480

the kind of money they're not in the

368

00:13:01,509 --> 00:12:59,120

same economic sort of production system

369

00:13:02,949 --> 00:13:01,519

as movies movies and tv shows have to

370

00:13:04,790 --> 00:13:02,959

make back all the money that go into

371

00:13:06,310 --> 00:13:04,800

them and so you go with what's safe and

372

00:13:08,230 --> 00:13:06,320

you tend to keep doing the same images

373

00:13:10,629 --> 00:13:08,240

over and over again and the ones that

374

00:13:11,750 --> 00:13:10,639

work right but lisa can i ask you what

375

00:13:13,990 --> 00:13:11,760

what is

376

00:13:16,230 --> 00:13:14,000

so for someone like me who you know oh

377

00:13:17,670 --> 00:13:16,240

i'm sorry

378

00:13:19,110 --> 00:13:17,680

for someone like me who grew up you know

379

00:13:22,230 --> 00:13:19,120

inner city baltimore and this and the

380

00:13:24,949 --> 00:13:22,240

other and and and the whole notion of of

381

00:13:26,629 --> 00:13:24,959

alien life comes to me from

382

00:13:28,629 --> 00:13:26,639

james t kirk

383

00:13:30,069 --> 00:13:28,639

right right right and so i'm i'm

384

00:13:32,310 --> 00:13:30,079

wondering

385

00:13:33,990 --> 00:13:32,320

you know uh as as i sort of work through

386

00:13:35,590 --> 00:13:34,000

this show and i'm trying to understand

387

00:13:37,910 --> 00:13:35,600

and get and get

388

00:13:39,509 --> 00:13:37,920

better understanding of what i am to

389

00:13:41,110 --> 00:13:39,519

think of this world that i'm now

390

00:13:42,230 --> 00:13:41,120

inhabiting

391

00:13:43,990 --> 00:13:42,240

um

392

00:13:47,189 --> 00:13:44,000

what am i to think about those those

393

00:13:49,509 --> 00:13:47,199

early images and and of men and women

394

00:13:51,750 --> 00:13:49,519

and how they're interacting and and and

395

00:13:53,590 --> 00:13:51,760

what science fiction it's it's the

396

00:13:56,870 --> 00:13:53,600

science

397

00:13:59,509 --> 00:13:56,880

that grounds us right and the fiction

398

00:14:01,189 --> 00:13:59,519

is forward casting or future casting

399

00:14:05,509 --> 00:14:01,199

right necessarily i think it's actually

400

00:14:09,750 --> 00:14:07,350

yes good pivot there

401
00:14:11,269 --> 00:14:09,760
he's an experienced journalist right

402
00:14:12,629 --> 00:14:11,279
um but i think it's actually the exact

403
00:14:13,670 --> 00:14:12,639
opposite we don't know what aliens are

404
00:14:15,670 --> 00:14:13,680
going to look like right so we

405
00:14:18,310 --> 00:14:15,680
extrapolate them off our own encounters

406
00:14:19,910 --> 00:14:18,320
with alien others in our own world

407
00:14:22,150 --> 00:14:19,920
uh whether that

408
00:14:24,069 --> 00:14:22,160
with a racial other or a sex or gendered

409
00:14:25,990 --> 00:14:24,079
other or i don't know a disciplinary

410
00:14:27,350 --> 00:14:26,000
other i can say to you guys for it as a

411
00:14:29,910 --> 00:14:27,360
science fiction scholar talking probably

412
00:14:32,230 --> 00:14:29,920
to a lot of scientists here um and it's

413
00:14:34,150 --> 00:14:32,240

actually it's those gendered and raced

414

00:14:35,990 --> 00:14:34,160

markers that anchor it in the real like

415

00:14:53,750 --> 00:14:36,000

we don't know what alien life is going

416

00:14:57,269 --> 00:14:55,910

i mean and profoundly so

417

00:15:00,150 --> 00:14:57,279

i'm gonna stop there then i've got tony

418

00:15:02,550 --> 00:15:00,160

wowie yeah that's good

419

00:15:03,990 --> 00:15:02,560

andre take it away my contribution to

420

00:15:06,949 --> 00:15:04,000

this would be from the other side so

421

00:15:09,430 --> 00:15:06,959

lisa smartly mentions that a lot of

422

00:15:11,269 --> 00:15:09,440

science fiction has placed certain

423

00:15:13,110 --> 00:15:11,279

bodies certain

424

00:15:14,710 --> 00:15:13,120

nations certain religions as others

425

00:15:16,230 --> 00:15:14,720

right and i would add fantasy to that as

426

00:15:18,150 --> 00:15:16,240

well right those of you familiar with

427

00:15:21,670 --> 00:15:18,160

lord of the rings are very much aware of

428

00:15:23,990 --> 00:15:21,680

how um tolkien viewed racial others

429

00:15:26,389 --> 00:15:24,000

right or even the elves right uh for me

430

00:15:28,470 --> 00:15:26,399

though my work has as i mentioned

431

00:15:29,910 --> 00:15:28,480

at the introductions i've always been

432

00:15:31,590 --> 00:15:29,920

curious to see how black folk are

433

00:15:32,710 --> 00:15:31,600

represented in these other worldly

434

00:15:34,550 --> 00:15:32,720

narratives i've been reading science

435

00:15:35,990 --> 00:15:34,560

fiction since i was a kid i was raised

436

00:15:38,310 --> 00:15:36,000

who was the guy who was doing the mayan

437

00:15:40,069 --> 00:15:38,320

pyramids and the the things from space i

438

00:15:41,030 --> 00:15:40,079

can't remember gosh i both have read him

439

00:15:43,110 --> 00:15:41,040

too i don't know what i'm talking about

440

00:15:44,710 --> 00:15:43,120

yes maybe you maybe you are all of a

441

00:15:45,910 --> 00:15:44,720

certain age there used to be this huge

442

00:15:47,670 --> 00:15:45,920

thing where they would look at these

443

00:15:49,269 --> 00:15:47,680

crop circles or these images in the

444

00:15:51,990 --> 00:15:49,279

mayan mountains about how they had

445

00:15:54,710 --> 00:15:52,000

certain things right uh and then from

446

00:15:55,910 --> 00:15:54,720

there uh my upbringing also included

447

00:15:58,550 --> 00:15:55,920

large amounts of parliament and

448

00:16:01,189 --> 00:15:59,269

right

449

00:16:03,350 --> 00:16:01,199

black folk envision themselves as being

450

00:16:05,030 --> 00:16:03,360

freed of these earthly bonds and being

451

00:16:07,030 --> 00:16:05,040

able to take both their style and their

452

00:16:08,949 --> 00:16:07,040

substance the funk and the technology

453

00:16:10,310 --> 00:16:08,959

out in the space right and so for me

454

00:16:12,949 --> 00:16:10,320

i've always been interested to

455

00:16:16,150 --> 00:16:12,959

understand um what it means to be the

456

00:16:18,389 --> 00:16:16,160

other the alien in western society right

457

00:16:19,910 --> 00:16:18,399

uh even as my body in many ways looks

458

00:16:22,949 --> 00:16:19,920

just like yours from the epidermis

459

00:16:25,509 --> 00:16:22,959

inside right uh and so that has actually

460

00:16:27,189 --> 00:16:25,519

led me directly to my investigation

461

00:16:28,389 --> 00:16:27,199

because the internet is also if you

462

00:16:30,230 --> 00:16:28,399

think about it a science fiction all

463

00:16:32,949 --> 00:16:30,240

kind of place i'm old enough to remember

464

00:16:34,710 --> 00:16:32,959

uh where we just had labs or time shares

465

00:16:37,749 --> 00:16:34,720

right on computers we did not all have

466

00:16:39,030 --> 00:16:37,759

personal computers right uh and

467

00:16:40,710 --> 00:16:39,040

i remember a time when answering

468

00:16:43,189 --> 00:16:40,720

machines were considered the height of

469

00:16:45,590 --> 00:16:43,199

technology

470

00:16:48,310 --> 00:16:45,600

right and so uh understanding the ways

471

00:16:51,189 --> 00:16:48,320

that we are now able to invent invest

472

00:16:52,470 --> 00:16:51,199

and produce ourselves and virtual spaces

473

00:16:54,389 --> 00:16:52,480

and online spaces whether it's your

474

00:16:56,870 --> 00:16:54,399

children playing fork knife and i know i

475

00:16:58,870 --> 00:16:56,880

mispronounced it on purpose right

476

00:17:00,790 --> 00:16:58,880

or it's you yourself arguing with your

477

00:17:02,470 --> 00:17:00,800

people of a certain age on facebook

478

00:17:04,230 --> 00:17:02,480

right we have taken these taken to these

479

00:17:06,150 --> 00:17:04,240

virtual spaces and brought ourselves to

480

00:17:08,309 --> 00:17:06,160

them yet and still black folk are not

481

00:17:10,309 --> 00:17:08,319

necessarily understood as appropriate

482

00:17:11,990 --> 00:17:10,319

users of these spaces and so that part

483

00:17:13,270 --> 00:17:12,000

has always been exciting to me because

484

00:17:15,590 --> 00:17:13,280

technically

485

00:17:17,350 --> 00:17:15,600

technologically right those spaces

486

00:17:19,189 --> 00:17:17,360

should be equitable not necessarily

487

00:17:21,750 --> 00:17:19,199

democratic right because democratic is

488

00:17:23,350 --> 00:17:21,760

kind of a artifact of what how americans

489

00:17:25,429 --> 00:17:23,360

think the world should be as opposed to

490

00:17:27,350 --> 00:17:25,439

how the world actually is but spaces

491

00:17:29,430 --> 00:17:27,360

where we should have a flat hierarchy of

492

00:17:31,510 --> 00:17:29,440

representation and yet still for some

493

00:17:34,390 --> 00:17:31,520

reason black folks still find themselves

494

00:17:36,710 --> 00:17:34,400

at a divide right they're both uh some

495

00:17:39,909 --> 00:17:36,720

of the most wildly inventive it's highly

496

00:17:42,870 --> 00:17:39,919

stylistic uh deeply sought after taste

497

00:17:45,270 --> 00:17:42,880

makers and they're also considered the

498

00:17:47,110 --> 00:17:45,280

most rabble-rousing mob culture cancel

499

00:17:49,110 --> 00:17:47,120

culture people in the same space and i'm

500

00:17:51,190 --> 00:17:49,120

like well why why if we're in a virtual

501
00:17:52,870 --> 00:17:51,200
space not even outer space why do we

502
00:17:54,789 --> 00:17:52,880
still retain these these types of things

503
00:17:56,630 --> 00:17:54,799
so i'll leave i'll stop there because i

504
00:17:58,870 --> 00:17:56,640
don't have as much and the only thing i

505
00:18:01,950 --> 00:17:58,880
would add to that

506
00:18:07,590 --> 00:18:05,230
1977. so the yes it was james t kirk in

507
00:18:10,789 --> 00:18:07,600
1977. i was just graduating from high

508
00:18:13,669 --> 00:18:10,799
school yeah i'm 62 years old which means

509
00:18:14,549 --> 00:18:13,679
which means i was at the baltimore civic

510
00:18:15,430 --> 00:18:14,559
center

511
00:18:17,830 --> 00:18:15,440
when

512
00:18:19,029 --> 00:18:17,840
george clinton brought

513
00:18:21,190 --> 00:18:19,039

the

514

00:18:22,150 --> 00:18:21,200

leadership connections

515

00:18:25,190 --> 00:18:22,160

tour

516

00:18:26,310 --> 00:18:25,200

to baltimore with the spaceship coming

517

00:18:28,789 --> 00:18:26,320

down

518

00:18:30,789 --> 00:18:28,799

yes that's all i bet this spaceship is

519

00:18:32,390 --> 00:18:30,799

in the smithsonian museum now is it

520

00:18:34,470 --> 00:18:32,400

really yes okay

521

00:18:36,549 --> 00:18:34,480

i'm trying to find other artifacts or

522

00:18:37,830 --> 00:18:36,559

whatever else to place on the set

523

00:18:39,350 --> 00:18:37,840

right

524

00:18:40,549 --> 00:18:39,360

and i'll keep looking well i want to

525

00:18:41,830 --> 00:18:40,559

stick with this notion of otherness

526

00:18:43,350 --> 00:18:41,840

because this is really exciting to me i

527

00:18:45,190 --> 00:18:43,360

think when we think about how aliens are

528

00:18:46,470 --> 00:18:45,200

represented in fiction um and i just

529

00:18:47,909 --> 00:18:46,480

want to say i think the forbidden planet

530

00:18:48,870 --> 00:18:47,919

is an excellent example but i also want

531

00:18:50,310 --> 00:18:48,880

to say that that's actually an

532

00:18:51,110 --> 00:18:50,320

adaptation of shakespeare's tempest so

533

00:18:54,549 --> 00:18:51,120

this is something that we've been

534

00:18:57,830 --> 00:18:56,230

well but who's colonization did they

535

00:18:59,669 --> 00:18:57,840

leave and colonize the mountain and now

536

00:19:00,950 --> 00:18:59,679

people are recolonizing the island it's

537

00:19:02,630 --> 00:19:00,960

like it's it's questionable and it goes

538

00:19:04,310 --> 00:19:02,640

in both directions i don't know a bunch

539

00:19:05,909 --> 00:19:04,320

of white guys kick a black woman off the

540

00:19:07,430 --> 00:19:05,919

island and take her in sleep or son i

541

00:19:09,110 --> 00:19:07,440

think that's cigarettes

542

00:19:11,029 --> 00:19:09,120

right but then but then you could make

543

00:19:12,710 --> 00:19:11,039

the arguments prosperous is now like

544

00:19:14,390 --> 00:19:12,720

kind of the the island

545

00:19:16,310 --> 00:19:14,400

yeah i'm just saying it goes it's

546

00:19:18,150 --> 00:19:16,320

omnidirectional but it's a question that

547

00:19:19,909 --> 00:19:18,160

we've been tampering with for a while i

548

00:19:21,909 --> 00:19:19,919

really like this idea that maybe there's

549

00:19:24,470 --> 00:19:21,919

um this sort of like afrofuturistic

550

00:19:25,990 --> 00:19:24,480

diaspora that's looking to like maintain

551
00:19:27,190 --> 00:19:26,000
the otherness by going out there

552
00:19:29,350 --> 00:19:27,200
bringing what's theirs that's

553
00:19:31,350 --> 00:19:29,360
unrecognized elsewhere and so then i

554
00:19:34,070 --> 00:19:31,360
guess my question is if we find a truly

555
00:19:35,909 --> 00:19:34,080
other other how does that change the way

556
00:19:38,549 --> 00:19:35,919
that we understand ourselves do you

557
00:19:39,909 --> 00:19:38,559
think we will absolutely

558
00:19:41,230 --> 00:19:39,919
for sure

559
00:19:42,870 --> 00:19:41,240
do you think we will find

560
00:19:46,150 --> 00:19:42,880
[Music]

561
00:19:47,430 --> 00:19:46,160
that's right on mars

562
00:19:48,549 --> 00:19:47,440
i don't know

563
00:19:49,510 --> 00:19:48,559

it depends on what we're looking for

564

00:19:50,710 --> 00:19:49,520

maybe we were looking for the wrong

565

00:19:52,710 --> 00:19:50,720

things the last time we sent those

566

00:19:54,230 --> 00:19:52,720

missions out there anyway so that's my

567

00:19:55,510 --> 00:19:54,240

question how does otherness change when

568

00:19:57,270 --> 00:19:55,520

another other comes around and it

569

00:19:59,029 --> 00:19:57,280

becomes a little different than

570

00:20:00,870 --> 00:19:59,039

selective elective etcetera and express

571

00:20:01,990 --> 00:20:00,880

an expression if this is dead we're

572

00:20:03,510 --> 00:20:02,000

going to have to just share the word

573

00:20:04,710 --> 00:20:03,520

great i want to i want to redirect

574

00:20:06,310 --> 00:20:04,720

slightly though yeah i'm going to bring

575

00:20:08,230 --> 00:20:06,320

you in this conversation as my moderator

576

00:20:09,830 --> 00:20:08,240

if you don't mind but how does your

577

00:20:13,750 --> 00:20:09,840

field understand

578

00:20:15,990 --> 00:20:13,760

otherness right uh there you go

579

00:20:18,390 --> 00:20:16,000

uh not only race but including race and

580

00:20:20,390 --> 00:20:18,400

gender right but as are microcellular

581

00:20:22,310 --> 00:20:20,400

organisms that exobiologists and

582

00:20:24,070 --> 00:20:22,320

astrobiologists want to want to study

583

00:20:25,909 --> 00:20:24,080

are they considered dramatically

584

00:20:27,190 --> 00:20:25,919

different from earthly organisms right

585

00:20:29,190 --> 00:20:27,200

yes

586

00:20:30,549 --> 00:20:29,200

thank you for the setup so um i would

587

00:20:32,149 --> 00:20:30,559

say that the the kind of sect that i

588

00:20:34,390 --> 00:20:32,159

fall into in terms of my interest in

589

00:20:35,750 --> 00:20:34,400

astrobiology is the agnostic sect and so

590

00:20:37,110 --> 00:20:35,760

the mission that i was just recently

591

00:20:38,470 --> 00:20:37,120

referring to is the viking missions and

592

00:20:41,110 --> 00:20:38,480

the viking missions went to mars looking

593

00:20:43,190 --> 00:20:41,120

for like habitability water or signs of

594

00:20:44,549 --> 00:20:43,200

life dna but the idea that we're gonna

595

00:20:46,310 --> 00:20:44,559

find life that looks just like ours on

596

00:20:48,230 --> 00:20:46,320

planets that look nothing like ours is

597

00:20:50,149 --> 00:20:48,240

sort of preposterous and limited and so

598

00:20:51,590 --> 00:20:50,159

i'm much more interested in the agnostic

599

00:20:53,510 --> 00:20:51,600

camp that's looking for

600

00:20:55,270 --> 00:20:53,520

sort of generalities across life because

601
00:20:56,390 --> 00:20:55,280
we expect that these weird places are

602
00:20:58,549 --> 00:20:56,400
going to generate weird life that we

603
00:21:00,070 --> 00:20:58,559
couldn't possibly recognize so i'm like

604
00:21:01,590 --> 00:21:00,080
really interested in the way that life

605
00:21:03,830 --> 00:21:01,600
does stuff as opposed to what it's made

606
00:21:05,190 --> 00:21:03,840
out of and for me just philosophically

607
00:21:07,750 --> 00:21:05,200
my like hypothesis and there's a group

608
00:21:09,190 --> 00:21:07,760
of people who are doing this formally um

609
00:21:11,029 --> 00:21:09,200
it seems that life makes interesting

610
00:21:13,190 --> 00:21:11,039
things out of stuff and so if we had a

611
00:21:14,390 --> 00:21:13,200
way to sort of find that in the universe

612
00:21:16,630 --> 00:21:14,400
i think we'd have a much better

613
00:21:18,710 --> 00:21:16,640

opportunity of finding life and when we

614

00:21:20,230 --> 00:21:18,720

do it will be extremely other to what

615

00:21:21,830 --> 00:21:20,240

we're used to because we're really an n

616

00:21:23,350 --> 00:21:21,840

of one even though we've got this

617

00:21:25,590 --> 00:21:23,360

tremendous biodiversity across the

618

00:21:27,990 --> 00:21:25,600

planet we're one biological example in

619

00:21:29,510 --> 00:21:28,000

the universe so even if we do manage to

620

00:21:31,590 --> 00:21:29,520

find something through some lens and for

621

00:21:33,830 --> 00:21:31,600

me it's artistry if we find some sort of

622

00:21:34,870 --> 00:21:33,840

thing that's making art out there

623

00:21:36,390 --> 00:21:34,880

even though it's going to look so

624

00:21:38,070 --> 00:21:36,400

utterly bizarre different from us

625

00:21:39,350 --> 00:21:38,080

necessarily if it's life and we agree

626

00:21:40,789 --> 00:21:39,360

that it's life and we agree that we're

627

00:21:42,470 --> 00:21:40,799

life then it's going to point to some

628

00:21:44,549 --> 00:21:42,480

commonality that i think will be

629

00:21:46,950 --> 00:21:44,559

extremely informative to like the big

630

00:21:49,430 --> 00:21:46,960

question the why of being the why are we

631

00:21:51,270 --> 00:21:49,440

here so that's my sort of so i would say

632

00:21:52,950 --> 00:21:51,280

extremely agnostic even beyond cells

633

00:21:55,110 --> 00:21:52,960

even beyond microorganisms i'm talking

634

00:21:56,870 --> 00:21:55,120

like maybe crystal sand structures or

635

00:21:58,789 --> 00:21:56,880

just weird little dynamical processes

636

00:22:00,630 --> 00:21:58,799

and little caverns who knows where i'm

637

00:22:02,789 --> 00:22:00,640

always worried that weyland yutani will

638

00:22:05,350 --> 00:22:02,799

come in and we'll have to send signing

639

00:22:06,870 --> 00:22:05,360

weaver back out to congress

640

00:22:08,630 --> 00:22:06,880

so your question was the other other

641

00:22:09,830 --> 00:22:08,640

yeah so what happens with like a stand

642

00:22:11,270 --> 00:22:09,840

structure if we all agree that there's

643

00:22:14,070 --> 00:22:11,280

sufficient evidence to call this sand

644

00:22:16,070 --> 00:22:14,080

structure life how does that make um the

645

00:22:17,750 --> 00:22:16,080

otherness within our own representations

646

00:22:29,590 --> 00:22:17,760

in the world different how do we how do

647

00:22:33,350 --> 00:22:31,590

whatever evidence we find and it seems

648

00:22:35,909 --> 00:22:33,360

to me that that

649

00:22:38,149 --> 00:22:35,919

today 2022. i don't even think there's a

650

00:22:39,750 --> 00:22:38,159

unified response at this panel no i mean

651
00:22:42,470 --> 00:22:39,760
yeah i mean definitely you can i mean i

652
00:22:44,710 --> 00:22:42,480
was going to say that today to 2022 but

653
00:22:46,710 --> 00:22:44,720
any time i mean i think that human

654
00:22:48,310 --> 00:22:46,720
humans are varied and i mean i mean like

655
00:22:49,590 --> 00:22:48,320
we're evolutionarily evolved to have

656
00:22:51,430 --> 00:22:49,600
different perceptions to a certain

657
00:22:54,630 --> 00:22:51,440
extent right i mean there's overlap but

658
00:22:56,149 --> 00:22:54,640
there's these differences as well so um

659
00:22:57,669 --> 00:22:56,159
first of all i'm not sure it would unify

660
00:23:00,310 --> 00:22:57,679
us right um

661
00:23:01,510 --> 00:23:00,320
and if anything right i i remember i was

662
00:23:02,870 --> 00:23:01,520
talking to someone here at georgia tech

663
00:23:05,029 --> 00:23:02,880

and i said do you think we're gonna find

664

00:23:07,190 --> 00:23:05,039

alien life soon and he was like yeah

665

00:23:09,510 --> 00:23:07,200

five to ten years in the thermal vents

666

00:23:12,149 --> 00:23:09,520

in you know one of like maybe jupiter's

667

00:23:14,310 --> 00:23:12,159

or saturn satellites and then he got to

668

00:23:15,830 --> 00:23:14,320

just dreamy and kind of yet evil look on

669

00:23:17,909 --> 00:23:15,840

his face inside and it's going to mess

670

00:23:20,310 --> 00:23:17,919

up everywhere

671

00:23:22,230 --> 00:23:20,320

that i think is part of where right like

672

00:23:24,149 --> 00:23:22,240

you're like oh is this going to shift

673

00:23:26,310 --> 00:23:24,159

our representations and it's like only

674

00:23:28,470 --> 00:23:26,320

if it shifts our minds right i think a

675

00:23:30,549 --> 00:23:28,480

lot of people especially those of us um

676
00:23:32,390 --> 00:23:30,559
who are conditioned on movies until that

677
00:23:33,990 --> 00:23:32,400
alien comes down looks you in the eye

678
00:23:35,909 --> 00:23:34,000
and shoots first and asks questions

679
00:23:38,870 --> 00:23:35,919
later you're not going to recognize it

680
00:23:40,710 --> 00:23:38,880
right um but there's been like alternate

681
00:23:43,190 --> 00:23:40,720
sets of science fiction stories that do

682
00:23:45,430 --> 00:23:43,200
imagine truly other aliens right not

683
00:23:46,870 --> 00:23:45,440
just a racial or gendered other but like

684
00:23:51,029 --> 00:23:46,880
there's been stories since the beginning

685
00:23:52,390 --> 00:23:51,039
about like gas giant aliens or um

686
00:23:53,909 --> 00:23:52,400
i'm trying to think of some very

687
00:23:55,669 --> 00:23:53,919
different ones like cloud giants

688
00:23:56,710 --> 00:23:55,679

electrical beings all sorts of things

689

00:23:58,950 --> 00:23:56,720

that would be very different than

690

00:24:00,950 --> 00:23:58,960

ascension planets those have been hugely

691

00:24:04,630 --> 00:24:00,960

popular especially since the gaia theory

692

00:24:06,310 --> 00:24:04,640

right in the 60s um so my favorite is

693

00:24:08,310 --> 00:24:06,320

sherry tepper's grass where it's a

694

00:24:10,549 --> 00:24:08,320

planet full of sentient grass i mean

695

00:24:12,710 --> 00:24:10,559

that's amazing right and do you know

696

00:24:14,789 --> 00:24:12,720

nick woods lasagna this is great it's

697

00:24:16,390 --> 00:24:14,799

about africans going to another planet

698

00:24:17,669 --> 00:24:16,400

and the planet is sentient it's trying

699

00:24:18,390 --> 00:24:17,679

to talk to them but it can only talk to

700

00:24:20,710 --> 00:24:18,400

them

701
00:24:22,549 --> 00:24:20,720
by by triggering like uh physical

702
00:24:23,909 --> 00:24:22,559
uneasiness in them and an illness so

703
00:24:25,830 --> 00:24:23,919
they think that they're sick and going

704
00:24:27,830 --> 00:24:25,840
crazy at first and then they realize the

705
00:24:29,350 --> 00:24:27,840
plan is trying to talk to them and

706
00:24:30,789 --> 00:24:29,360
and and and this is enough of a shift

707
00:24:31,990 --> 00:24:30,799
that they're then able to sort of

708
00:24:32,950 --> 00:24:32,000
coexist and go out and talk with the

709
00:24:34,789 --> 00:24:32,960
plant but they never figure out what

710
00:24:36,149 --> 00:24:34,799
they're saying to it solaris talk about

711
00:24:37,990 --> 00:24:36,159
a planet that you never know what you're

712
00:24:39,909 --> 00:24:38,000
taught was talking about right

713
00:24:42,630 --> 00:24:39,919

so we i think we do already have this

714

00:24:44,630 --> 00:24:42,640

tradition of thinking of sort of othered

715

00:24:46,710 --> 00:24:44,640

kinds of beings but

716

00:24:48,149 --> 00:24:46,720

um how and when that's going to affect i

717

00:24:50,310 --> 00:24:48,159

don't know i i just i don't think we're

718

00:24:51,990 --> 00:24:50,320

going to find consensus unless it shoots

719

00:24:53,669 --> 00:24:52,000

us no no i think that's right mars

720

00:24:54,789 --> 00:24:53,679

attacks you know i just want to address

721

00:24:56,070 --> 00:24:54,799

one thing

722

00:24:57,510 --> 00:24:56,080

already i think and you brought this up

723

00:24:59,350 --> 00:24:57,520

earlier in your kind of history of

724

00:25:00,630 --> 00:24:59,360

science fiction is that and that's what

725

00:25:02,710 --> 00:25:00,640

the viking missions were doing it's like

726

00:25:04,789 --> 00:25:02,720

we tend to anthropomorphize our like

727

00:25:06,390 --> 00:25:04,799

search for the for the world and so even

728

00:25:07,990 --> 00:25:06,400

if we recognize otherness in these like

729

00:25:09,350 --> 00:25:08,000

like the sentient water and solaris for

730

00:25:11,510 --> 00:25:09,360

instance then stanislaw is brilliant

731

00:25:13,269 --> 00:25:11,520

like that was great but yet we still

732

00:25:14,390 --> 00:25:13,279

imbue something like sentience when

733

00:25:15,350 --> 00:25:14,400

we're talking about life and it's not

734

00:25:17,590 --> 00:25:15,360

clear to me that we're going to find

735

00:25:19,190 --> 00:25:17,600

sentient life first like so i think the

736

00:25:21,190 --> 00:25:19,200

thing that we find which is utterly

737

00:25:22,870 --> 00:25:21,200

other other other we have to strip as

738

00:25:24,470 --> 00:25:22,880

much of ourselves out of it in order to

739

00:25:25,669 --> 00:25:24,480

recognize it and i think that yeah i'm

740

00:25:27,510 --> 00:25:25,679

not saying it's going to be this grand

741

00:25:28,630 --> 00:25:27,520

galvanizing event i think that like

742

00:25:30,230 --> 00:25:28,640

there are i mean you can think about

743

00:25:31,510 --> 00:25:30,240

when heliocentrism was proven and then

744

00:25:33,510 --> 00:25:31,520

like we went to war with each other like

745

00:25:35,110 --> 00:25:33,520

this could be like a huge catastrophe

746

00:25:36,950 --> 00:25:35,120

i'm optimistic but i have to like

747

00:25:38,310 --> 00:25:36,960

prepare for the but even still it's like

748

00:25:39,590 --> 00:25:38,320

even when we try to be as agnostic at

749

00:25:40,630 --> 00:25:39,600

our perspective we can't help but see

750

00:25:43,590 --> 00:25:40,640

ourselves in everything we're looking

751
00:25:45,669 --> 00:25:43,600
for and it's problematic it's true

752
00:25:46,789 --> 00:25:45,679
so just to add on to this topic of how

753
00:25:51,029 --> 00:25:46,799
different

754
00:25:52,950 --> 00:25:51,039
would deal with an alien threat i'm

755
00:25:54,950 --> 00:25:52,960
reminded of derek bell space traders

756
00:25:56,390 --> 00:25:54,960
right which is so u.s centric right they

757
00:25:58,630 --> 00:25:56,400
sent the entire african-american

758
00:26:01,830 --> 00:25:58,640
population to space in return for these

759
00:26:04,470 --> 00:26:01,840
aliens promises of unlimited uh material

760
00:26:05,590 --> 00:26:04,480
wealth cleaning up our uh climate issues

761
00:26:07,590 --> 00:26:05,600
and there was something else i can't

762
00:26:09,110 --> 00:26:07,600
remember right and that was the bargain

763
00:26:10,789 --> 00:26:09,120

that the white folk in the united states

764

00:26:12,310 --> 00:26:10,799

were like well we're just gonna have to

765

00:26:14,470 --> 00:26:12,320

let y'all go see y'all later have a good

766

00:26:17,029 --> 00:26:14,480

trip right but i always thought about it

767

00:26:19,110 --> 00:26:17,039

as there's another continent

768

00:26:21,430 --> 00:26:19,120

full of black people what if the aliens

769

00:26:23,190 --> 00:26:21,440

had gone to

770

00:26:24,710 --> 00:26:23,200

first right

771

00:26:26,950 --> 00:26:24,720

and how would that change things and so

772

00:26:28,549 --> 00:26:26,960

my understanding of other and alien

773

00:26:29,909 --> 00:26:28,559

largely depends on the context in which

774

00:26:32,230 --> 00:26:29,919

you understand the alienness to

775

00:26:34,310 --> 00:26:32,240

originate from right and so

776

00:26:36,149 --> 00:26:34,320

uh to me the expanse the recent tb

777

00:26:37,590 --> 00:26:36,159

series is a really good example even

778

00:26:39,830 --> 00:26:37,600

though they abandoned it towards the end

779

00:26:41,590 --> 00:26:39,840

of the last season right but that blue

780

00:26:43,590 --> 00:26:41,600

goo that was taking over people's bodies

781

00:26:45,590 --> 00:26:43,600

and creating hyper space jump portals

782

00:26:47,190 --> 00:26:45,600

whatever that was truly alien to them

783

00:26:49,590 --> 00:26:47,200

the entire time and yet they managed to

784

00:26:51,669 --> 00:26:49,600

overlay human political motives on top

785

00:26:54,549 --> 00:26:51,679

of it right and i see that no matter

786

00:26:56,390 --> 00:26:54,559

what type of um sentience if that could

787

00:26:58,310 --> 00:26:56,400

be said that will happen we will still

788

00:26:59,830 --> 00:26:58,320

overlay our politics on top of it which

789

00:27:01,669 --> 00:26:59,840

is a problem for me because i'm usually

790

00:27:03,029 --> 00:27:01,679

at the back end of that line

791

00:27:03,830 --> 00:27:03,039

i'm sorry

792

00:27:06,870 --> 00:27:03,840

i mean

793

00:27:08,070 --> 00:27:06,880

i almost feel like you're describing

794

00:27:09,909 --> 00:27:08,080

the limits of

795

00:27:12,070 --> 00:27:09,919

the great creative community's

796

00:27:13,990 --> 00:27:12,080

imagination and its ability to imagine

797

00:27:15,510 --> 00:27:14,000

what that might look like right so if if

798

00:27:18,549 --> 00:27:15,520

you've got the use but then you're gonna

799

00:27:21,269 --> 00:27:18,559

still do the overlay i'm sorry and then

800

00:27:22,950 --> 00:27:21,279

you know that feels like

801
00:27:25,110 --> 00:27:22,960
we're not

802
00:27:26,470 --> 00:27:25,120
a failure of imagination to think about

803
00:27:28,630 --> 00:27:26,480
outside of the box and what that might

804
00:27:30,389 --> 00:27:28,640
actually mean and i i know you want to

805
00:27:31,990 --> 00:27:30,399
say something i just want to jump in on

806
00:27:34,230 --> 00:27:32,000
that though one of the

807
00:27:36,549 --> 00:27:34,240
philosophies i follow as i write is this

808
00:27:39,110 --> 00:27:36,559
uh philosophy called afro-pessimism and

809
00:27:41,269 --> 00:27:39,120
afro-pessimism moves from this idea

810
00:27:43,430 --> 00:27:41,279
called anti-blackness which states that

811
00:27:46,549 --> 00:27:43,440
the black is incommensurable with

812
00:27:48,870 --> 00:27:46,559
western civil society right not not that

813
00:27:51,190 --> 00:27:48,880

it can be seen or can be heard but

814

00:27:53,669 --> 00:27:51,200

anything it says is unintelligible right

815

00:27:55,350 --> 00:27:53,679

and to me that's really uh a powerful

816

00:27:56,870 --> 00:27:55,360

formulation to understand what would

817

00:27:59,029 --> 00:27:56,880

happen if we did encounter an alien

818

00:28:00,710 --> 00:27:59,039

space right if you're if they're so

819

00:28:02,950 --> 00:28:00,720

imagine if their imaginations are so

820

00:28:04,950 --> 00:28:02,960

strong that they can completely wipe out

821

00:28:06,870 --> 00:28:04,960

an entire two-thirds of the planet to

822

00:28:08,230 --> 00:28:06,880

say okay we don't see you we don't hear

823

00:28:10,070 --> 00:28:08,240

you you don't have any value you can

824

00:28:12,149 --> 00:28:10,080

never create anything of value what will

825

00:28:13,990 --> 00:28:12,159

we possibly do with something that we

826

00:28:14,830 --> 00:28:14,000

basically can't even build that ground

827

00:28:16,549 --> 00:28:14,840

on

828

00:28:17,669 --> 00:28:16,559

sorry

829

00:28:19,669 --> 00:28:17,679

i don't think i have anything to add to

830

00:28:21,510 --> 00:28:19,679

that oh wait i do actually have any of

831

00:28:24,389 --> 00:28:21,520

you read tade thompson's rosewater

832

00:28:25,909 --> 00:28:24,399

trilogy oh yeah because this i mean

833

00:28:27,990 --> 00:28:25,919

first of all it's literally it tate

834

00:28:29,430 --> 00:28:28,000

thompson is a nigerian author living in

835

00:28:30,950 --> 00:28:29,440

great britain right now and it's a

836

00:28:33,430 --> 00:28:30,960

marvelous story and it

837

00:28:35,190 --> 00:28:33,440

the aliens did land in in nigeria

838

00:28:37,029 --> 00:28:35,200

instead of actually they go to london

839

00:28:39,029 --> 00:28:37,039

and it's it's stupid and it sucks and

840

00:28:40,470 --> 00:28:39,039

then it doesn't work out and they uh and

841

00:28:42,950 --> 00:28:40,480

then they're like okay and so they end

842

00:28:44,710 --> 00:28:42,960

up going to africa but nanadi okorafor's

843

00:28:46,789 --> 00:28:44,720

lagoon is also about that and we're

844

00:28:48,710 --> 00:28:46,799

increasingly seeing that as authors from

845

00:28:51,110 --> 00:28:48,720

other countries imagining what it would

846

00:28:52,870 --> 00:28:51,120

be like if aliens landed on their turf

847

00:28:54,470 --> 00:28:52,880

right instead of on the united states as

848

00:28:56,230 --> 00:28:54,480

turf and often in these stories the

849

00:28:58,710 --> 00:28:56,240

united states is really marginalized in

850

00:29:00,310 --> 00:28:58,720

a lot of other ways as well um so that's

851

00:29:03,430 --> 00:29:00,320

interesting and maybe that's a place to

852

00:29:04,230 --> 00:29:03,440

look for other kinds of stories and

853

00:29:05,430 --> 00:29:04,240

uh

854

00:29:07,430 --> 00:29:05,440

well you're still not going to get out

855

00:29:09,029 --> 00:29:07,440

of the sentience thing it's always about

856

00:29:10,710 --> 00:29:09,039

sentences so what

857

00:29:13,190 --> 00:29:10,720

as someone who's working in this space i

858

00:29:15,830 --> 00:29:13,200

mean how do i prepare an audience how do

859

00:29:18,070 --> 00:29:15,840

i talk to an audience to broaden

860

00:29:20,789 --> 00:29:18,080

an audience's sense of what this might

861

00:29:22,870 --> 00:29:20,799

look like right how do

862

00:29:25,669 --> 00:29:22,880

stanley g wine bombs a martian odyssey

863

00:29:27,909 --> 00:29:25,679

from 1934 which has it's really good

864

00:29:29,669 --> 00:29:27,919

it's one of the first stories to imagine

865

00:29:31,830 --> 00:29:29,679

genuinely alien aliens and they never

866

00:29:33,990 --> 00:29:31,840

figure them out they're silicone-based

867

00:29:35,669 --> 00:29:34,000

and the one alien is telling the humans

868

00:29:36,870 --> 00:29:35,679

and he says he's looks at the humans he

869

00:29:38,230 --> 00:29:36,880

says two plus two equals four and he

870

00:29:39,590 --> 00:29:38,240

looks at himself and says he's a bird

871

00:29:41,029 --> 00:29:39,600

and he says two plus two equals four and

872

00:29:43,430 --> 00:29:41,039

then he points to them he says two plus

873

00:29:44,710 --> 00:29:43,440

two equals nine and they never figure

874

00:29:46,549 --> 00:29:44,720

out what's up with these silicon they're

875

00:29:48,710 --> 00:29:46,559

just these little pyramids they travel

876

00:29:50,470 --> 00:29:48,720

across mars they make more pyramids no

877

00:29:52,630 --> 00:29:50,480

one knows why they don't die they don't

878

00:29:54,789 --> 00:29:52,640

do anything they just hang out but

879

00:29:56,630 --> 00:29:54,799

they're alive they might have a purpose

880

00:29:57,750 --> 00:29:56,640

no one knows

881

00:29:58,870 --> 00:29:57,760

i'm going to try to address tony's

882

00:29:59,830 --> 00:29:58,880

question

883

00:30:01,029 --> 00:29:59,840

um

884

00:30:02,630 --> 00:30:01,039

i wonder and i think a lot of us

885

00:30:03,909 --> 00:30:02,640

experience this with with all the kind

886

00:30:06,149 --> 00:30:03,919

of like

887

00:30:07,909 --> 00:30:06,159

combative information strange data like

888

00:30:09,190 --> 00:30:07,919

deflections and uncertainty and covet

889

00:30:11,110 --> 00:30:09,200

like how do we behave what do we do we

890

00:30:13,029 --> 00:30:11,120

want authority etc and i find that quite

891

00:30:14,149 --> 00:30:13,039

often this otherness this sort of like

892

00:30:15,909 --> 00:30:14,159

um

893

00:30:17,430 --> 00:30:15,919

the unpeaceable element of us that

894

00:30:19,350 --> 00:30:17,440

considers that we might like not get

895

00:30:21,430 --> 00:30:19,360

along with whatever we find is obviously

896

00:30:24,149 --> 00:30:21,440

like a reflection of fear and

897

00:30:33,590 --> 00:30:24,159

i think that there comes

898

00:30:36,870 --> 00:30:35,750

crystal level when we find aliens so i

899

00:30:37,909 --> 00:30:36,880

think one way that you could prepare

900

00:30:39,029 --> 00:30:37,919

your audience and i think it would be

901
00:30:40,870 --> 00:30:39,039
excellent for science and i think it

902
00:30:42,549 --> 00:30:40,880
would be excellent for artists is to

903
00:30:44,149 --> 00:30:42,559
figure out a way to make the general

904
00:30:46,549 --> 00:30:44,159
public a little more comfortable with

905
00:30:47,990 --> 00:30:46,559
uncertainty i don't know how to do that

906
00:30:49,190 --> 00:30:48,000
but like i know a lot of people who are

907
00:30:50,950 --> 00:30:49,200
trying to work on that i don't know but

908
00:30:52,389 --> 00:30:50,960
eventually like you know i'm not saying

909
00:30:54,470 --> 00:30:52,399
we can imagine a formal method for doing

910
00:30:56,070 --> 00:30:54,480
so but if we could get used to

911
00:30:57,669 --> 00:30:56,080
comfortably seating in a space of

912
00:30:59,430 --> 00:30:57,679
uncertainty that doesn't demonstrate or

913
00:31:01,830 --> 00:30:59,440

like you know recoil or represent itself

914

00:31:03,990 --> 00:31:01,840

in some sort of fearful reaction they're

915

00:31:06,070 --> 00:31:04,000

capable of trying to reconcile such a

916

00:31:08,310 --> 00:31:06,080

discovery or any other type of strange

917

00:31:10,549 --> 00:31:08,320

new change to the world we need to add

918

00:31:12,950 --> 00:31:10,559

meditative practices into science right

919

00:31:15,509 --> 00:31:12,960

or or just us separate uncertainty from

920

00:31:16,630 --> 00:31:15,519

precarity right yes in many cases if you

921

00:31:17,990 --> 00:31:16,640

don't know where your next meal is

922

00:31:19,669 --> 00:31:18,000

coming from you're going to be uncertain

923

00:31:21,269 --> 00:31:19,679

about possibilities for doing something

924

00:31:23,509 --> 00:31:21,279

dramatically different from those things

925

00:31:24,630 --> 00:31:23,519

that provide subsistence right and so

926
00:31:26,230 --> 00:31:24,640
that's always going to be an interesting

927
00:31:27,509 --> 00:31:26,240
problem to me yeah and it seems that

928
00:31:29,190 --> 00:31:27,519
like something like invention and

929
00:31:31,029 --> 00:31:29,200
innovation is both a consequence of a

930
00:31:33,190 --> 00:31:31,039
limit and the consequence of total like

931
00:31:34,710 --> 00:31:33,200
richness so like if you have you know if

932
00:31:36,230 --> 00:31:34,720
you have your next meal then you have

933
00:31:38,070 --> 00:31:36,240
the space to sort of be creative and

934
00:31:39,909 --> 00:31:38,080
innovative but if you don't that limit

935
00:31:41,509 --> 00:31:39,919
also puts you in a perspective to have

936
00:31:42,950 --> 00:31:41,519
to invent yourself out of that problem

937
00:31:45,909 --> 00:31:42,960
yeah i feel like we're edging towards

938
00:31:49,190 --> 00:31:45,919

elon musk as a commentary right now i'm

939

00:31:49,200 --> 00:31:52,630

but the root can take us there

940

00:31:52,640 --> 00:31:55,590

that's our next question

941

00:31:59,350 --> 00:31:57,430

i mean in this on this like theme of

942

00:32:01,190 --> 00:31:59,360

uncertainty you know i wonder

943

00:32:03,190 --> 00:32:01,200

how we feel comfortable reporting

944

00:32:04,870 --> 00:32:03,200

something like the finding of an alien

945

00:32:06,149 --> 00:32:04,880

species across the various audiences

946

00:32:08,389 --> 00:32:06,159

that we you know engage with or

947

00:32:10,149 --> 00:32:08,399

represent obviously you know if you get

948

00:32:11,430 --> 00:32:10,159

a paper from a scientist or an

949

00:32:13,269 --> 00:32:11,440

astrobiologist that feels like they

950

00:32:15,190 --> 00:32:13,279

found an alien it will come with a lot

951
00:32:16,630 --> 00:32:15,200
of sort of like confidence intervals and

952
00:32:18,710 --> 00:32:16,640
you know i say this is sufficient

953
00:32:20,470 --> 00:32:18,720
evidence eighty percent maybe that this

954
00:32:22,710 --> 00:32:20,480
particular thing might be the product of

955
00:32:24,549 --> 00:32:22,720
life etc so there's not it's not hedging

956
00:32:26,149 --> 00:32:24,559
necessarily but it's an attempt to be as

957
00:32:28,310 --> 00:32:26,159
extremely actually

958
00:32:30,310 --> 00:32:28,320
but that thing changes as it kind of

959
00:32:31,430 --> 00:32:30,320
mutates through the sort of media chain

960
00:32:32,870 --> 00:32:31,440
and i wonder what y'all think is

961
00:32:34,070 --> 00:32:32,880
effective enough to say there's life in

962
00:32:36,630 --> 00:32:34,080
the universe

963
00:32:39,830 --> 00:32:36,640

well so honestly we're hedging on our

964

00:32:42,630 --> 00:32:39,840

show all the time and but um at the

965

00:32:45,750 --> 00:32:42,640

moment that we feel as

966

00:32:47,190 --> 00:32:45,760

as a show team as a team of experts that

967

00:32:48,389 --> 00:32:47,200

we can

968

00:32:50,149 --> 00:32:48,399

make a call

969

00:32:51,990 --> 00:32:50,159

we do right

970

00:32:54,549 --> 00:32:52,000

but all i can tell you is that the

971

00:32:56,950 --> 00:32:54,559

audience that watches our show and a lot

972

00:32:58,470 --> 00:32:56,960

of the content in the space

973

00:33:02,230 --> 00:32:58,480

they're believers

974

00:33:04,870 --> 00:33:02,240

um and and at the moment that that we

975

00:33:07,590 --> 00:33:04,880

signal to them or they signal to us

976

00:33:09,669 --> 00:33:07,600

right it's likely to come the other way

977

00:33:11,669 --> 00:33:09,679

um that they've got a high degree of

978

00:33:13,669 --> 00:33:11,679

confidence in in

979

00:33:16,070 --> 00:33:13,679

in their belief that what they're seeing

980

00:33:18,149 --> 00:33:16,080

is the other is the alien

981

00:33:21,269 --> 00:33:18,159

uh our audience

982

00:33:23,190 --> 00:33:21,279

um is going to drive this for us

983

00:33:26,230 --> 00:33:23,200

and they're gonna push us

984

00:33:27,509 --> 00:33:26,240

um and we name the show the proof is out

985

00:33:29,509 --> 00:33:27,519

there for a reason

986

00:33:30,470 --> 00:33:29,519

and so it seems like your criterion is a

987

00:33:33,029 --> 00:33:30,480

sort of

988

00:33:35,509 --> 00:33:33,039

demonstrable element of the faith of

989

00:33:37,750 --> 00:33:35,519

this audience but but what i but

990

00:33:39,830 --> 00:33:37,760

we're going to and i'm going to push for

991

00:33:42,389 --> 00:33:39,840

this and and i don't have to push hard

992

00:33:44,950 --> 00:33:42,399

for this but i'm going to to push for as

993

00:33:46,549 --> 00:33:44,960

we do with oliver

994

00:33:48,230 --> 00:33:46,559

our discussions about the the videos

995

00:33:50,710 --> 00:33:48,240

that we get is that we

996

00:33:53,350 --> 00:33:50,720

we want science

997

00:33:56,070 --> 00:33:53,360

to weigh in on this

998

00:33:57,350 --> 00:33:56,080

we've got two yeah yeah and and that's

999

00:33:59,110 --> 00:33:57,360

part of the reason why i'm happy to be

1000

00:34:00,789 --> 00:33:59,120

here because i won't i want to engage

1001
00:34:02,549 --> 00:34:00,799
this community more than we have to this

1002
00:34:04,149 --> 00:34:02,559
point even i mean we've got scientists

1003
00:34:06,710 --> 00:34:04,159
on the show but i i want to know what

1004
00:34:09,829 --> 00:34:06,720
this room feels and what it thinks

1005
00:34:12,389 --> 00:34:09,839
about how we tell these stories um you

1006
00:34:14,470 --> 00:34:12,399
know when a half hour show that's 23

1007
00:34:16,230 --> 00:34:14,480
minutes with seven minutes of amazon

1008
00:34:17,990 --> 00:34:16,240
commercials and so andre what about

1009
00:34:19,909 --> 00:34:18,000
cyber culture how do we like how does

1010
00:34:23,430 --> 00:34:19,919
the cyber version of our lives kind of

1011
00:34:26,069 --> 00:34:23,440
it affect the way that this

1012
00:34:27,909 --> 00:34:26,079
information gets disseminated and

1013
00:34:29,829 --> 00:34:27,919

absorbed and transformed

1014

00:34:32,310 --> 00:34:29,839

so one of the arguments i made about a

1015

00:34:34,069 --> 00:34:32,320

decade ago was that twitter in

1016

00:34:37,030 --> 00:34:34,079

particular but the internet provides a

1017

00:34:38,550 --> 00:34:37,040

space for ritual catharsis right

1018

00:34:51,270 --> 00:34:38,560

and i said that about twitter because

1019

00:34:57,030 --> 00:34:54,230

or listen to one another encourage the

1020

00:34:58,630 --> 00:34:57,040

the publication the authoring of things

1021

00:35:00,470 --> 00:34:58,640

that were guaranteed to get engagement

1022

00:35:02,150 --> 00:35:00,480

we see the worst effects of that now

1023

00:35:04,230 --> 00:35:02,160

right uh in part because the companies

1024

00:35:06,550 --> 00:35:04,240

refuse to engage in content moderation

1025

00:35:07,910 --> 00:35:06,560

that's kind of way out the way right um

1026

00:35:09,109 --> 00:35:07,920

the thing i do want to say though is

1027

00:35:11,190 --> 00:35:09,119

that for

1028

00:35:13,190 --> 00:35:11,200

cyberspace we're constantly asked by

1029

00:35:15,349 --> 00:35:13,200

marketers to reimagine ourselves not

1030

00:35:17,670 --> 00:35:15,359

even aliens right to reimagine ourselves

1031

00:35:20,310 --> 00:35:17,680

as avatars of productivity of avatars of

1032

00:35:21,750 --> 00:35:20,320

a certain beauty standard right uh

1033

00:35:23,670 --> 00:35:21,760

conversation before we get really

1034

00:35:25,349 --> 00:35:23,680

attained right because we're always

1035

00:35:27,510 --> 00:35:25,359

pushing that chase right and so to me

1036

00:35:29,510 --> 00:35:27,520

it's it's an interesting question right

1037

00:35:31,589 --> 00:35:29,520

because i would argue that we in many

1038

00:35:33,750 --> 00:35:31,599

ways we have alien cultures here on

1039

00:35:36,630 --> 00:35:33,760

earth that have yet to be interrogated

1040

00:35:39,190 --> 00:35:36,640

or understood right or if they are

1041

00:35:41,109 --> 00:35:39,200

approached and they are set up in such a

1042

00:35:42,950 --> 00:35:41,119

way that they will forever be alien to

1043

00:35:45,670 --> 00:35:42,960

us and i'm thinking specifically of our

1044

00:35:47,829 --> 00:35:45,680

last 20 so 20 or so years since 9 11 and

1045

00:35:49,990 --> 00:35:47,839

the way that islam has been re

1046

00:35:51,349 --> 00:35:50,000

reconstructed as this completely foreign

1047

00:35:54,069 --> 00:35:51,359

faith even though it's part of the

1048

00:35:55,990 --> 00:35:54,079

judeo-christian tradition right uh and

1049

00:35:58,069 --> 00:35:56,000

so we've done lots of things to make

1050

00:35:59,990 --> 00:35:58,079

those folks seem inscrutable and

1051
00:36:02,230 --> 00:36:00,000
uncommunicative and incommensurable

1052
00:36:03,910 --> 00:36:02,240
right and so yeah the internet what the

1053
00:36:05,270 --> 00:36:03,920
internet does offer because i don't want

1054
00:36:07,510 --> 00:36:05,280
to just talk about the positives though

1055
00:36:09,349 --> 00:36:07,520
the internet does offer possibilities

1056
00:36:11,270 --> 00:36:09,359
connect across space and time

1057
00:36:12,870 --> 00:36:11,280
super valuable right in part because

1058
00:36:13,990 --> 00:36:12,880
it's really expensive to buy a home now

1059
00:36:15,510 --> 00:36:14,000
and so you're not necessarily going to

1060
00:36:17,829 --> 00:36:15,520
be moving like you used to move and then

1061
00:36:20,150 --> 00:36:17,839
like 20 or 30 10 years ago in atlanta

1062
00:36:21,510 --> 00:36:20,160
right as quickly as possible but now you

1063
00:36:24,310 --> 00:36:21,520

have this way where you can keep up with

1064

00:36:26,230 --> 00:36:24,320

people or block people right that you no

1065

00:36:28,310 --> 00:36:26,240

longer want to talk to right and i think

1066

00:36:29,910 --> 00:36:28,320

that possibility for communication says

1067

00:36:31,829 --> 00:36:29,920

a lot about how we would understand

1068

00:36:34,069 --> 00:36:31,839

ourselves given

1069

00:36:35,589 --> 00:36:34,079

a lack of uncertainty on how how well we

1070

00:36:37,270 --> 00:36:35,599

can communicate with one another right

1071

00:36:39,670 --> 00:36:37,280

i'm constantly struck by the inventive

1072

00:36:42,069 --> 00:36:39,680

ways that teenagers and minority groups

1073

00:36:43,670 --> 00:36:42,079

come up to transform the really dry

1074

00:36:45,430 --> 00:36:43,680

communication of that the internet

1075

00:36:47,589 --> 00:36:45,440

offers right so i don't know how many of

1076

00:36:50,550 --> 00:36:47,599

you used bitmoji you look like a bitmoji

1077

00:36:52,230 --> 00:36:50,560

kind of audience right or emoji right or

1078

00:36:54,950 --> 00:36:52,240

even um

1079

00:36:57,030 --> 00:36:54,960

different gestures uh uh because i come

1080

00:36:58,870 --> 00:36:57,040

from computer media computer mediated

1081

00:37:00,790 --> 00:36:58,880

communication one of the early findings

1082

00:37:03,430 --> 00:37:00,800

in the late 90s was that women use more

1083

00:37:05,589 --> 00:37:03,440

punctuation than men do

1084

00:37:07,589 --> 00:37:05,599

and so i argue that we already do things

1085

00:37:09,829 --> 00:37:07,599

to situate ourselves to make ourselves

1086

00:37:11,510 --> 00:37:09,839

visible to other groups that may perhaps

1087

00:37:13,190 --> 00:37:11,520

perceive us as alien but we do those

1088

00:37:14,390 --> 00:37:13,200

more so because they make us feel good

1089

00:37:16,150 --> 00:37:14,400

about ourselves does that make sense and

1090

00:37:17,750 --> 00:37:16,160

so the internet is one of those spaces i

1091

00:37:20,390 --> 00:37:17,760

think that serves as a vehicle for

1092

00:37:22,550 --> 00:37:20,400

reaffirming humanity and really good and

1093

00:37:24,310 --> 00:37:22,560

bad ways so that's really too much for

1094

00:37:25,270 --> 00:37:24,320

the answer no no i think that's quite

1095

00:37:26,470 --> 00:37:25,280

right

1096

00:37:28,710 --> 00:37:26,480

and then what about like the way that

1097

00:37:30,470 --> 00:37:28,720

art helps us reconcile with these things

1098

00:37:32,150 --> 00:37:30,480

the way that art helps us reconcile

1099

00:37:34,390 --> 00:37:32,160

these things

1100

00:37:36,230 --> 00:37:34,400

oh yeah well right i mean

1101
00:37:37,750 --> 00:37:36,240
certainly science fiction can dramatize

1102
00:37:39,750 --> 00:37:37,760
that although there's a ten there's that

1103
00:37:41,270 --> 00:37:39,760
tension in science fiction because

1104
00:37:43,109 --> 00:37:41,280
science fiction is

1105
00:37:45,270 --> 00:37:43,119
it's grounded in a sort of completest

1106
00:37:47,109 --> 00:37:45,280
and realist narrative like the idea is

1107
00:37:49,030 --> 00:37:47,119
that you go into the story and you're

1108
00:37:50,630 --> 00:37:49,040
estranged from things right you you in

1109
00:37:52,069 --> 00:37:50,640
the best story you're the first sentence

1110
00:37:55,270 --> 00:37:52,079
grabs you and you have no idea where you

1111
00:37:56,790 --> 00:37:55,280
are uh the door de la quest

1112
00:37:58,150 --> 00:37:56,800
you know it's like i know what that is i

1113
00:38:01,430 --> 00:37:58,160

know what the door is i have no idea

1114

00:38:03,829 --> 00:38:01,440

what deliques means and you know um

1115

00:38:05,430 --> 00:38:03,839

but science fiction wants to alleviate

1116

00:38:06,470 --> 00:38:05,440

your estrangement right to return you to

1117

00:38:08,790 --> 00:38:06,480

cognition and give you a full

1118

00:38:10,390 --> 00:38:08,800

explanation and so in some ways i think

1119

00:38:11,589 --> 00:38:10,400

that this is potentially a limit

1120

00:38:13,589 --> 00:38:11,599

especially of science fiction and it's

1121

00:38:15,430 --> 00:38:13,599

more classic formulations is it's always

1122

00:38:16,870 --> 00:38:15,440

about the drive to know everything and

1123

00:38:18,550 --> 00:38:16,880

to understand everything it's this or

1124

00:38:20,150 --> 00:38:18,560

the in the way that sort of classic

1125

00:38:30,310 --> 00:38:20,160

formulations of science were about sort

1126

00:38:30,320 --> 00:38:34,470

between knowledge

1127

00:38:39,030 --> 00:38:36,230

and especially if you're going to the

1128

00:38:41,430 --> 00:38:39,040

movies and you've paid 25 and all you

1129

00:38:42,550 --> 00:38:41,440

want is to be entertained right

1130

00:38:44,790 --> 00:38:42,560

i mean

1131

00:38:46,950 --> 00:38:44,800

yeah there's a reason that people hated

1132

00:38:48,950 --> 00:38:46,960

the end like the third matrix movie

1133

00:38:50,550 --> 00:38:48,960

right because it didn't let you complete

1134

00:38:52,230 --> 00:38:50,560

the i love it too because it doesn't

1135

00:38:54,870 --> 00:38:52,240

complete the narrative like it doesn't

1136

00:38:56,790 --> 00:38:54,880

send neo back out to be superman um and

1137

00:38:58,790 --> 00:38:56,800

that's what's so awesome about it right

1138

00:39:01,270 --> 00:38:58,800

but it's hard and i think that movies

1139

00:39:03,190 --> 00:39:01,280

that do that um and and art in general

1140

00:39:05,589 --> 00:39:03,200

that does that is often seen as

1141

00:39:06,950 --> 00:39:05,599

difficult or challenging or not fun or

1142

00:39:08,230 --> 00:39:06,960

lame or

1143

00:39:09,349 --> 00:39:08,240

yeah go look at every review of the

1144

00:39:11,270 --> 00:39:09,359

matrix three and you'll see what i'm

1145

00:39:12,790 --> 00:39:11,280

talking about here

1146

00:39:14,950 --> 00:39:12,800

well four actually ends things in its

1147

00:39:16,150 --> 00:39:14,960

own way although never mind that's a

1148

00:39:17,670 --> 00:39:16,160

whole paper my grad student's writing

1149

00:39:18,950 --> 00:39:17,680

you don't need it

1150

00:39:21,349 --> 00:39:18,960

so i mean i think that we could continue

1151

00:39:22,310 --> 00:39:21,359

on i i just had to check basically

1152

00:39:23,430 --> 00:39:22,320

the audience there are probably

1153

00:39:25,990 --> 00:39:23,440

questions out there and questions for

1154

00:39:27,510 --> 00:39:26,000

any of our streamers um i'm happy to go

1155

00:39:29,910 --> 00:39:27,520

a little over but yes if anyone has a

1156

00:39:31,829 --> 00:39:29,920

question about this theme or an idea yes

1157

00:39:34,230 --> 00:39:31,839

sir

1158

00:39:35,510 --> 00:39:34,240

very anti-scientific reaction to

1159

00:39:37,910 --> 00:39:35,520

vaccination

1160

00:39:40,230 --> 00:39:37,920

the politician of it

1161

00:39:44,230 --> 00:39:40,240

are you pessimistic optimistic let's say

1162

00:39:46,630 --> 00:39:44,240

five ten years from now europa uh titan

1163

00:39:47,990 --> 00:39:46,640

enceladus something comes back

1164

00:39:49,030 --> 00:39:48,000

what kind of reaction i guess that's

1165

00:39:51,030 --> 00:39:49,040

what i was in part what i was coming

1166

00:39:52,069 --> 00:39:51,040

here for if i may i'd like to start at

1167

00:39:53,829 --> 00:39:52,079

least an answer to that first of all

1168

00:39:55,750 --> 00:39:53,839

those are my top three destinations so

1169

00:39:57,109 --> 00:39:55,760

that's excellent um but i do want to say

1170

00:39:58,310 --> 00:39:57,119

and again i'm like a glass-half-full

1171

00:40:00,710 --> 00:39:58,320

person i actually think that there's

1172

00:40:02,710 --> 00:40:00,720

been a real boon to science trust as a

1173

00:40:04,390 --> 00:40:02,720

result of covet i think that we see a

1174

00:40:06,470 --> 00:40:04,400

sort of

1175

00:40:07,670 --> 00:40:06,480

minority expression very intensely when

1176

00:40:09,670 --> 00:40:07,680

organized and again this goes back to

1177

00:40:12,230 --> 00:40:09,680

the way that we sort of collect um but i

1178

00:40:14,470 --> 00:40:12,240

actually so this is the problem um if we

1179

00:40:15,910 --> 00:40:14,480

and uh if i'm right that i think there

1180

00:40:17,109 --> 00:40:15,920

is maybe more faith in science these

1181

00:40:18,550 --> 00:40:17,119

days given the development of these

1182

00:40:21,190 --> 00:40:18,560

vaccines and their affection or their

1183

00:40:22,470 --> 00:40:21,200

their efficacy um i still think that

1184

00:40:24,950 --> 00:40:22,480

it's going to be hard to convince a

1185

00:40:26,630 --> 00:40:24,960

global lay audience that this crystal

1186

00:40:28,150 --> 00:40:26,640

thing that behaves in this way is life

1187

00:40:29,589 --> 00:40:28,160

enough to count

1188

00:40:31,030 --> 00:40:29,599

so i'm not sure i'm excited for the

1189

00:40:32,870 --> 00:40:31,040

science community and i'm excited for

1190

00:40:34,390 --> 00:40:32,880

the science interested like the kids who

1191

00:40:36,309 --> 00:40:34,400

will see this and then throw themselves

1192

00:40:37,990 --> 00:40:36,319

into astrobiology in the same way that i

1193

00:40:39,589 --> 00:40:38,000

threw myself into biology when we cloned

1194

00:40:43,030 --> 00:40:39,599

a sheep like i don't know what the

1195

00:40:44,710 --> 00:40:43,040

alternative is but um i'm optimistic for

1196

00:40:47,750 --> 00:40:44,720

the science interested but i still think

1197

00:40:49,030 --> 00:40:47,760

it's a huge gap to jump for those who

1198

00:40:50,710 --> 00:40:49,040

aren't initiated in the sciences and

1199

00:40:53,990 --> 00:40:50,720

it's a very hard initiation i don't know

1200

00:40:58,150 --> 00:40:55,589

one of the things the internet did was

1201
00:40:59,670 --> 00:40:58,160
create a culture of experts who were

1202
00:41:01,190 --> 00:40:59,680
emboldened by

1203
00:41:02,950 --> 00:41:01,200
and i would totally lay this at the feet

1204
00:41:05,109 --> 00:41:02,960
of the bush administration that we were

1205
00:41:07,030 --> 00:41:05,119
post-truth right and so one of the

1206
00:41:09,349 --> 00:41:07,040
difficulties i saw for

1207
00:41:12,230 --> 00:41:09,359
um vaccine hesitancy i don't want to

1208
00:41:14,630 --> 00:41:12,240
necessarily call it uh uh anything worse

1209
00:41:16,470 --> 00:41:14,640
than that right was that in many ways we

1210
00:41:18,069 --> 00:41:16,480
had worked so hard to convince people

1211
00:41:20,630 --> 00:41:18,079
that the tools we have are either

1212
00:41:22,710 --> 00:41:20,640
inscrutable or used in the means of of

1213
00:41:24,069 --> 00:41:22,720

taking away resources from people and so

1214

00:41:26,390 --> 00:41:24,079

people don't necessarily want to believe

1215

00:41:28,069 --> 00:41:26,400

in them so like my wife is a nurse right

1216

00:41:29,750 --> 00:41:28,079

she's got nine or ten years experience

1217

00:41:31,990 --> 00:41:29,760

on the job she refused to take the

1218

00:41:34,150 --> 00:41:32,000

vaccine right and i'm like well you're a

1219

00:41:35,750 --> 00:41:34,160

nurse at assisted living you're not an

1220

00:41:37,270 --> 00:41:35,760

epidemiologist and so i got kicked out

1221

00:41:39,030 --> 00:41:37,280

the house for a couple of days right and

1222

00:41:40,870 --> 00:41:39,040

then when she let me back in she

1223

00:41:43,430 --> 00:41:40,880

explained that she just felt the science

1224

00:41:45,670 --> 00:41:43,440

was not it had moved too quickly right

1225

00:41:46,870 --> 00:41:45,680

and i pointed out to her that this is

1226

00:41:48,470 --> 00:41:46,880

something that had been worked on for

1227

00:41:51,349 --> 00:41:48,480

actually 30 years the woman who came up

1228

00:41:53,270 --> 00:41:51,359

with it was deeply uh rejected by the

1229

00:41:54,950 --> 00:41:53,280

scientific establishment right until

1230

00:41:56,710 --> 00:41:54,960

finally recently that's been proven to

1231

00:41:58,390 --> 00:41:56,720

do some work and that did not convince

1232

00:41:59,910 --> 00:41:58,400

her so i think in some ways the internet

1233

00:42:01,990 --> 00:41:59,920

plays into this but there's also a

1234

00:42:04,630 --> 00:42:02,000

larger american tendency i think for

1235

00:42:07,589 --> 00:42:04,640

anti-intellectualism and doubt right

1236

00:42:09,589 --> 00:42:07,599

about about authority right i would call

1237

00:42:11,190 --> 00:42:09,599

it the illuminati strain

1238

00:42:12,150 --> 00:42:11,200

perhaps

1239

00:42:14,390 --> 00:42:12,160

uh

1240

00:42:16,069 --> 00:42:14,400

sonic you know henry ross has no respect

1241

00:42:17,510 --> 00:42:16,079

there's a cultural history of this

1242

00:42:19,109 --> 00:42:17,520

really worth looking at it's a cultural

1243

00:42:21,630 --> 00:42:19,119

history of anti-intellectualism in

1244

00:42:24,390 --> 00:42:21,640

america andrew ross no respect

1245

00:42:26,550 --> 00:42:24,400

anti-intellectualism in america

1246

00:42:28,230 --> 00:42:26,560

um and so this answer's gone

1247

00:42:29,510 --> 00:42:28,240

far too long but i would just so this is

1248

00:42:30,950 --> 00:42:29,520

something that i wanted to say when we

1249

00:42:32,630 --> 00:42:30,960

were talking earlier i think the

1250

00:42:36,150 --> 00:42:32,640

inscrutability of the tools that

1251
00:42:45,750 --> 00:42:36,160
scientists use has led people to doubt

1252
00:42:49,190 --> 00:42:46,550
uh

1253
00:42:50,790 --> 00:42:49,200
islam and science fiction and afro and

1254
00:42:52,069 --> 00:42:50,800
astrobiology because apparently islam

1255
00:42:53,829 --> 00:42:52,079
was one of the first cultures to start

1256
00:42:54,710 --> 00:42:53,839
thinking through astrobiology right

1257
00:42:57,400 --> 00:42:54,720
which is not something you'll

1258
00:43:00,630 --> 00:42:57,410
necessarily hear on

1259
00:43:01,910 --> 00:43:00,640
[Laughter]

1260
00:43:03,349 --> 00:43:01,920
right

1261
00:43:05,030 --> 00:43:03,359
thinking through other cultures and

1262
00:43:07,270 --> 00:43:05,040
their engagement with what they saw as

1263
00:43:08,630 --> 00:43:07,280

the heavens or the possibilities for

1264

00:43:10,390 --> 00:43:08,640

living out there i think gave us

1265

00:43:12,150 --> 00:43:10,400

something that science has taken from us

1266

00:43:14,390 --> 00:43:12,160

right sciences promises certainty but

1267

00:43:16,630 --> 00:43:14,400

the scientists always say 90 confidence

1268

00:43:17,910 --> 00:43:16,640

interval right and it's a term of art

1269

00:43:19,430 --> 00:43:17,920

right but yeah it's also

1270

00:43:21,349 --> 00:43:19,440

counterintuitive and i think honestly

1271

00:43:22,470 --> 00:43:21,359

and i'm like i am i mean i represent a

1272

00:43:24,390 --> 00:43:22,480

science institute i'm not going to talk

1273

00:43:25,910 --> 00:43:24,400

poorly about science i love it um but i

1274

00:43:27,349 --> 00:43:25,920

think that the attempt to express the

1275

00:43:29,349 --> 00:43:27,359

uncertainty of eliminating that black

1276

00:43:30,550 --> 00:43:29,359

boxiness but unfortunately it's like i

1277

00:43:32,390 --> 00:43:30,560

think that there's this trade-off where

1278

00:43:33,349 --> 00:43:32,400

people want authority but they also want

1279

00:43:34,870 --> 00:43:33,359

to know what's happening within the

1280

00:43:36,630 --> 00:43:34,880

black box and if we lift the black box

1281

00:43:38,230 --> 00:43:36,640

up and say well to 80 confidence we

1282

00:43:40,150 --> 00:43:38,240

think this thing will work well if it's

1283

00:43:41,750 --> 00:43:40,160

not 100 then it's at some point

1284

00:43:43,030 --> 00:43:41,760

unreliable and you have to make yourself

1285

00:43:45,030 --> 00:43:43,040

so it's like i don't know i don't know

1286

00:43:46,710 --> 00:43:45,040

what to do but it's like it's you know

1287

00:43:48,550 --> 00:43:46,720

an effort towards transparency i think

1288

00:43:50,069 --> 00:43:48,560

would go a long way and at this point

1289

00:43:51,349 --> 00:43:50,079

transparency for that uncertainty might

1290

00:43:52,470 --> 00:43:51,359

be the solution that i'd propose but i

1291

00:43:54,150 --> 00:43:52,480

don't know we could send you out a

1292

00:43:56,390 --> 00:43:54,160

technical communication training all

1293

00:44:03,750 --> 00:43:58,230

what questions what questions yes more

1294

00:44:06,630 --> 00:44:04,710

all right

1295

00:44:08,150 --> 00:44:06,640

any thoughts on the likelihood could we

1296

00:44:11,990 --> 00:44:08,160

can we get like a poll do we think that

1297

00:44:15,510 --> 00:44:13,430

i think just let's start with aliens and

1298

00:44:17,510 --> 00:44:15,520

let's let's go from there so just aliens

1299

00:44:21,030 --> 00:44:17,520

dumb or not

1300

00:44:24,230 --> 00:44:21,040

all right good majority that way

1301

00:44:25,030 --> 00:44:24,240

well i think the james webb telescope

1302

00:44:26,309 --> 00:44:25,040

may

1303

00:44:28,309 --> 00:44:26,319

find uh

1304

00:44:31,430 --> 00:44:28,319

strong indications of

1305

00:44:32,870 --> 00:44:31,440

life on exoplanets

1306

00:44:35,109 --> 00:44:32,880

oh and i want to say i'm sorry maybe i

1307

00:44:37,750 --> 00:44:35,119

am too talking too much

1308

00:44:40,470 --> 00:44:37,760

um so uh frank drake who works at seti

1309

00:44:41,910 --> 00:44:40,480

he proposed in the 60s that uh you know

1310

00:44:43,990 --> 00:44:41,920

this frank equation that sort of allowed

1311

00:44:46,230 --> 00:44:44,000

you to formally calculate how many

1312

00:44:47,990 --> 00:44:46,240

intelligent communicative technological

1313

00:44:50,230 --> 00:44:48,000

alien civilizations there are of course

1314

00:44:53,109 --> 00:44:50,240

at the time that seemed really crazy and

1315

00:44:55,030 --> 00:44:53,119

one of the components in that in that uh

1316

00:44:56,870 --> 00:44:55,040

equation is the number of exoplanets and

1317

00:44:58,630 --> 00:44:56,880

at the time that he proposed it there

1318

00:45:00,309 --> 00:44:58,640

as of today there are over 5000 because

1319

00:45:01,589 --> 00:45:00,319

our technology allows us to see things

1320

00:45:03,430 --> 00:45:01,599

that we couldn't imagine were possible

1321

00:45:04,710 --> 00:45:03,440

before and so you know i think the james

1322

00:45:05,910 --> 00:45:04,720

webb is an excellent example if we just

1323

00:45:07,910 --> 00:45:05,920

kind of broaden our perspective and

1324

00:45:09,990 --> 00:45:07,920

recognize that we might we life might be

1325

00:45:11,349 --> 00:45:10,000

inventive enough to finally develop the

1326

00:45:12,550 --> 00:45:11,359

technology that allows us to find it

1327

00:45:13,910 --> 00:45:12,560

like we just have to be open-minded to

1328

00:45:15,990 --> 00:45:13,920

the fact that these possibilities are in

1329

00:45:18,069 --> 00:45:16,000

fact possible and so i like that it's

1330

00:45:20,069 --> 00:45:18,079

like everyone laughed at frank drake but

1331

00:45:21,589 --> 00:45:20,079

now we're literally like doing we're

1332

00:45:23,589 --> 00:45:21,599

sending missions out to these exoplanets

1333

00:45:25,030 --> 00:45:23,599

with hope it's a faith i'd like to ask

1334

00:45:26,710 --> 00:45:25,040

the science skeptics why they don't

1335

00:45:28,470 --> 00:45:26,720

think right so we had a ton of fans that

1336

00:45:30,230 --> 00:45:28,480

said they do but for those of you who

1337

00:45:32,150 --> 00:45:30,240

don't think we'll find alien life why is

1338

00:45:36,710 --> 00:45:32,160

that

1339

00:45:40,950 --> 00:45:38,230

this is one hypothesis this is not a

1340

00:45:42,710 --> 00:45:40,960

definition but it seems to me that um

1341

00:45:44,710 --> 00:45:42,720

again i said it's like life makes art

1342

00:45:47,990 --> 00:45:44,720

that's like silly but i think um

1343

00:45:50,150 --> 00:45:48,000

alien life might be um a system capable

1344

00:45:51,829 --> 00:45:50,160

of creating or

1345

00:45:54,230 --> 00:45:51,839

creating sufficiently complex systems

1346

00:45:55,349 --> 00:45:54,240

that couldn't come to fruition randomly

1347

00:45:59,349 --> 00:45:55,359

users

1348

00:46:02,309 --> 00:45:59,359

memory havers and exploiters i got a

1349

00:46:04,069 --> 00:46:02,319

hard no players in 20 years

1350

00:46:08,230 --> 00:46:04,079

20 years

1351

00:46:09,670 --> 00:46:08,240

but i think bacterial single cell life

1352

00:46:11,510 --> 00:46:09,680

oh but to be fair i'm not even talking

1353

00:46:12,550 --> 00:46:11,520

at the complex level of a bacterial cell

1354

00:46:14,470 --> 00:46:12,560

i'm saying like maybe even some

1355

00:46:16,150 --> 00:46:14,480

primordial dna

1356

00:46:17,349 --> 00:46:16,160

so my alien is even simpler than yours

1357

00:46:20,390 --> 00:46:17,359

do you agree that that might be found in

1358

00:46:25,750 --> 00:46:20,400

the next 20 years dna that makes tools

1359

00:46:28,230 --> 00:46:27,030

again

1360

00:46:29,589 --> 00:46:28,240

will there be global consensus

1361

00:46:31,589 --> 00:46:29,599

absolutely not and this is what's so

1362

00:46:35,510 --> 00:46:31,599

fascinating like how do we i don't know

1363

00:46:37,589 --> 00:46:35,520

continue to engage other skeptics

1364

00:46:43,829 --> 00:46:37,599

others who believe

1365

00:46:46,870 --> 00:46:45,990

how agnostic do you want to go

1366

00:46:49,750 --> 00:46:46,880

um

1367

00:46:51,910 --> 00:46:49,760

i heard you came and say about uh

1368

00:46:54,390 --> 00:46:51,920

doing interesting things with stuff but

1369

00:46:56,470 --> 00:46:54,400

i also heard in this panel uh

1370

00:46:58,069 --> 00:46:56,480

physiological changes

1371

00:47:00,230 --> 00:46:58,079

uh how about

1372

00:47:01,510 --> 00:47:00,240

mental changes how about idealism as a

1373

00:47:02,630 --> 00:47:01,520

metaphysics

1374

00:47:05,349 --> 00:47:02,640

so like a

1375

00:47:07,190 --> 00:47:05,359

sort of immaterial emerging phenomenon

1376

00:47:08,870 --> 00:47:07,200

something like that something like that

1377

00:47:10,230 --> 00:47:08,880

i wonder just for my part and this is

1378

00:47:11,990 --> 00:47:10,240

just an opinion it seems to me that

1379

00:47:13,829 --> 00:47:12,000

something like that wouldn't necessarily

1380

00:47:15,030 --> 00:47:13,839

require a material foundation and i

1381

00:47:17,190 --> 00:47:15,040

think that that material foundation

1382

00:47:19,430 --> 00:47:17,200

might be something like a a pre about to

1383

00:47:21,510 --> 00:47:19,440

be lifeness

1384

00:47:22,870 --> 00:47:21,520

so but i think that that might act we

1385

00:47:24,069 --> 00:47:22,880

could call it like an idiosignature or

1386

00:47:26,470 --> 00:47:24,079

something but i think that this sort of

1387

00:47:27,829 --> 00:47:26,480

like phenomenon is something that we

1388

00:47:29,589 --> 00:47:27,839

should be considering if there's a

1389

00:47:31,829 --> 00:47:29,599

possibility for us to formalize a way to

1390

00:47:32,870 --> 00:47:31,839

look for it um because you know as we

1391

00:47:34,870 --> 00:47:32,880

said it's like every time we think of

1392

00:47:37,190 --> 00:47:34,880

life we accidentally imbue consciousness

1393

00:47:38,549 --> 00:47:37,200

or agency or something like that and so

1394

00:47:42,150 --> 00:47:38,559

i wonder if

1395

00:47:43,990 --> 00:47:42,160

as a bio signature elsewhere and then

1396

00:47:45,670 --> 00:47:44,000

kind of like get even lower down and see

1397

00:47:47,829 --> 00:47:45,680

what it might be emerging from if it is

1398

00:47:50,069 --> 00:47:47,839

in fact emergent i might be wrong right

1399

00:47:51,990 --> 00:47:50,079

i i meant i do mean something like

1400

00:47:54,150 --> 00:47:52,000

convergence because it might not be

1401
00:47:56,630 --> 00:47:54,160
emergence at all there's a

1402
00:47:57,750 --> 00:47:56,640
lively debate in consciousness studies

1403
00:47:59,270 --> 00:47:57,760
about

1404
00:48:01,670 --> 00:47:59,280
idealism versus

1405
00:48:02,630 --> 00:48:01,680
materialism

1406
00:48:03,990 --> 00:48:02,640
will you point me to some of that

1407
00:48:06,390 --> 00:48:04,000
literature i'd be curious to read it

1408
00:48:15,430 --> 00:48:06,400
sure thank you

1409
00:48:19,670 --> 00:48:17,270
well here's here's the

1410
00:48:20,950 --> 00:48:19,680
i've said to this panel

1411
00:48:23,990 --> 00:48:20,960
one of the things that i'd like to do

1412
00:48:26,309 --> 00:48:24,000
with the show is as we evolve is i and i

1413
00:48:31,190 --> 00:48:26,319

want to

1414

00:48:33,510 --> 00:48:31,200

the spiritual

1415

00:48:34,790 --> 00:48:33,520

realm the faith

1416

00:48:36,150 --> 00:48:34,800

realm

1417

00:48:38,549 --> 00:48:36,160

and how it

1418

00:48:41,030 --> 00:48:38,559

impacts

1419

00:48:42,309 --> 00:48:41,040

how we talk about everything that we've

1420

00:48:43,829 --> 00:48:42,319

talked about

1421

00:48:45,670 --> 00:48:43,839

this evening

1422

00:48:49,430 --> 00:48:45,680

um

1423

00:48:53,109 --> 00:48:49,440

because i i know that that is going to

1424

00:48:59,510 --> 00:48:56,069

as our show evolves and and the way

1425

00:49:01,430 --> 00:48:59,520

people look at uh what may or may not be

1426

00:49:03,910 --> 00:49:01,440

proof

1427

00:49:06,230 --> 00:49:03,920

you guys first

1428

00:49:09,430 --> 00:49:06,240

and then the panel

1429

00:49:14,710 --> 00:49:11,829

myself

1430

00:49:17,190 --> 00:49:14,720

and so i'm like okay it's all wide open

1431

00:49:18,790 --> 00:49:17,200

there's life here wherever there's water

1432

00:49:21,190 --> 00:49:18,800

there could be life it could be life on

1433

00:49:23,270 --> 00:49:21,200

europa no matter what it is

1434

00:49:24,950 --> 00:49:23,280

uh but my mother was a devout christian

1435

00:49:26,630 --> 00:49:24,960

but even she believed that there could

1436

00:49:29,190 --> 00:49:26,640

be alien life because there's a passage

1437

00:49:31,589 --> 00:49:29,200

in the bible says other sheep

1438

00:49:33,510 --> 00:49:31,599

well if god created us

1439

00:49:36,069 --> 00:49:33,520

how do you know he didn't create stuff

1440

00:49:37,510 --> 00:49:36,079

here there wherever which i don't

1441

00:49:39,910 --> 00:49:37,520

believe in god but that was her

1442

00:49:42,230 --> 00:49:39,920

viewpoint

1443

00:49:43,270 --> 00:49:42,240

see i love this

1444

00:49:45,270 --> 00:49:43,280

yes

1445

00:49:47,030 --> 00:49:45,280

i think unfortunately for the show

1446

00:49:48,950 --> 00:49:47,040

itself it's fighting a losing battle

1447

00:49:50,790 --> 00:49:48,960

right she said it herself we wouldn't

1448

00:49:52,390 --> 00:49:50,800

know alien life unless it came up and

1449

00:49:54,150 --> 00:49:52,400

shot us out of mars attacks and i

1450

00:49:57,349 --> 00:49:54,160

actually believe that's true and i

1451

00:49:59,109 --> 00:49:57,359

believe i 100 agree with caitlyn that

1452

00:50:00,470 --> 00:49:59,119

when we find it

1453

00:50:01,910 --> 00:50:00,480

she didn't say this but i will it's

1454

00:50:03,270 --> 00:50:01,920

going to be a non-event because it's

1455

00:50:04,710 --> 00:50:03,280

going to be something that doesn't look

1456

00:50:06,790 --> 00:50:04,720

like us it's going to be

1457

00:50:09,109 --> 00:50:06,800

dna or whatever it's going to be and

1458

00:50:11,030 --> 00:50:09,119

most of the people probably won't take

1459

00:50:14,309 --> 00:50:11,040

in his life or care about life

1460

00:50:15,670 --> 00:50:14,319

and if you bring in faith that's i mean

1461

00:50:17,430 --> 00:50:15,680

you're gonna have to follow whatever

1462

00:50:19,190 --> 00:50:17,440

your audience wants right because that's

1463

00:50:20,150 --> 00:50:19,200

the business that you're in

1464

00:50:22,309 --> 00:50:20,160

and

1465

00:50:24,470 --> 00:50:22,319

the the rub though is that they're never

1466

00:50:39,109 --> 00:50:24,480

gonna find the spaceship because it's

1467

00:50:42,630 --> 00:50:40,790

and i think that while there is

1468

00:50:45,190 --> 00:50:42,640

intelligent life out there we'll

1469

00:50:47,270 --> 00:50:45,200

probably never know because they'll die

1470

00:50:49,030 --> 00:50:47,280

we'll die we're too far away from each

1471

00:50:51,750 --> 00:50:49,040

other and those bubbles will simply

1472

00:50:59,589 --> 00:50:51,760

never collide

1473

00:51:02,790 --> 00:51:00,790

you could have had hundreds of

1474

00:51:05,430 --> 00:51:02,800

civilizations evolve and die over the

1475

00:51:08,630 --> 00:51:05,440

course of time yeah and we're here for

1476

00:51:10,710 --> 00:51:08,640

a blip those will travel but they may be

1477

00:51:12,549 --> 00:51:10,720

passed by the time that they're evolved

1478

00:51:17,270 --> 00:51:12,559

and you know who knows and just the

1479

00:51:21,430 --> 00:51:18,790

i'm sorry sorry i was gonna say even if

1480

00:51:23,510 --> 00:51:21,440

they are contemporaries

1481

00:51:24,710 --> 00:51:23,520

do they want to be heard i mean that's

1482

00:51:26,150 --> 00:51:24,720

an argument that's another argument

1483

00:51:27,670 --> 00:51:26,160

that's an argument going on in science

1484

00:51:29,109 --> 00:51:27,680

today where you know we've sent these

1485

00:51:31,349 --> 00:51:29,119

messages out now we're starting to

1486

00:51:34,309 --> 00:51:31,359

question whether we should have yeah

1487

00:51:39,349 --> 00:51:35,910

see clark made that point all the way

1488

00:51:40,950 --> 00:51:39,359

back in 2001 right so yeah or in the uh

1489

00:51:42,470 --> 00:51:40,960

the sentinel actually the even earlier

1490

00:51:45,109 --> 00:51:42,480

story that we had basically doxed

1491

00:51:47,109 --> 00:51:45,119

ourselves by doing that

1492

00:51:48,069 --> 00:51:47,119

well what is the what is the thing that

1493

00:51:49,990 --> 00:51:48,079

i read

1494

00:51:51,670 --> 00:51:50,000

last week a week before that nasa is

1495

00:51:53,990 --> 00:51:51,680

sending out

1496

00:51:55,190 --> 00:51:54,000

new pictures or something or oh yeah am

1497

00:51:56,549 --> 00:51:55,200

i the only one who read that no that's

1498

00:51:57,829 --> 00:51:56,559

that's that's from the 70s this is the

1499

00:51:59,510 --> 00:51:57,839

voyager vision it's the voyager this

1500

00:52:02,069 --> 00:51:59,520

isn't the player the joke i guess is

1501
00:52:07,190 --> 00:52:02,079
that like we would send out nudes in our

1502
00:52:10,230 --> 00:52:08,630
well first of all it was the 70s and

1503
00:52:11,910 --> 00:52:10,240
they had just lifted all the porn codes

1504
00:52:13,589 --> 00:52:11,920
right right oh that doesn't exist but

1505
00:52:15,510 --> 00:52:13,599
what's funny especially in this day and

1506
00:52:17,190 --> 00:52:15,520
age right is that we send them a picture

1507
00:52:20,549 --> 00:52:17,200
of a man and a woman as if we expect

1508
00:52:22,549 --> 00:52:20,559
them to be to understand what that means

1509
00:52:24,150 --> 00:52:22,559
yeah it doesn't even really exactly

1510
00:52:26,390 --> 00:52:24,160
entirely map to the way we're

1511
00:52:28,870 --> 00:52:26,400
increasingly thinking about humanity so

1512
00:52:30,790 --> 00:52:28,880
first of all it's right an artifact of

1513
00:52:32,470 --> 00:52:30,800

and that's fine because it was

1514

00:52:34,309 --> 00:52:32,480

but it is funny that even then we would

1515

00:52:36,790 --> 00:52:34,319

have just assumed well of course they'll

1516

00:52:38,309 --> 00:52:36,800

need to know that that we have two sexes

1517

00:52:39,910 --> 00:52:38,319

or whatever like why

1518

00:52:41,670 --> 00:52:39,920

why because it is possible that other

1519

00:52:43,349 --> 00:52:41,680

life might be trisexual it might take

1520

00:52:45,910 --> 00:52:43,359

three genetic strands to make a child it

1521

00:52:47,349 --> 00:52:45,920

might be like a family kind of situation

1522

00:52:49,190 --> 00:52:47,359

right right right but i'm not sure that

1523

00:52:50,470 --> 00:52:49,200

them seeing r2 like i i don't know what

1524

00:52:53,190 --> 00:52:50,480

information that would necessarily

1525

00:52:54,549 --> 00:52:53,200

impart to a truly alien race quite quite

1526
00:52:55,670 --> 00:52:54,559
honestly i think it's total vanity i

1527
00:52:57,270 --> 00:52:55,680
think it's like there's all this

1528
00:52:58,069 --> 00:52:57,280
diversity on our planet but like these

1529
00:52:59,270 --> 00:52:58,079
are the things that you should be

1530
00:53:01,190 --> 00:52:59,280
looking for and these are sort of like

1531
00:53:02,309 --> 00:53:01,200
the 70s model of what those things

1532
00:53:03,990 --> 00:53:02,319
should be so it was a little

1533
00:53:05,270 --> 00:53:04,000
short-sighted and of course by the time

1534
00:53:06,950 --> 00:53:05,280
they catch up to the aliens that might

1535
00:53:09,750 --> 00:53:06,960
be out there who knows if our sun has

1536
00:53:21,829 --> 00:53:09,760
exploded yes sir

1537
00:53:24,790 --> 00:53:23,190
definitely will have i think there will

1538
00:53:26,549 --> 00:53:24,800

be a lot of negativity that'll go on

1539

00:53:28,390 --> 00:53:26,559

there but spirituality i don't think

1540

00:53:30,230 --> 00:53:28,400

there will be much of an impact

1541

00:53:32,549 --> 00:53:30,240

yeah i know in our show it's it's it's

1542

00:53:36,230 --> 00:53:32,559

interesting because we we we get a lot

1543

00:53:36,870 --> 00:53:36,240

of submissions about uh the weeping mary

1544

00:53:41,670 --> 00:53:36,880

and

1545

00:53:42,470 --> 00:53:41,680

cloud formations that speak to people

1546

00:53:44,390 --> 00:53:42,480

and

1547

00:53:46,309 --> 00:53:44,400

i mean that's speaking to their belief

1548

00:53:48,390 --> 00:53:46,319

system and faith and spirituality

1549

00:53:51,349 --> 00:53:48,400

whatever it is right

1550

00:53:53,109 --> 00:53:51,359

and i i find that that that material

1551
00:53:55,190 --> 00:53:53,119
kind of speaks to me if you're asking me

1552
00:53:56,630 --> 00:53:55,200
what connects with me

1553
00:53:59,910 --> 00:53:56,640
um

1554
00:54:00,870 --> 00:53:59,920
you know and that material kind of does

1555
00:54:03,589 --> 00:54:00,880
i

1556
00:54:05,349 --> 00:54:03,599
um

1557
00:54:07,589 --> 00:54:05,359
what's realistic and theoretical in

1558
00:54:09,190 --> 00:54:07,599
these conversations

1559
00:54:11,190 --> 00:54:09,200
but again i'm a kid from baltimore a lot

1560
00:54:12,549 --> 00:54:11,200
of this stuff is flying over way over my

1561
00:54:14,790 --> 00:54:12,559
head right

1562
00:54:16,710 --> 00:54:14,800
but what but but what i but what i do

1563
00:54:18,710 --> 00:54:16,720

want to understand better

1564

00:54:19,670 --> 00:54:18,720

is how i can connect

1565

00:54:22,630 --> 00:54:19,680

you know

1566

00:54:24,870 --> 00:54:22,640

um particularly people i'll be honest

1567

00:54:26,230 --> 00:54:24,880

about it people of color

1568

00:54:29,270 --> 00:54:26,240

who

1569

00:54:32,630 --> 00:54:30,870

for much of my life have not been

1570

00:54:34,390 --> 00:54:32,640

connected to this world in the space in

1571

00:54:36,230 --> 00:54:34,400

these conversations

1572

00:54:39,910 --> 00:54:36,240

i mean it's it's amazing to have both of

1573

00:54:42,309 --> 00:54:39,920

us here um today talking about this it's

1574

00:54:44,069 --> 00:54:42,319

it's wild and crazy and kooky that i'm

1575

00:54:46,390 --> 00:54:44,079

hosting a show

1576
00:54:48,630 --> 00:54:46,400
that's that's talking about these issues

1577
00:54:50,390 --> 00:54:48,640
and and and i'm learning from you guys

1578
00:54:54,309 --> 00:54:50,400
i'm learning from this panel and and i'm

1579
00:54:56,069 --> 00:54:54,319
happy to call uh lisa a friend um

1580
00:54:57,910 --> 00:54:56,079
who's helping me understand this better

1581
00:55:00,630 --> 00:54:57,920
so that i can

1582
00:55:02,309 --> 00:55:00,640
hopefully bring more people who look

1583
00:55:03,910 --> 00:55:02,319
like me into the space to have these

1584
00:55:05,270 --> 00:55:03,920
conversations

1585
00:55:08,309 --> 00:55:05,280
um

1586
00:55:09,750 --> 00:55:08,319
so this has been wonderful for me

1587
00:55:14,470 --> 00:55:09,760
what are these shoes that you're wearing

1588
00:55:18,069 --> 00:55:16,230

so i'm putting those on the stream thank

1589

00:55:19,829 --> 00:55:18,079

all of you for contributing to what i

1590

00:55:21,430 --> 00:55:19,839

really really i think so unless that's

1591

00:55:22,789 --> 00:55:21,440

another question i don't want to like

1592

00:55:23,589 --> 00:55:22,799

cut anyone off yeah okay we have one

1593

00:55:25,589 --> 00:55:23,599

more

1594

00:55:27,430 --> 00:55:25,599

quick question um sorry amazing paddle

1595

00:55:29,510 --> 00:55:27,440

um so i'm a probiotic chemist so i do

1596

00:55:30,710 --> 00:55:29,520

the origin of life side of astrobiology

1597

00:55:32,789 --> 00:55:30,720

and um

1598

00:55:34,789 --> 00:55:32,799

i'm from australia as well in australia

1599

00:55:37,670 --> 00:55:34,799

maybe academia's a bit more conservative

1600

00:55:38,870 --> 00:55:37,680

where if i wanted to go on a show like

1601
00:55:41,190 --> 00:55:38,880
your show if i wanted to write an

1602
00:55:43,670 --> 00:55:41,200
article about not even like you know

1603
00:55:45,430 --> 00:55:43,680
exploring what's the size behind a ufo

1604
00:55:47,829 --> 00:55:45,440
you know like how could a ufo get here

1605
00:55:50,069 --> 00:55:47,839
or how would life fall on another planet

1606
00:55:51,990 --> 00:55:50,079
my supervisor would really recommend me

1607
00:55:54,230 --> 00:55:52,000
not to do it i'll be shot down i'd be

1608
00:55:55,349 --> 00:55:54,240
hard for me to get a job in academia

1609
00:55:57,589 --> 00:55:55,359
i'm just wondering is that something

1610
00:55:59,510 --> 00:55:57,599
that's experienced in the states and

1611
00:56:01,510 --> 00:55:59,520
as people who are like you know science

1612
00:56:05,589 --> 00:56:01,520
adjacent in arts and sci-fi like how do

1613
00:56:09,829 --> 00:56:07,430

it's perfectly cool if you're at georgia

1614

00:56:11,990 --> 00:56:09,839

tech yeah okay

1615

00:56:13,430 --> 00:56:12,000

no um it would be the same thing here in

1616

00:56:14,710 --> 00:56:13,440

part it has to do with seniority though

1617

00:56:16,150 --> 00:56:14,720

as well and that's true even at tech

1618

00:56:19,349 --> 00:56:16,160

that we would certainly encourage

1619

00:56:21,829 --> 00:56:19,359

younger faculty or developing um phds

1620

00:56:22,950 --> 00:56:21,839

and younger faculty to maybe not pursue

1621

00:56:26,069 --> 00:56:22,960

that stuff i mean take it if it's

1622

00:56:28,549 --> 00:56:26,079

offered but like yeah um publish books

1623

00:56:31,430 --> 00:56:28,559

with peer-reviewed journals yeah presses

1624

00:56:32,549 --> 00:56:31,440

and things um but again i think you know

1625

00:56:33,829 --> 00:56:32,559

this is important and something i

1626
00:56:35,750 --> 00:56:33,839
actually do like about georgia tech is

1627
00:56:37,990 --> 00:56:35,760
they push those of us who are past

1628
00:56:39,270 --> 00:56:38,000
near to develop as public intellectuals

1629
00:56:41,270 --> 00:56:39,280
and this is so important we've been

1630
00:56:43,109 --> 00:56:41,280
talking today about the difficulty of

1631
00:56:45,589 --> 00:56:43,119
negotiating a sort of black box science

1632
00:56:47,109 --> 00:56:45,599
versus a more open science and i think

1633
00:56:48,710 --> 00:56:47,119
that you know doing public intellectual

1634
00:56:50,309 --> 00:56:48,720
work and doing things like appearing on

1635
00:56:51,829 --> 00:56:50,319
shows like tony show being on james

1636
00:56:53,670 --> 00:56:51,839
cameron's story of science fiction

1637
00:56:55,109 --> 00:56:53,680
talking in the philadelphia enquirer uh

1638
00:56:56,630 --> 00:56:55,119

like andre

1639

00:56:58,230 --> 00:56:56,640

you have to engage and we have to reach

1640

00:57:00,470 --> 00:56:58,240

each other if you want to start to get

1641

00:57:01,910 --> 00:57:00,480

people comfortable with all of these

1642

00:57:03,270 --> 00:57:01,920

things we're talking about and sort of

1643

00:57:05,589 --> 00:57:03,280

the next stage of intellectual and

1644

00:57:06,870 --> 00:57:05,599

social development like we gotta keep

1645

00:57:10,549 --> 00:57:06,880

talking to each other and not just

1646

00:57:15,109 --> 00:57:12,630

quick question you said uh people have

1647

00:57:16,710 --> 00:57:15,119

to be more comfortable with uncertainty

1648

00:57:19,109 --> 00:57:16,720

one of the ways you can think about it

1649

00:57:20,870 --> 00:57:19,119

is risk to reward ratio so maybe a

1650

00:57:23,270 --> 00:57:20,880

better way of making people feel more

1651
00:57:25,750 --> 00:57:23,280
comfortable is explaining it to them in

1652
00:57:27,750 --> 00:57:25,760
a way that material gain is possible for

1653
00:57:29,190 --> 00:57:27,760
the amount of risk

1654
00:57:31,670 --> 00:57:29,200
proportional to

1655
00:57:36,390 --> 00:57:31,680
whatever alien thing could

1656
00:57:38,630 --> 00:57:37,510
i guess i'll just wrap it up with this

1657
00:57:39,990 --> 00:57:38,640
and this kind of addresses your question

1658
00:57:42,309 --> 00:57:40,000
earlier i think that like science is

1659
00:57:44,710 --> 00:57:42,319
sort of a mediating

1660
00:57:46,470 --> 00:57:44,720
medium but i'm sorry for the redundancy

1661
00:57:47,910 --> 00:57:46,480
of possibility essentially it's like we

1662
00:57:49,270 --> 00:57:47,920
can be imaginative and we can think up

1663
00:57:50,789 --> 00:57:49,280

all the possibilities in the universe

1664

00:57:52,470 --> 00:57:50,799

and then we use science to sort of

1665

00:57:54,870 --> 00:57:52,480

empirically

1666

00:57:56,470 --> 00:57:54,880

remove those possibilities from the the

1667

00:57:57,990 --> 00:57:56,480

actual and so like this faithful

1668

00:57:59,910 --> 00:57:58,000

possibility that god is the you know

1669

00:58:01,589 --> 00:57:59,920

prime designer that hasn't yet been

1670

00:58:03,109 --> 00:58:01,599

disproven by science it remains as

1671

00:58:04,630 --> 00:58:03,119

viable a possibility as all the other

1672

00:58:06,230 --> 00:58:04,640

ones that like whether the stuff that

1673

00:58:07,829 --> 00:58:06,240

you're doing in your lab in australia

1674

00:58:09,990 --> 00:58:07,839

but the fact of the matter is if if

1675

00:58:11,750 --> 00:58:10,000

there is an infinity of possibilities i

1676
00:58:12,950 --> 00:58:11,760
feel like science makes that finite and

1677
00:58:14,069 --> 00:58:12,960
i think that's an extraordinary step

1678
00:58:15,589 --> 00:58:14,079
forward and

1679
00:58:17,270 --> 00:58:15,599
so like it's it's all it's it's it's

1680
00:58:18,630 --> 00:58:17,280
almost like art gives science the

1681
00:58:21,109 --> 00:58:18,640
opportunity to

1682
00:58:22,789 --> 00:58:21,119
be a little more judicious adjudicating

1683
00:58:24,069 --> 00:58:22,799
about what could and could not be

1684
00:58:25,670 --> 00:58:24,079
but it's like it's a loop and it's a

1685
00:58:36,069 --> 00:58:25,680
feedback you can't do one without the

1686
00:58:38,630 --> 00:58:37,190
thank you all for bringing your very

1687
00:58:40,230 --> 00:58:38,640
exploratory questions for your

1688
00:58:41,750 --> 00:58:40,240

open-mindedness to the possibility of

1689

00:58:43,589 --> 00:58:41,760

alien existence and thank you three for

1690

00:58:46,870 --> 00:58:43,599

your expertise on the on the possibility

1691

00:58:48,470 --> 00:58:46,880

of a human peace or lack thereof when

1692

00:58:50,150 --> 00:58:48,480

this happens but i'm i'm hoping for

1693

00:58:55,190 --> 00:58:50,160

peace so can we get a round of applause