

1
00:00:05,929 --> 00:00:13,699
welcome to the skeptic zone the podcast

2
00:00:09,119 --> 00:00:13,699
from Australia for science and reason

3
00:00:22,730 --> 00:00:28,829
hello and welcome to the skeptic zone

4
00:00:25,410 --> 00:00:32,130
episode number 185 on the fourteenth of

5
00:00:28,829 --> 00:00:35,579
july i am coming to you in the hallway

6
00:00:32,130 --> 00:00:38,370
the expansive hallway here at the south

7
00:00:35,579 --> 00:00:40,560
point casino just outside the amazing

8
00:00:38,369 --> 00:00:42,269
meeting alongside me for the

9
00:00:40,560 --> 00:00:44,670
introduction today is our good friend

10
00:00:42,270 --> 00:00:47,550
and us correspondent on the East Coast

11
00:00:44,670 --> 00:00:49,350
Travis Roy hi Travis hey Rachel how's it

12
00:00:47,549 --> 00:00:50,849
going I'm going really well it's a bit

13
00:00:49,350 --> 00:00:52,649
early in the morning i must admit people

14
00:00:50,850 --> 00:00:54,270
filing into one of the early morning

15
00:00:52,649 --> 00:00:56,489
sessions but it's a bit quiet down this

16
00:00:54,270 --> 00:00:58,620
end of the hallway and a perfect

17
00:00:56,490 --> 00:01:01,500
opportunity to do a little work on the

18
00:00:58,619 --> 00:01:03,689
skeptic zone house yard oh I can hear

19
00:01:01,500 --> 00:01:06,239
the tones of George rub in the other

20
00:01:03,689 --> 00:01:08,069
room how's your amazing meeting being so

21
00:01:06,239 --> 00:01:11,669
far it's been absolutely amazing

22
00:01:08,069 --> 00:01:13,489
likeness I thought you'd say that I

23
00:01:11,670 --> 00:01:15,659
thought you'd say that well it's

24
00:01:13,489 --> 00:01:17,728
everybody I've spoken to and so many

25
00:01:15,659 --> 00:01:19,079
people so many people have come up and

26
00:01:17,728 --> 00:01:20,248
said how much they liked listening to

27
00:01:19,078 --> 00:01:22,228
the skeptic zone and that's very

28
00:01:20,248 --> 00:01:25,048
pleasing and have you seen Maynard

29

00:01:22,228 --> 00:01:27,390
running around oh yes of course let miss

30
00:01:25,049 --> 00:01:29,490
him last night with his gold jacket God

31
00:01:27,390 --> 00:01:32,489
he was wearing a gold jacket to the Penn

32
00:01:29,489 --> 00:01:34,199
Jillette show last night and he who is

33
00:01:32,489 --> 00:01:37,169
having a great time I think he's sound

34
00:01:34,200 --> 00:01:38,879
asleep right now good for him yes I

35
00:01:37,170 --> 00:01:41,248
would be too after the long may he had

36
00:01:38,879 --> 00:01:43,078
but listeners will be so happy to know

37
00:01:41,248 --> 00:01:45,449
that may not is having a wonderful time

38
00:01:43,078 --> 00:01:48,239
here at the amazing meeting because it's

39
00:01:45,450 --> 00:01:51,030
the listeners who really got me not here

40
00:01:48,239 --> 00:01:53,248
for this event here tells me he's got

41
00:01:51,030 --> 00:01:57,090
something got something over a gigabyte

42
00:01:53,248 --> 00:01:58,858
of in interviews so far yeah I've seen

43
00:01:57,090 --> 00:02:00,689

almost every time I've seen him he said

44

00:01:58,858 --> 00:02:04,169

a microphone in somebody's face I agree

45

00:02:00,688 --> 00:02:07,108

and I think he's got something in the

46

00:02:04,170 --> 00:02:09,360

vicinity of 60 interviews done so far

47

00:02:07,108 --> 00:02:11,310

wow that doesn't mean they're hours

48

00:02:09,360 --> 00:02:12,960

worth of interviews each there may be

49

00:02:11,310 --> 00:02:15,229

five minutes here in 10 minutes there or

50

00:02:12,960 --> 00:02:16,760

whatever the case may be and

51

00:02:15,229 --> 00:02:18,109

well we look forward to hearing those in

52

00:02:16,759 --> 00:02:19,340

fact some of those will be coming on

53

00:02:18,110 --> 00:02:21,260

later in the show I better tell you

54

00:02:19,340 --> 00:02:22,519

what's on the show as I would love to

55

00:02:21,259 --> 00:02:24,378

hear with on what's on the show that's

56

00:02:22,519 --> 00:02:25,730

we better find out we're going to kick

57

00:02:24,378 --> 00:02:27,530

off with a little interview I did with

58
00:02:25,729 --> 00:02:30,139
our good friend from the skeptics guide

59
00:02:27,530 --> 00:02:32,689
to the universe Evan Bernstein now Evan

60
00:02:30,139 --> 00:02:36,289
and I and the rest of the skeptics guide

61
00:02:32,689 --> 00:02:39,560
to the universe crew are just last week

62
00:02:36,289 --> 00:02:43,310
were invited to visit Pixar Animation

63
00:02:39,560 --> 00:02:46,128
Studios up there near San Francisco and

64
00:02:43,310 --> 00:02:49,430
the very next day we were down the coast

65
00:02:46,128 --> 00:02:50,870
a little bit at Google headquarters yeah

66
00:02:49,430 --> 00:02:53,060
they showed pictures of it during their

67
00:02:50,870 --> 00:02:54,620
live performance yesterday and it looked

68
00:02:53,060 --> 00:02:57,680
like it was a good time if they did

69
00:02:54,620 --> 00:03:00,049
indeed that was a great time so are we I

70
00:02:57,680 --> 00:03:02,750
have a little chat to Evan about our

71
00:03:00,049 --> 00:03:04,280
trip to Pixar and Google that's at the

72
00:03:02,750 --> 00:03:06,500
top of the show then after the break I

73
00:03:04,280 --> 00:03:08,030
catch up with our dear friend Eugenie

74
00:03:06,500 --> 00:03:09,889
Scott from the National Center for

75
00:03:08,030 --> 00:03:12,919
Science Education she's going to discuss

76
00:03:09,889 --> 00:03:15,708
many things including her frequent

77
00:03:12,919 --> 00:03:18,409
visits to the Grand Canyon and more

78
00:03:15,709 --> 00:03:20,780
creationism and evolution stories coming

79
00:03:18,409 --> 00:03:23,030
up Eugenie is always a lovely person oh

80
00:03:20,780 --> 00:03:25,219
she's and I've seen her here running

81
00:03:23,030 --> 00:03:27,409
around the corridors too lovely to see

82
00:03:25,219 --> 00:03:29,000
Jeanne Scott and to round off the show

83
00:03:27,409 --> 00:03:31,280
oh yes oh yes we're going to take

84
00:03:29,000 --> 00:03:33,979
advantage of maynards microphone it's

85
00:03:31,280 --> 00:03:36,739
Maynard spooky action with an assortment

86

00:03:33,979 --> 00:03:39,530
of clips and insights from various

87
00:03:36,739 --> 00:03:41,840
people here at the amazing meeting great

88
00:03:39,530 --> 00:03:43,459
can't wait to hear it I mean it's again

89
00:03:41,840 --> 00:03:45,139
folks it's just so wonderful to see

90
00:03:43,459 --> 00:03:47,299
Maynard running around he runs around

91
00:03:45,139 --> 00:03:48,980
then absolutely crushes with jet lag and

92
00:03:47,299 --> 00:03:50,659
goes to bed for two hours jumps out of

93
00:03:48,979 --> 00:03:52,909
bed again and is running around with

94
00:03:50,659 --> 00:03:54,590
this microphone well it's enough from us

95
00:03:52,909 --> 00:03:56,689
here at the far end of the corridor

96
00:03:54,590 --> 00:03:59,659
sitting at the Australian skeptics table

97
00:03:56,689 --> 00:04:02,389
Travis let's get on and listen to the

98
00:03:59,659 --> 00:04:05,620
skeptic zone while I run down the

99
00:04:02,389 --> 00:04:05,620
corridor and grab the coffee

100
00:04:20,910 --> 00:04:28,720

well they're glorious melody of Michael

101

00:04:24,370 --> 00:04:30,069

Jackson in the background but now I'm

102

00:04:28,720 --> 00:04:32,260

trying I'm trying to be optimistic I'm

103

00:04:30,069 --> 00:04:34,839

trying to be a beat about it I'm with

104

00:04:32,259 --> 00:04:37,000

Evan Bernstein from the skeptics guide

105

00:04:34,839 --> 00:04:39,129

to the universe podcast hi Evan Richard

106

00:04:37,000 --> 00:04:40,750

how are you I'm really well I'm having

107

00:04:39,129 --> 00:04:42,550

such a wonderful time with you guys

108

00:04:40,750 --> 00:04:45,160

hanging out with St you yesterday we

109

00:04:42,550 --> 00:04:47,379

were at Pixar which was mind-blowing it

110

00:04:45,160 --> 00:04:49,210

was it was tremendous I've been watching

111

00:04:47,379 --> 00:04:50,288

Pixar movies while since Toy Story I

112

00:04:49,209 --> 00:04:52,599

mean they really that was the first

113

00:04:50,288 --> 00:04:54,038

movie I've seen everyone since so I

114

00:04:52,600 --> 00:04:55,810

can't really say I've grown up with

115
00:04:54,038 --> 00:04:57,339
Pixar you know cuz I was an adult when

116
00:04:55,810 --> 00:04:59,860
I've seen these movies but half my life

117
00:04:57,339 --> 00:05:01,269
I've been watching these movies and to

118
00:04:59,860 --> 00:05:03,250
actually go to the place where they

119
00:05:01,269 --> 00:05:06,339
create the actual magic is just

120
00:05:03,250 --> 00:05:08,350
spectacular it was I couldn't imagine

121
00:05:06,339 --> 00:05:11,250
what it was like because it was a

122
00:05:08,350 --> 00:05:13,479
wonderfully modern sort of building and

123
00:05:11,250 --> 00:05:15,069
then we were taking sort of behind the

124
00:05:13,478 --> 00:05:18,009
scenes where people have their little

125
00:05:15,069 --> 00:05:19,870
office and it was like a theme park

126
00:05:18,009 --> 00:05:21,610
every little office was like a different

127
00:05:19,870 --> 00:05:23,110
theme park with it to make the workers

128
00:05:21,610 --> 00:05:24,970
more comfortable is incredible the

129
00:05:23,110 --> 00:05:28,509
culture there is pretty incredible how

130
00:05:24,970 --> 00:05:30,010
they really enhance the creative aspects

131
00:05:28,509 --> 00:05:32,589
of what they're doing and they really

132
00:05:30,009 --> 00:05:34,269
let their people relax as much as they

133
00:05:32,589 --> 00:05:36,038
can while they're getting some pretty

134
00:05:34,269 --> 00:05:37,359
you know tough work done I mean let's

135
00:05:36,038 --> 00:05:39,038
face it they're doing some pretty

136
00:05:37,360 --> 00:05:41,080
strenuous work at times especially when

137
00:05:39,038 --> 00:05:43,240
they're looking to meet their deadlines

138
00:05:41,079 --> 00:05:45,038
for or these movies coming out and there

139
00:05:43,240 --> 00:05:48,759
are crunch times there but at the same

140
00:05:45,038 --> 00:05:50,110
time they know how to relax in the

141
00:05:48,759 --> 00:05:52,509
middle of it all and take some of that

142
00:05:50,110 --> 00:05:55,090
stress away it's an extremely extremely

143

00:05:52,509 --> 00:05:56,439
well let's just say I'm jealous of those

144
00:05:55,089 --> 00:05:57,728
who work there and I wish I could work

145
00:05:56,439 --> 00:05:59,139
in an environment like that i mean i

146
00:05:57,728 --> 00:06:00,848
wish i had the skills to work an

147
00:05:59,139 --> 00:06:04,269
environment like that but i guess it the

148
00:06:00,848 --> 00:06:07,750
whole place is tailored to get people to

149
00:06:04,269 --> 00:06:09,098
be creative and have that fire in their

150
00:06:07,750 --> 00:06:10,598
belly and be passionate about what

151
00:06:09,098 --> 00:06:12,009
they're creating and that translates

152
00:06:10,598 --> 00:06:14,569
onto the screen you know when you put

153
00:06:12,009 --> 00:06:16,788
love and dedication into a movie

154
00:06:14,569 --> 00:06:18,379
it pays off I guess it definitely pays

155
00:06:16,788 --> 00:06:20,688
off you can tell I mean their quality

156
00:06:18,379 --> 00:06:23,270
their product is really tremendous

157
00:06:20,689 --> 00:06:25,069

quality listeners who are familiar with

158

00:06:23,269 --> 00:06:27,649

the Pixar films you know the Toy Story

159

00:06:25,069 --> 00:06:31,639

series cars movies omona tables

160

00:06:27,649 --> 00:06:33,588

Incredibles finding neo ratatouille

161

00:06:31,639 --> 00:06:36,709

brave is yeah their latest release I

162

00:06:33,588 --> 00:06:39,288

mean it just it just for a person like

163

00:06:36,709 --> 00:06:41,059

myself who's very interested in just

164

00:06:39,288 --> 00:06:43,368

movies over all and especially animated

165

00:06:41,059 --> 00:06:45,349

features and I like a lot of them but

166

00:06:43,369 --> 00:06:48,379

pics are always seems to come out with

167

00:06:45,348 --> 00:06:50,240

the best quality material and having

168

00:06:48,379 --> 00:06:52,520

visited their headquarters now you can

169

00:06:50,240 --> 00:06:54,709

almost see how they're able to make that

170

00:06:52,519 --> 00:06:57,498

possible now listeners may be wondering

171

00:06:54,709 --> 00:06:59,569

what the noise is behind us Evan and I

172
00:06:57,499 --> 00:07:01,729
are standing in the auditorium here at

173
00:06:59,569 --> 00:07:04,430
Google headquarters Google headquarters

174
00:07:01,728 --> 00:07:06,618
weird giving a presentation today to the

175
00:07:04,430 --> 00:07:09,800
Google skeptic which is fantastic and

176
00:07:06,619 --> 00:07:11,119
they've just opened the cafeteria but so

177
00:07:09,800 --> 00:07:12,800
that but just getting back to pics how

178
00:07:11,119 --> 00:07:15,759
quickly one of the things i must say and

179
00:07:12,800 --> 00:07:19,430
this is no means to suck up to them

180
00:07:15,759 --> 00:07:21,919
where we treated well or what we were

181
00:07:19,430 --> 00:07:24,439
treated so well personal tours and stuff

182
00:07:21,918 --> 00:07:26,418
and it was just fantastic VIPs we were

183
00:07:24,439 --> 00:07:28,459
but you see the sum of their people who

184
00:07:26,418 --> 00:07:31,368
work there are listeners of both of our

185
00:07:28,459 --> 00:07:32,809
shows they were thrilled as thrilled as

186
00:07:31,369 --> 00:07:35,149
we were to be there they were thrilled

187
00:07:32,809 --> 00:07:38,269
to have us they're definitely symbiotic

188
00:07:35,149 --> 00:07:39,889
in that in that relationship and so here

189
00:07:38,269 --> 00:07:42,379
we are we finding ourselves at google

190
00:07:39,889 --> 00:07:44,809
today and we we have fans at Google who

191
00:07:42,379 --> 00:07:46,939
listen to both our podcast which is very

192
00:07:44,809 --> 00:07:50,149
flattering to know our win a huge room

193
00:07:46,939 --> 00:07:51,588
here all the chairs long tables the

194
00:07:50,149 --> 00:07:53,689
chairs are all the colors of the google

195
00:07:51,588 --> 00:07:56,269
logo we've got google logos around us

196
00:07:53,689 --> 00:07:57,528
and there's a few people milling about i

197
00:07:56,269 --> 00:07:59,930
think we're going to go over soon and

198
00:07:57,528 --> 00:08:02,899
grab ourselves a bit of lunch but i'm

199
00:07:59,930 --> 00:08:05,269
looking forward to being part of kindly

200

00:08:02,899 --> 00:08:07,069
being part of the SGU lineup today too i

201
00:08:05,269 --> 00:08:09,439
guess a guest rogue on the side

202
00:08:07,069 --> 00:08:12,079
absolutely to talk to these people here

203
00:08:09,439 --> 00:08:14,619
at Google but it's an incredible place

204
00:08:12,079 --> 00:08:16,728
we just walk through a garden of

205
00:08:14,619 --> 00:08:18,529
sculptures but they were all of famous

206
00:08:16,728 --> 00:08:20,988
oceanographers

207
00:08:18,528 --> 00:08:24,709
how strange is that it's strange and at

208
00:08:20,988 --> 00:08:26,118
the same time amazing because I don't

209
00:08:24,709 --> 00:08:28,129
know where else you can kind of go to

210
00:08:26,119 --> 00:08:30,259
see this sort of what other what other

211
00:08:28,129 --> 00:08:33,158
corporate campus do you walk around and

212
00:08:30,259 --> 00:08:35,269
you see you know busts and artwork and

213
00:08:33,158 --> 00:08:36,979
paintings and it'll be and all these

214
00:08:35,269 --> 00:08:39,740

other amazing things we've just been

215

00:08:36,979 --> 00:08:41,360

given an order by Steve novella to come

216

00:08:39,740 --> 00:08:42,889

across to the other side of the room so

217

00:08:41,360 --> 00:08:45,110

I guess we can't ignore an order by

218

00:08:42,889 --> 00:08:46,759

seeing the Sun and we having some Evan

219

00:08:45,110 --> 00:08:48,620

great to catch up with you and I look

220

00:08:46,759 --> 00:08:52,389

forward to sharing the stage with you in

221

00:08:48,620 --> 00:08:52,389

about an hour Richard likewise thank you

222

00:08:55,839 --> 00:09:00,499

hey guys this is jay from the skeptics

223

00:08:58,669 --> 00:09:03,289

guide to the universe or well held on

224

00:09:00,499 --> 00:09:05,058

whoa everybody knows I'm the only reason

225

00:09:03,289 --> 00:09:06,230

to listen to the Freak Show right I mean

226

00:09:05,058 --> 00:09:12,980

if it was up to me the show would start

227

00:09:06,230 --> 00:09:14,899

with this yeah boy well Rebecca would

228

00:09:12,980 --> 00:09:16,610

hate that probably but I mean I'd rock

229
00:09:14,899 --> 00:09:17,629
that listen to our show and you can

230
00:09:16,610 --> 00:09:19,308
learn about cool stuff like a

231
00:09:17,629 --> 00:09:21,079
technological singularity which is

232
00:09:19,308 --> 00:09:22,578
someday when technology progresses so

233
00:09:21,078 --> 00:09:23,958
fast that it would make the Industrial

234
00:09:22,578 --> 00:09:27,019
Revolution look like a kid science

235
00:09:23,958 --> 00:09:31,119
project anyway come check us out at WWDC

236
00:09:27,019 --> 00:09:31,120
epic sea org and get your son

237
00:09:46,639 --> 00:09:52,019
okay so where were we choose a genie

238
00:09:49,828 --> 00:09:53,698
California good Berkeley coffee good

239
00:09:52,019 --> 00:09:55,679
Berkeley coffee i'm in berkeley of

240
00:09:53,698 --> 00:09:57,899
course no i'm not even clear enough

241
00:09:55,679 --> 00:09:59,519
technically i'm in oakland on that's

242
00:09:57,899 --> 00:10:02,789
what the map says that is where we are

243
00:09:59,519 --> 00:10:04,198
and i'm with my dear dear old friend not

244
00:10:02,789 --> 00:10:06,809
old i'm sorry my dear friend who I've

245
00:10:04,198 --> 00:10:08,639
known for a while my longtime friend oh

246
00:10:06,809 --> 00:10:10,528
that's the way to do you say my long

247
00:10:08,639 --> 00:10:13,169
time for my long time friend Eugenie

248
00:10:10,528 --> 00:10:16,110
Scott hello genies I just it's just

249
00:10:13,169 --> 00:10:18,299
always so wonderful to meet up with you

250
00:10:16,110 --> 00:10:20,250
um well it really is and to be here in

251
00:10:18,299 --> 00:10:22,559
the National Center for Science

252
00:10:20,250 --> 00:10:25,528
Education drinking our coffee hmm well

253
00:10:22,559 --> 00:10:27,689
it's great to have you come by it's been

254
00:10:25,528 --> 00:10:31,649
a real treat and I'm looking forward

255
00:10:27,690 --> 00:10:33,060
especially to tonight because you and I

256
00:10:31,649 --> 00:10:35,610
are both going to the amazing meeting

257

00:10:33,059 --> 00:10:37,169
and we're both leaving tomorrow on

258
00:10:35,610 --> 00:10:40,470
different flights as it happens but

259
00:10:37,169 --> 00:10:44,399
tonight after i chat to you we're going

260
00:10:40,470 --> 00:10:47,670
to is it a restaurant or is it it is a

261
00:10:44,399 --> 00:10:49,318
it's it's a it's a non-profit it's a

262
00:10:47,669 --> 00:10:52,559
restaurant but it's a meeting space as

263
00:10:49,318 --> 00:10:55,259
well a place called cafe Valparaiso it's

264
00:10:52,559 --> 00:10:56,789
run by some Chileans and i will be

265
00:10:55,259 --> 00:10:58,289
buying you dinner since you are kind

266
00:10:56,789 --> 00:11:00,599
enough to speak for the Bay Area

267
00:10:58,289 --> 00:11:03,629
skeptics you will be eating chili in

268
00:11:00,600 --> 00:11:05,220
food science what is great and you are

269
00:11:03,629 --> 00:11:08,730
going to be speaking for the Bay Area

270
00:11:05,220 --> 00:11:10,740
skeptic so usual second Wednesday of the

271
00:11:08,730 --> 00:11:13,409

month meeting and we are delighted at

272

00:11:10,740 --> 00:11:14,970

and i'll be speaking about my adventures

273

00:11:13,409 --> 00:11:18,778

with the power balance which is an

274

00:11:14,970 --> 00:11:20,339

interesting topic and giving a few

275

00:11:18,778 --> 00:11:22,139

demonstrations i'm particularly looking

276

00:11:20,339 --> 00:11:23,930

forward to that but what a treat it is

277

00:11:22,139 --> 00:11:27,329

in fact i remember one of the first

278

00:11:23,929 --> 00:11:30,299

talks if not the first talk i ever gave

279

00:11:27,328 --> 00:11:32,609

in the united states was for you was

280

00:11:30,299 --> 00:11:34,229

that really yeah and you were there and

281

00:11:32,610 --> 00:11:36,600

Phil Plait was there it was for the Bay

282

00:11:34,230 --> 00:11:39,688

Area's captain I was a little library in

283

00:11:36,600 --> 00:11:41,649

Berkeley yes yeah and in two thousand

284

00:11:39,688 --> 00:11:43,899

and rule because it then whenever

285

00:11:41,649 --> 00:11:46,749

well we we have met in a variety of

286
00:11:43,899 --> 00:11:48,220
places over the years and this little

287
00:11:46,749 --> 00:11:49,569
space here seems to be working out

288
00:11:48,220 --> 00:11:51,189
pretty well for that's vented but

289
00:11:49,568 --> 00:11:54,219
looking people that just as nice as can

290
00:11:51,188 --> 00:11:55,868
be so we like so and it's close to

291
00:11:54,220 --> 00:11:58,509
public transportation which is very

292
00:11:55,869 --> 00:12:00,490
important yeah that's good too now we

293
00:11:58,509 --> 00:12:02,289
just before we were recording we were

294
00:12:00,490 --> 00:12:05,409
having a chat because just after the

295
00:12:02,289 --> 00:12:07,448
amazing meeting which were both heading

296
00:12:05,409 --> 00:12:08,889
off to very soon just after that you're

297
00:12:07,448 --> 00:12:10,928
eating off to one of your favorite

298
00:12:08,889 --> 00:12:15,159
places in the world indeed the grace

299
00:12:10,928 --> 00:12:19,058
Canyon Tam ends on Sunday and on Monday

300
00:12:15,159 --> 00:12:21,100
I take off my presentation clothes and

301
00:12:19,058 --> 00:12:23,350
put on my grubby old shorts and t-shirts

302
00:12:21,100 --> 00:12:27,459
your adventure because my pick up my

303
00:12:23,350 --> 00:12:29,709
tent yeah head off to Grand Canyon and

304
00:12:27,458 --> 00:12:32,138
you've been there 11 times this will be

305
00:12:29,708 --> 00:12:34,239
my 11th time and I remember if I'm

306
00:12:32,139 --> 00:12:36,278
counting correctly and I bet every time

307
00:12:34,240 --> 00:12:39,839
you go without exception there are new

308
00:12:36,278 --> 00:12:42,490
things absolutely absolutely this is a

309
00:12:39,839 --> 00:12:44,619
rafting trip down Grand Canyon we start

310
00:12:42,490 --> 00:12:46,240
at the essentially at the top of Grand

311
00:12:44,619 --> 00:12:50,110
Canyon a little place called Lee's ferry

312
00:12:46,240 --> 00:12:51,879
and we ride through all of the strata

313
00:12:50,110 --> 00:12:55,568
basically from the top of the canyon

314

00:12:51,879 --> 00:12:59,139
down to the shifts and granites of the

315
00:12:55,568 --> 00:13:00,549
Precambrian rocks and then we come out

316
00:12:59,139 --> 00:13:03,249
of the canyon and actually actually of

317
00:13:00,549 --> 00:13:05,708
course the river itself is in the same

318
00:13:03,249 --> 00:13:07,870
place as just the Colorado Plateau has

319
00:13:05,708 --> 00:13:09,399
been uplifted so that the feeling is

320
00:13:07,870 --> 00:13:11,078
you're going down but actually you are

321
00:13:09,399 --> 00:13:13,720
in the same place because you understood

322
00:13:11,078 --> 00:13:15,428
and the ground went up so it's a sort of

323
00:13:13,720 --> 00:13:18,009
an optical illusion there but it

324
00:13:15,428 --> 00:13:21,100
geologically it is truly one of the most

325
00:13:18,009 --> 00:13:23,528
magnificent places on the planet and so

326
00:13:21,100 --> 00:13:25,928
it's a lovely place from a scientific

327
00:13:23,528 --> 00:13:27,909
standpoint and there's wonderful natural

328
00:13:25,928 --> 00:13:31,568

history there I I was just looking

329

00:13:27,909 --> 00:13:33,969

through my diary from last year and I

330

00:13:31,568 --> 00:13:35,649

noticed noted this is probably going to

331

00:13:33,970 --> 00:13:38,970

scare people away but there's a very

332

00:13:35,649 --> 00:13:41,708

rare pink rattle snake that lives

333

00:13:38,970 --> 00:13:43,540

practically no place other than the

334

00:13:41,708 --> 00:13:46,778

Grand Canyon and it's a very rare kind

335

00:13:43,539 --> 00:13:49,028

of creature and one what we saw one last

336

00:13:46,778 --> 00:13:51,220

last year it was very excited really so

337

00:13:49,028 --> 00:13:52,649

of course it wasn't and one of our

338

00:13:51,220 --> 00:13:55,649

campsites but

339

00:13:52,649 --> 00:13:59,068

yeah it's just a really easy to be yes

340

00:13:55,649 --> 00:14:02,938

it's it's a it's not an albino but it's

341

00:13:59,068 --> 00:14:07,378

this kind of you know light light pink

342

00:14:02,938 --> 00:14:08,730

Oh sort of rosy tan if you help but it's

343
00:14:07,379 --> 00:14:10,438
a very intrested so there's interesting

344
00:14:08,730 --> 00:14:13,139
creatures there it's an interesting

345
00:14:10,438 --> 00:14:15,389
ecology because the area right around

346
00:14:13,139 --> 00:14:17,698
the river is quite dry and of course

347
00:14:15,389 --> 00:14:19,678
very rocky hmm but if you go up side

348
00:14:17,698 --> 00:14:22,469
canyons and we do that all the time you

349
00:14:19,678 --> 00:14:24,208
know take hikes laterally you get into a

350
00:14:22,470 --> 00:14:25,740
very different kind of ecosystem where

351
00:14:24,208 --> 00:14:27,268
you have different kinds of trees of

352
00:14:25,740 --> 00:14:29,789
course it's much better watered because

353
00:14:27,269 --> 00:14:31,318
what makes it aside Canyon is generally

354
00:14:29,789 --> 00:14:33,299
there's a little creek right yes

355
00:14:31,318 --> 00:14:36,688
permanently or intermittently through

356
00:14:33,299 --> 00:14:39,139
yeah but it's a it's a raft trip and

357

00:14:36,688 --> 00:14:42,208

there's like I said great science

358

00:14:39,139 --> 00:14:45,028

geology various kinds of natural history

359

00:14:42,208 --> 00:14:47,878

but because obviously this is an NCIC

360

00:14:45,028 --> 00:14:51,360

trip right so we do a creation and

361

00:14:47,879 --> 00:14:53,159

evolution tore down Grand Canyon and one

362

00:14:51,360 --> 00:14:56,278

of my colleagues is a trained geologist

363

00:14:53,159 --> 00:14:58,588

a very skillful teacher steve newton and

364

00:14:56,278 --> 00:15:01,649

he is you will tell you the real story

365

00:14:58,589 --> 00:15:04,620

of Grand Canyon and I will tell you the

366

00:15:01,649 --> 00:15:06,539

creationist version of how these four

367

00:15:04,620 --> 00:15:09,959

thousand layers of sediment were all

368

00:15:06,539 --> 00:15:12,870

laid down during the period of Noah's

369

00:15:09,958 --> 00:15:15,599

Flood and as the water receded laid down

370

00:15:12,870 --> 00:15:17,009

these various shales and sand stones and

371

00:15:15,600 --> 00:15:22,709
mud stones and all the other kinds of

372
00:15:17,009 --> 00:15:25,769
rocks and how the large impoundment of

373
00:15:22,708 --> 00:15:30,659
water north of Grand Canyon catastrophic

374
00:15:25,769 --> 00:15:34,470
Lee cut the huge 350 mile Gorge over a

375
00:15:30,659 --> 00:15:38,100
period of about a week or so and so my

376
00:15:34,470 --> 00:15:40,949
partner this goes much more quickly in

377
00:15:38,100 --> 00:15:43,079
more ways than one you can you get

378
00:15:40,948 --> 00:15:44,909
hysterical laughter all chuckles awesome

379
00:15:43,078 --> 00:15:46,888
well of course all the people going on

380
00:15:44,909 --> 00:15:48,389
this trip our NCSE members and their

381
00:15:46,889 --> 00:15:50,249
friends and family and so everybody's

382
00:15:48,389 --> 00:15:52,198
kind of kind of knows I mean it's not

383
00:15:50,249 --> 00:15:54,149
like I'm trying to convince them like

384
00:15:52,198 --> 00:15:56,389
the truth of young earth creationist I

385
00:15:54,149 --> 00:15:58,649

admit but we really do have very serious

386

00:15:56,389 --> 00:16:00,950
conversations about what are the

387

00:15:58,649 --> 00:16:04,159
creation is saying about this and

388

00:16:00,950 --> 00:16:07,970
how would you answer it I say because I

389

00:16:04,159 --> 00:16:09,799
mean most of just like the intelligent

390

00:16:07,970 --> 00:16:12,470
design people or any other creationist

391

00:16:09,799 --> 00:16:14,179
when creationists deal with the geology

392

00:16:12,470 --> 00:16:17,899
of Grand Canyon they get into fairly

393

00:16:14,179 --> 00:16:20,870
technical things why is it that a sample

394

00:16:17,899 --> 00:16:24,649
of one of the lavas taken from the top

395

00:16:20,870 --> 00:16:27,139
of the canyon dates to a very young age

396

00:16:24,649 --> 00:16:29,149
which doesn't fit with the rest of the

397

00:16:27,139 --> 00:16:30,860
geology around what's wrong with it well

398

00:16:29,149 --> 00:16:33,649
most of his allergies I don't know

399

00:16:30,860 --> 00:16:35,389
exactly yeah yeah well there is an

400
00:16:33,649 --> 00:16:36,829
answer to that but it does take a little

401
00:16:35,389 --> 00:16:38,509
bit of digging through the literature it

402
00:16:36,830 --> 00:16:42,650
takes a little knowledge of its the old

403
00:16:38,509 --> 00:16:45,169
problem isn't it it's so easy to for our

404
00:16:42,649 --> 00:16:47,209
opposition if we might use that word to

405
00:16:45,169 --> 00:16:50,929
come up with statements and claims and

406
00:16:47,210 --> 00:16:52,780
everything and so difficult to properly

407
00:16:50,929 --> 00:16:57,019
address those in a short amount of time

408
00:16:52,779 --> 00:16:58,819
difficult videos complicated disorder is

409
00:16:57,019 --> 00:17:00,980
a short amount of time yes yeah

410
00:16:58,820 --> 00:17:03,140
sometimes the answers aren't that

411
00:17:00,980 --> 00:17:05,809
difficult but they're more lengthy it's

412
00:17:03,139 --> 00:17:08,059
very easy to say X didn't happen yeah or

413
00:17:05,809 --> 00:17:10,970
x is impossible and then it takes you a

414
00:17:08,059 --> 00:17:13,190
lot longer to explain why X as possible

415
00:17:10,970 --> 00:17:14,890
my ex did happen and here's a plausible

416
00:17:13,190 --> 00:17:18,289
scenario for how it happened it cetera

417
00:17:14,890 --> 00:17:21,829
and so it's you know dealing with the

418
00:17:18,289 --> 00:17:24,109
creationists is is a challenging I I

419
00:17:21,828 --> 00:17:26,599
think a lot of people are find this

420
00:17:24,109 --> 00:17:28,549
rather fun you you hear these answers

421
00:17:26,599 --> 00:17:29,659
you think hmm I don't know the answer

422
00:17:28,549 --> 00:17:31,909
that I'm going to do a little bit of

423
00:17:29,660 --> 00:17:34,310
research and find out rush which is what

424
00:17:31,910 --> 00:17:36,529
got me into studying this I tonic of

425
00:17:34,309 --> 00:17:41,179
course it don't ask me how many decades

426
00:17:36,529 --> 00:17:43,549
ago how many decades ago many do hi do I

427
00:17:41,180 --> 00:17:48,529
have to take off my shoes and count I

428

00:17:43,549 --> 00:17:50,000
ran out of fingers okay um so so we do a

429
00:17:48,529 --> 00:17:52,099
creation and evolution toward grand

430
00:17:50,000 --> 00:17:54,440
canyon and we really enjoy the heck out

431
00:17:52,099 --> 00:17:57,019
of it number one how could you not enjoy

432
00:17:54,440 --> 00:17:59,480
the canyon eight but number two it's it

433
00:17:57,019 --> 00:18:01,910
is we get a lot of science done we

434
00:17:59,480 --> 00:18:03,559
really we really talk about science a

435
00:18:01,910 --> 00:18:04,880
lot and people are interested in science

436
00:18:03,559 --> 00:18:07,220
if they're all a bunch of science fans

437
00:18:04,880 --> 00:18:09,650
how many people company you only street

438
00:18:07,220 --> 00:18:12,589
it's a total of 24 that's a nice number

439
00:18:09,650 --> 00:18:13,890
yeah wuts ur dad includes it's two boats

440
00:18:12,589 --> 00:18:16,259
of 12 each

441
00:18:13,890 --> 00:18:20,940
so it's not you know grossly crowded no

442
00:18:16,259 --> 00:18:23,069

and there's plenty of room and the we

443

00:18:20,940 --> 00:18:25,610
travel with a I'll put in a little plug

444

00:18:23,069 --> 00:18:29,509
for our outfit rather with a commercial

445

00:18:25,609 --> 00:18:32,509
outfit called mochi Mac which is a

446

00:18:29,509 --> 00:18:36,180
family-owned outfitter that has been on

447

00:18:32,509 --> 00:18:37,920
they've been on the river for decades to

448

00:18:36,180 --> 00:18:41,160
the father they know what they're doing

449

00:18:37,920 --> 00:18:43,590
boy go do they ever and they have

450

00:18:41,160 --> 00:18:46,110
delicious food and their very safety

451

00:18:43,589 --> 00:18:48,539
conscious so you don't you don't eat the

452

00:18:46,109 --> 00:18:52,219
snakes then know that little pink

453

00:18:48,539 --> 00:18:54,899
rattler no it was a as a matter of fact

454

00:18:52,220 --> 00:18:56,759
our boat then made sure you know that

455

00:18:54,900 --> 00:18:58,080
every okay everybody come on over and

456

00:18:56,759 --> 00:18:59,670
look at it it's an interesting bit of

457
00:18:58,079 --> 00:19:02,429
Natural History and now we leave it

458
00:18:59,670 --> 00:19:04,769
alone hmm because this is its house yeah

459
00:19:02,430 --> 00:19:08,070
we go to the other side of the camp we

460
00:19:04,769 --> 00:19:10,289
had stopped for lunch and in we had

461
00:19:08,069 --> 00:19:12,329
stopped for lunch at what is sometimes

462
00:19:10,289 --> 00:19:14,039
used as a camping site for smaller

463
00:19:12,329 --> 00:19:18,720
groups than ours and there was a little

464
00:19:14,039 --> 00:19:22,259
shady area over near the coastline of

465
00:19:18,720 --> 00:19:26,460
the or the beach area and there was this

466
00:19:22,259 --> 00:19:28,470
little snake getting out of the hot Sun

467
00:19:26,460 --> 00:19:32,910
or the day mad dogs and englishmen

468
00:19:28,470 --> 00:19:34,710
staying out of the Sun and him being

469
00:19:32,910 --> 00:19:36,509
smarter than mad dog cities but he was

470
00:19:34,710 --> 00:19:38,009
staying out of the Sun and so we all

471
00:19:36,509 --> 00:19:39,869
very politely took a look and didn't

472
00:19:38,009 --> 00:19:44,069
disturb it at all and so they're very

473
00:19:39,869 --> 00:19:47,569
conscious of Natural History they and

474
00:19:44,069 --> 00:19:50,069
our the people who raft with us are also

475
00:19:47,569 --> 00:19:52,960
really concerned about the environment

476
00:19:50,069 --> 00:19:55,119
concerned about

477
00:19:52,960 --> 00:19:59,288
about the creation/evolution problem

478
00:19:55,119 --> 00:20:01,509
they love science and our mochi mac the

479
00:19:59,288 --> 00:20:05,379
company that we have gone with every

480
00:20:01,509 --> 00:20:09,069
trip of ours is very cognizant of

481
00:20:05,380 --> 00:20:11,799
leaving the campsites and leaving the

482
00:20:09,069 --> 00:20:13,569
areas that we visit at least as good as

483
00:20:11,798 --> 00:20:16,359
when we found them but most likely

484
00:20:13,569 --> 00:20:19,329
better so you know we always pick up any

485

00:20:16,359 --> 00:20:21,069
any if there's any possible literate out

486
00:20:19,329 --> 00:20:22,778
we always just leave a pristine camp and

487
00:20:21,069 --> 00:20:24,250
it's a matter of pride for our group so

488
00:20:22,778 --> 00:20:26,740
we have we have a great well if you've

489
00:20:24,250 --> 00:20:29,409
been doing this for 10 years plus I

490
00:20:26,740 --> 00:20:32,048
think that speaks volumes and you I can

491
00:20:29,409 --> 00:20:33,730
tell I can't wait exactly folks you

492
00:20:32,048 --> 00:20:35,829
should see geez almost jumping out of

493
00:20:33,730 --> 00:20:40,089
the chair to get there again it must be

494
00:20:35,829 --> 00:20:42,009
just wonderful it is just the most it's

495
00:20:40,089 --> 00:20:45,189
the highlight of my year and how long is

496
00:20:42,009 --> 00:20:47,440
the truth it is eight days that's not it

497
00:20:45,190 --> 00:20:48,700
is very that's nice that that's not too

498
00:20:47,440 --> 00:20:52,570
short not to long and so that's nice

499
00:20:48,700 --> 00:20:54,819

it's um it's definitely it's like car

500

00:20:52,569 --> 00:20:56,918

camping because you know you can bring a

501

00:20:54,819 --> 00:20:58,148

tent you can bring them all your camping

502

00:20:56,919 --> 00:20:59,919

gear well you don't actually need

503

00:20:58,148 --> 00:21:02,918

camping has somebody else cooks for you

504

00:20:59,919 --> 00:21:04,750

oh wow this is very nice but you know

505

00:21:02,919 --> 00:21:06,100

you bring your personal stuff and you

506

00:21:04,750 --> 00:21:08,648

can bring your big Matt you're not

507

00:21:06,099 --> 00:21:10,349

you're not you're not backpacking you

508

00:21:08,648 --> 00:21:14,619

don't have to worry about weight right

509

00:21:10,349 --> 00:21:16,298

so you can you know you can bring your

510

00:21:14,619 --> 00:21:18,189

big fancy camera if you want you can you

511

00:21:16,298 --> 00:21:19,839

can bring them bring heavy stuff if you

512

00:21:18,190 --> 00:21:22,269

want to because you just put it in the

513

00:21:19,839 --> 00:21:24,808

boat and the boats damn big that there's

514
00:21:22,269 --> 00:21:28,329
really no you know no problem with with

515
00:21:24,808 --> 00:21:30,099
volume so while so it's it's you know

516
00:21:28,329 --> 00:21:32,288
it's camping but it's car camping rather

517
00:21:30,099 --> 00:21:35,798
than backpacking so it's pretty plush

518
00:21:32,288 --> 00:21:38,048
they bring chairs they really did its

519
00:21:35,798 --> 00:21:40,000
way so we have we have these nice canvas

520
00:21:38,048 --> 00:21:41,769
chairs to sit on it we get off about

521
00:21:40,000 --> 00:21:43,929
Italy and so it's very comfy and very

522
00:21:41,769 --> 00:21:46,230
comfy indeed what a white boy what a way

523
00:21:43,929 --> 00:21:49,840
what a way to see the Grand Canyon and

524
00:21:46,230 --> 00:21:52,210
so a very quick plug before we get on to

525
00:21:49,839 --> 00:21:53,859
chat about other things that information

526
00:21:52,210 --> 00:21:56,528
about that trip which is every year is

527
00:21:53,859 --> 00:21:58,599
available for you we will soon be

528
00:21:56,528 --> 00:22:01,599
posting and say we're recording this in

529
00:21:58,599 --> 00:22:03,398
early July just before Tam so we haven't

530
00:22:01,599 --> 00:22:04,519
posted it yet we'll post it right after

531
00:22:03,398 --> 00:22:07,278
our

532
00:22:04,519 --> 00:22:09,739
our current trip so people don't get

533
00:22:07,278 --> 00:22:12,558
confused but next year's trip will be

534
00:22:09,739 --> 00:22:15,169
July fifteenth through July 23rd so

535
00:22:12,558 --> 00:22:18,019
almost the same dates as this year okay

536
00:22:15,169 --> 00:22:19,519
and listeners have a year to get

537
00:22:18,019 --> 00:22:22,848
themselves together or less than here

538
00:22:19,519 --> 00:22:24,588
really when do you like to have you need

539
00:22:22,848 --> 00:22:27,499
your numbers you need the book well we

540
00:22:24,588 --> 00:22:29,958
um a few months in advance I automatic

541
00:22:27,499 --> 00:22:32,899
Oh several months settlement okay okay

542

00:22:29,959 --> 00:22:35,028
you it start it starts filling up the

543
00:22:32,898 --> 00:22:38,449
you know january-february okay only

544
00:22:35,028 --> 00:22:40,669
person and if you really want to be sure

545
00:22:38,450 --> 00:22:42,828
you have a seat yes especially if you're

546
00:22:40,669 --> 00:22:45,320
coming with a friend or two yes then you

547
00:22:42,828 --> 00:22:49,190
should probably check our website which

548
00:22:45,319 --> 00:22:51,259
is ncaa.com and just in the search box

549
00:22:49,190 --> 00:22:54,019
put Grand Canyon it'll pop up that's

550
00:22:51,259 --> 00:22:57,889
excellent and so just follow the

551
00:22:54,019 --> 00:22:59,450
instructions you can either call us give

552
00:22:57,888 --> 00:23:02,028
us a credit card sent us a check

553
00:22:59,450 --> 00:23:03,619
whatever whatever save you a seat baby

554
00:23:02,028 --> 00:23:05,179
listen now something else that's been

555
00:23:03,618 --> 00:23:07,488
now popping up lately which we were

556
00:23:05,179 --> 00:23:09,829

discussing briefly before and the

557

00:23:07,489 --> 00:23:13,399

microphone was recording was interesting

558

00:23:09,828 --> 00:23:15,288

times in Tennessee indeed you know it's

559

00:23:13,398 --> 00:23:18,378

funny I was remembering the last time I

560

00:23:15,288 --> 00:23:20,239

was on your program and that we had just

561

00:23:18,378 --> 00:23:22,488

started the climate change initiative

562

00:23:20,239 --> 00:23:25,578

and we had just hired mark McCaffrey our

563

00:23:22,489 --> 00:23:28,608

climate change their number and we were

564

00:23:25,578 --> 00:23:31,038

just gearing up the lab I try to

565

00:23:28,608 --> 00:23:32,928

remember when we tape but the january i

566

00:23:31,038 --> 00:23:35,058

think i was speaking in in january i

567

00:23:32,929 --> 00:23:37,429

think i think the new website had just

568

00:23:35,058 --> 00:23:39,950

gone like was fixing to go live very

569

00:23:37,429 --> 00:23:42,379

quickly and so we were very excited

570

00:23:39,950 --> 00:23:44,450

about that and we still are and talk

571
00:23:42,378 --> 00:23:47,088
about prescient i mean here we are we've

572
00:23:44,450 --> 00:23:48,769
been known to be this evolution

573
00:23:47,088 --> 00:23:52,249
education organization for umpteen years

574
00:23:48,769 --> 00:23:53,989
and we decided we'd better add climate

575
00:23:52,249 --> 00:23:55,308
change because teachers are getting beat

576
00:23:53,989 --> 00:23:58,429
up for teach and climate change and

577
00:23:55,308 --> 00:24:01,368
guess what happens the great state of

578
00:23:58,429 --> 00:24:05,028
tennessee reintroduces a bill that we

579
00:24:01,368 --> 00:24:09,798
thought we had smacked down in 2011 but

580
00:24:05,028 --> 00:24:12,769
in 2012 the academic freedom act in

581
00:24:09,798 --> 00:24:16,210
tennessee was reintroduced and that

582
00:24:12,769 --> 00:24:20,319
spring we had a very vigorous fight

583
00:24:16,210 --> 00:24:24,610
supporting our allies in Tennessee

584
00:24:20,319 --> 00:24:26,470
teachers science organizations and now

585
00:24:24,609 --> 00:24:28,579
climate science organizations

586
00:24:26,470 --> 00:24:30,710
environmentalist organization so we were

587
00:24:28,579 --> 00:24:34,269
able to join ranks with them as well

588
00:24:30,710 --> 00:24:38,710
right because this Tennessee bill

589
00:24:34,269 --> 00:24:40,880
combines or bundles if you will

590
00:24:38,710 --> 00:24:43,360
evolution and climate changes

591
00:24:40,880 --> 00:24:46,070
controversial issues the teachers should

592
00:24:43,359 --> 00:24:48,319
single out from all other topics in the

593
00:24:46,069 --> 00:24:50,720
curriculum to teach the strengths and

594
00:24:48,319 --> 00:24:54,619
weaknesses of oh they're going down that

595
00:24:50,720 --> 00:24:57,048
road yep haha the the wording of these

596
00:24:54,619 --> 00:25:02,750
laws is always very very fascinating

597
00:24:57,048 --> 00:25:06,470
it's lots of circumlocutions shall we

598
00:25:02,750 --> 00:25:11,599
say topics that arouse debate and

599

00:25:06,470 --> 00:25:14,149
disputation well no they in science look

600
00:25:11,599 --> 00:25:16,548
evolution really doesn't arouse debate I

601
00:25:14,148 --> 00:25:18,709
mean it happened yeah living things of

602
00:25:16,548 --> 00:25:21,470
common ancestors the universe has had a

603
00:25:18,710 --> 00:25:26,569
history Noah's Flood did not carve Grand

604
00:25:21,470 --> 00:25:29,269
Canyon really and similarly with climate

605
00:25:26,569 --> 00:25:32,178
change I mean a climate that the

606
00:25:29,269 --> 00:25:33,380
scientific community is not debating

607
00:25:32,179 --> 00:25:36,019
whether the planet is getting warmer

608
00:25:33,380 --> 00:25:38,990
it's getting warmer we've got lots and

609
00:25:36,019 --> 00:25:41,929
lots of data yeah and the science

610
00:25:38,990 --> 00:25:44,210
community isn't even seriously debating

611
00:25:41,929 --> 00:25:46,460
whether people have a lot to do with

612
00:25:44,210 --> 00:25:49,038
this warming I mean that's also a done

613
00:25:46,460 --> 00:25:52,278

deal as far as science is concerned now

614

00:25:49,038 --> 00:25:55,658

these may be controversial topics in the

615

00:25:52,278 --> 00:25:59,750

general public but why would that

616

00:25:55,659 --> 00:26:01,940

dictate the curriculum you know that is

617

00:25:59,750 --> 00:26:03,679

that is letting politics determine what

618

00:26:01,940 --> 00:26:06,830

your kids learn well that's the old

619

00:26:03,679 --> 00:26:08,809

story rather than Ravenel letting good

620

00:26:06,829 --> 00:26:13,819

scholarship you just watch your kids

621

00:26:08,808 --> 00:26:16,129

learn yeah and it's it's almost too easy

622

00:26:13,819 --> 00:26:17,450

to say well look it's just Tennessee of

623

00:26:16,130 --> 00:26:19,340

course you know of course it would

624

00:26:17,450 --> 00:26:22,370

happen in Tennessee but I I bet it's not

625

00:26:19,339 --> 00:26:25,689

just Tennessee you are correct in fact

626

00:26:22,369 --> 00:26:28,189

not not to just you know don't dumb but

627

00:26:25,690 --> 00:26:29,330

well boys towards out listeners in

628
00:26:28,190 --> 00:26:31,100
Tennessee of course

629
00:26:29,329 --> 00:26:33,079
but there there's this tendency to think

630
00:26:31,099 --> 00:26:34,929
oh the Bible Belt yes that's what I'll

631
00:26:33,079 --> 00:26:38,720
get in there but I was getting out yeah

632
00:26:34,930 --> 00:26:39,980
thing is these academic freedom x I'm

633
00:26:38,720 --> 00:26:42,589
actually going to be talking about this

634
00:26:39,980 --> 00:26:45,650
attempt okay and so if any of your

635
00:26:42,589 --> 00:26:47,899
listeners are interested they may be by

636
00:26:45,650 --> 00:26:49,970
the time this airs there may be some

637
00:26:47,900 --> 00:26:52,070
videotapes on I guess they don't put

638
00:26:49,970 --> 00:26:56,870
them online I'm hoping I'm hoping to add

639
00:26:52,069 --> 00:26:58,460
this interview at the weekend of Tam in

640
00:26:56,869 --> 00:27:02,719
fact though we'll see okay you'll see

641
00:26:58,460 --> 00:27:06,319
i'll try anyway so there may be videos

642
00:27:02,720 --> 00:27:09,410
available that love it but there have

643
00:27:06,319 --> 00:27:11,419
been something like 40 of these academic

644
00:27:09,410 --> 00:27:16,130
freedom act type bills they're all quite

645
00:27:11,420 --> 00:27:17,960
similar they all stress academic freedom

646
00:27:16,130 --> 00:27:21,200
for teachers to teach a full range of

647
00:27:17,960 --> 00:27:23,470
views and so forth and so on they and

648
00:27:21,200 --> 00:27:27,170
who can argue the word freedom right

649
00:27:23,470 --> 00:27:29,809
critical thinking was that I'm critical

650
00:27:27,170 --> 00:27:32,860
thinking aren't you I am but now you've

651
00:27:29,809 --> 00:27:34,879
mentioned that didn't I here just lately

652
00:27:32,859 --> 00:27:38,359
something about the words critical

653
00:27:34,880 --> 00:27:41,380
thinking in Texas am i right um what

654
00:27:38,359 --> 00:27:44,629
you're hearing is a revelation that the

655
00:27:41,380 --> 00:27:48,140
Texas Republican Party state platform

656

00:27:44,630 --> 00:27:50,990
has a plank in it that's critical of

657
00:27:48,140 --> 00:27:55,580
critical thinking but the way it stated

658
00:27:50,990 --> 00:27:57,890
is very odd and it's it's probably not

659
00:27:55,579 --> 00:28:01,699
quite as awful as we'd like to believe

660
00:27:57,890 --> 00:28:03,710
okay in the sense that it's very

661
00:28:01,700 --> 00:28:05,090
frustrating what some of the political

662
00:28:03,710 --> 00:28:07,309
parties have done with science over the

663
00:28:05,089 --> 00:28:10,009
years and that would certainly be a very

664
00:28:07,309 --> 00:28:11,809
good example but I'm trying to remember

665
00:28:10,009 --> 00:28:13,700
exactly how it was worded I think well

666
00:28:11,809 --> 00:28:16,309
it did not bring glory to thee I think

667
00:28:13,700 --> 00:28:19,039
it takes if people just to run a search

668
00:28:16,309 --> 00:28:20,269
for Republican Party Texas and critical

669
00:28:19,039 --> 00:28:23,059
I'll probably find the reference i'm

670
00:28:20,269 --> 00:28:25,009

talking about but that that sort of

671

00:28:23,059 --> 00:28:27,200

brings up another point which only just

672

00:28:25,009 --> 00:28:29,629

occurred to me as you were speaking how

673

00:28:27,200 --> 00:28:31,309

would you gauge the last three and a

674

00:28:29,630 --> 00:28:33,530

half years of the change of

675

00:28:31,309 --> 00:28:35,240

administration in this country when we

676

00:28:33,529 --> 00:28:37,190

talk about science and science education

677

00:28:35,240 --> 00:28:39,349

has there been a difference have you

678

00:28:37,190 --> 00:28:41,340

noticed a difference in because everyone

679

00:28:39,349 --> 00:28:45,179

used to say all the republicans had this

680

00:28:41,339 --> 00:28:48,000

war on science right there's science and

681

00:28:45,180 --> 00:28:52,170

science education in terms of the

682

00:28:48,000 --> 00:28:57,200

various agencies in the United States

683

00:28:52,170 --> 00:29:00,150

that deal with science like energy and

684

00:28:57,200 --> 00:29:02,730

interior and there's lots and lots and

685
00:29:00,150 --> 00:29:04,710
lots of federal government agencies that

686
00:29:02,730 --> 00:29:07,500
employ scientists and where scientific

687
00:29:04,710 --> 00:29:10,789
work is done the US Geological Survey

688
00:29:07,500 --> 00:29:13,829
Fish and Game type people lots of stuff

689
00:29:10,789 --> 00:29:16,109
they are much happier because there's

690
00:29:13,829 --> 00:29:19,169
much less pressure to come up with the

691
00:29:16,109 --> 00:29:20,969
right answer really then this was one of

692
00:29:19,170 --> 00:29:23,160
the major criticisms of the previous

693
00:29:20,970 --> 00:29:25,769
administration there was political

694
00:29:23,160 --> 00:29:27,840
pressure on the products that these

695
00:29:25,769 --> 00:29:30,900
scientists in the civil service were

696
00:29:27,839 --> 00:29:35,299
directed to produce Environmental

697
00:29:30,900 --> 00:29:37,680
Protection Agency and just down the line

698
00:29:35,299 --> 00:29:39,569
that is not happening under the current

699

00:29:37,680 --> 00:29:41,250
administration which makes the

700

00:29:39,569 --> 00:29:45,059
scientists the Civil Service scientists

701

00:29:41,250 --> 00:29:48,359
feel much happier blow jobs in terms of

702

00:29:45,059 --> 00:29:50,940
science education that hasn't been much

703

00:29:48,359 --> 00:29:53,490
different because the federal government

704

00:29:50,940 --> 00:29:56,160
has hardly anything to do it curriculum

705

00:29:53,490 --> 00:29:58,620
right one one of the things that I

706

00:29:56,160 --> 00:30:00,540
always have to explain to people from

707

00:29:58,619 --> 00:30:03,149
outside the United States and many of

708

00:30:00,539 --> 00:30:09,230
your listeners obviously are is that we

709

00:30:03,150 --> 00:30:11,190
have a an amazingly decentralized

710

00:30:09,230 --> 00:30:14,490
education system compared to other

711

00:30:11,190 --> 00:30:18,059
developed countries basically we have

712

00:30:14,490 --> 00:30:20,700
the school district as the locus for

713

00:30:18,059 --> 00:30:23,039
decision making it's the district that

714
00:30:20,700 --> 00:30:24,840
decides who can teach there how much

715
00:30:23,039 --> 00:30:27,480
they're going to pay them what their job

716
00:30:24,839 --> 00:30:30,959
duties are etc etc the state can have

717
00:30:27,480 --> 00:30:34,220
some influence on how many hours a year

718
00:30:30,960 --> 00:30:36,750
a student has to be in class but you can

719
00:30:34,220 --> 00:30:38,160
change that for how many of the local

720
00:30:36,750 --> 00:30:40,170
district can decide how many hours per

721
00:30:38,160 --> 00:30:41,970
day etc there I mean there are health

722
00:30:40,170 --> 00:30:43,860
and safety kinds of regulations that the

723
00:30:41,970 --> 00:30:46,650
state can impose on it is right right

724
00:30:43,859 --> 00:30:49,979
but by and large the state doesn't have

725
00:30:46,650 --> 00:30:52,680
very much control over curriculum now

726
00:30:49,980 --> 00:30:54,179
ironically enough it was under

727
00:30:52,680 --> 00:30:57,370

Republican

728

00:30:54,179 --> 00:31:01,150

mr. bush the second the last two terms

729

00:30:57,369 --> 00:31:03,009

that he served where that had started to

730

00:31:01,150 --> 00:31:06,250

change and of course it's ironic because

731

00:31:03,009 --> 00:31:08,710

the Republicans are the are very strong

732

00:31:06,250 --> 00:31:11,470

proponents of this decentralized local

733

00:31:08,710 --> 00:31:13,360

control of education but it was really

734

00:31:11,470 --> 00:31:18,269

because of the advent of the No Child

735

00:31:13,359 --> 00:31:22,269

Left Behind education law of 2001 that

736

00:31:18,269 --> 00:31:26,230

required frequent testing of students at

737

00:31:22,269 --> 00:31:31,839

certain grade levels teachers referred

738

00:31:26,230 --> 00:31:33,579

to it as No Child Left untested and if

739

00:31:31,839 --> 00:31:34,869

you're going to test kids at regular

740

00:31:33,579 --> 00:31:37,119

intervals what are you going to test a

741

00:31:34,869 --> 00:31:38,829

month well the state science education

742
00:31:37,119 --> 00:31:43,509
or the state history of the state math

743
00:31:38,829 --> 00:31:46,558
education standards then sort of evolved

744
00:31:43,509 --> 00:31:49,150
from being largely advisory to being

745
00:31:46,558 --> 00:31:51,099
more mandatory sort of with a big thumb

746
00:31:49,150 --> 00:31:54,490
on the scale the local district could

747
00:31:51,099 --> 00:31:56,529
choose not to teach the state standards

748
00:31:54,490 --> 00:31:58,779
but their kids still had to be tested on

749
00:31:56,529 --> 00:32:01,058
the state standards so it behooves them

750
00:31:58,779 --> 00:32:02,829
to have the kids study with the kit what

751
00:32:01,058 --> 00:32:04,599
they were going to be tested on which

752
00:32:02,829 --> 00:32:07,119
means that the state standards became

753
00:32:04,599 --> 00:32:09,909
much more important locally so the

754
00:32:07,119 --> 00:32:12,579
standards movement which I fully support

755
00:32:09,910 --> 00:32:14,950
is started to get more traction

756
00:32:12,579 --> 00:32:17,798
ironically enough under the local

757
00:32:14,950 --> 00:32:19,450
control fans of the Bush administration

758
00:32:17,798 --> 00:32:21,789
but it's because of the No Child Left

759
00:32:19,450 --> 00:32:24,730
Behind frequent testing phenomenon that

760
00:32:21,789 --> 00:32:27,668
took place which is kind of amusing so

761
00:32:24,730 --> 00:32:31,179
where we are today actually is kind of

762
00:32:27,669 --> 00:32:32,650
interesting because again people have

763
00:32:31,179 --> 00:32:34,870
gotten used to the idea of State

764
00:32:32,650 --> 00:32:38,350
Standards and they don't freak out so

765
00:32:34,869 --> 00:32:41,649
badly as they used to and in English

766
00:32:38,349 --> 00:32:43,889
language arts and mathematics now as of

767
00:32:41,650 --> 00:32:46,809
the last couple of years there are

768
00:32:43,890 --> 00:32:49,179
national science education standards

769
00:32:46,808 --> 00:32:53,589
which have been voluntarily adopted

770

00:32:49,179 --> 00:32:56,650
really by 48 of the states Wow Texas and

771
00:32:53,589 --> 00:32:59,500
Alaska opted out Texas Alaska what a

772
00:32:56,650 --> 00:33:02,230
surprise why would imagine those well I

773
00:32:59,500 --> 00:33:03,789
never done but I'm thinking they're the

774
00:33:02,230 --> 00:33:06,610
two biggest states and they're so far

775
00:33:03,789 --> 00:33:09,308
apart what can listen well

776
00:33:06,609 --> 00:33:11,740
of course Alaska's big but it's not very

777
00:33:09,308 --> 00:33:16,329
populous that's true Texas is big and

778
00:33:11,740 --> 00:33:18,370
populous but many have it so so there's

779
00:33:16,329 --> 00:33:21,369
going to be some regularity and at least

780
00:33:18,369 --> 00:33:24,159
the instruction of mathematics and in

781
00:33:21,369 --> 00:33:28,209
English language arts across the 48

782
00:33:24,160 --> 00:33:33,308
states anyway 48 of the states and as we

783
00:33:28,210 --> 00:33:35,650
speak in July of 2012 there is currently

784
00:33:33,308 --> 00:33:38,769

under construction national science

785

00:33:35,650 --> 00:33:43,840

education standards sucker now these are

786

00:33:38,769 --> 00:33:45,160

standards that were initially the

787

00:33:43,839 --> 00:33:46,569

blueprint shall we say for these

788

00:33:45,160 --> 00:33:49,960

standards was developed by the National

789

00:33:46,569 --> 00:33:52,298

Academy of Sciences and the National

790

00:33:49,960 --> 00:33:54,579

Science Teachers Association so they had

791

00:33:52,298 --> 00:33:56,470

blue ribbon panels kind of writing these

792

00:33:54,579 --> 00:33:58,000

this this is the these are the

793

00:33:56,470 --> 00:34:03,819

parameters you need to consider and then

794

00:33:58,000 --> 00:34:06,279

that framework was given to a nonprofit

795

00:34:03,819 --> 00:34:08,259

organization to actually put pen to

796

00:34:06,279 --> 00:34:11,230

paper and construct the actual standards

797

00:34:08,260 --> 00:34:14,649

for each grade and the content and so

798

00:34:11,230 --> 00:34:16,898

forth so it's very interesting because

799

00:34:14,648 --> 00:34:21,659
the math and English language arts

800

00:34:16,898 --> 00:34:25,329
standards were adopted quite quickly by

801

00:34:21,659 --> 00:34:27,730
vast majority of states the science

802

00:34:25,329 --> 00:34:30,398
education standards have only been

803

00:34:27,730 --> 00:34:31,659
signed on to it shall we say and of

804

00:34:30,398 --> 00:34:36,368
course they haven't been finished yet

805

00:34:31,659 --> 00:34:38,980
but there are only 27 states that have

806

00:34:36,369 --> 00:34:40,899
expressed an interest in helping to

807

00:34:38,980 --> 00:34:42,490
develop national science education

808

00:34:40,898 --> 00:34:45,159
standards and then they would presumably

809

00:34:42,489 --> 00:34:48,128
adopt them and once they are developed

810

00:34:45,159 --> 00:34:49,990
and they can we predict on the map where

811

00:34:48,128 --> 00:34:52,898
some of these kids might be or is it yes

812

00:34:49,989 --> 00:34:54,638
not really not really because it's sort

813
00:34:52,898 --> 00:34:57,429
of varies i mean it they are kind of all

814
00:34:54,639 --> 00:34:59,130
over the map and I mean I I don't want

815
00:34:57,429 --> 00:35:02,469
to make too big a point of this because

816
00:34:59,130 --> 00:35:04,079
these are all multivariate browse right

817
00:35:02,469 --> 00:35:08,349
and so there's always more than one

818
00:35:04,079 --> 00:35:10,090
causative variable but I mean some

819
00:35:08,349 --> 00:35:11,559
states might be very interested in the

820
00:35:10,090 --> 00:35:15,789
standards but just didn't have the money

821
00:35:11,559 --> 00:35:17,230
to sort of direct staff to spend time

822
00:35:15,789 --> 00:35:19,210
doing this rather than doing something

823
00:35:17,230 --> 00:35:22,818
else that because you know

824
00:35:19,210 --> 00:35:25,429
but I firmly believe that a lot of

825
00:35:22,818 --> 00:35:27,288
states are kind of hanging back on the

826
00:35:25,429 --> 00:35:29,480
science ed standards even though they

827

00:35:27,289 --> 00:35:32,349
signed up on math and they signed up on

828
00:35:29,480 --> 00:35:34,760
English language they're holding back on

829
00:35:32,349 --> 00:35:35,869
science standards because they want to

830
00:35:34,760 --> 00:35:37,960
see what they're going to do with

831
00:35:35,869 --> 00:35:41,390
evolution and with climate change

832
00:35:37,960 --> 00:35:43,608
because those are the touchy issues and

833
00:35:41,389 --> 00:35:46,129
of course the framework that the

834
00:35:43,608 --> 00:35:49,190
National Academy came out with is very

835
00:35:46,130 --> 00:35:51,230
strong on evolution and it's got climate

836
00:35:49,190 --> 00:35:53,358
change scattered throughout I mean it

837
00:35:51,230 --> 00:35:58,190
both of these topics are treated in a

838
00:35:53,358 --> 00:36:02,480
very responsible manner now I've I have

839
00:35:58,190 --> 00:36:05,778
seen the drafts of the the first draft

840
00:36:02,480 --> 00:36:07,690
of the science education standards as

841
00:36:05,778 --> 00:36:09,650

they've come out of this nonprofit

842

00:36:07,690 --> 00:36:13,400

organization that's constructing them

843

00:36:09,650 --> 00:36:17,470

it's not a secret I mean they have been

844

00:36:13,400 --> 00:36:17,470

made available for public commentary and

845

00:36:18,639 --> 00:36:22,909

Mark McCaffrey is much happier with the

846

00:36:21,318 --> 00:36:24,079

treatment of climate change than I am

847

00:36:22,909 --> 00:36:26,449

with the treatment of everything oh

848

00:36:24,079 --> 00:36:29,809

really yeah number of things that they

849

00:36:26,449 --> 00:36:32,719

have to fix but with climate change for

850

00:36:29,809 --> 00:36:34,160

example there are lots of references to

851

00:36:32,719 --> 00:36:36,769

global warming there's lots of

852

00:36:34,159 --> 00:36:38,899

references to principles and concepts of

853

00:36:36,769 --> 00:36:40,369

climate change and this is a middle

854

00:36:38,900 --> 00:36:42,798

school that's in high school it's an

855

00:36:40,369 --> 00:36:44,990

earth science it's in ecology and

856
00:36:42,798 --> 00:36:46,788
biology so you know it's nicely

857
00:36:44,989 --> 00:36:50,028
distributed throughout is the argument

858
00:36:46,789 --> 00:36:52,069
coming up from the opponents of climate

859
00:36:50,028 --> 00:36:54,500
change that oh it's just a theory are

860
00:36:52,068 --> 00:36:57,650
they using that line you know it's that

861
00:36:54,500 --> 00:37:01,190
they're not using that line but they're

862
00:36:57,650 --> 00:37:04,010
using the basic concept that oh it's

863
00:37:01,190 --> 00:37:06,740
it's not valid science so it's only just

864
00:37:04,010 --> 00:37:08,420
the some scientists think well then that

865
00:37:06,739 --> 00:37:11,629
sort of thing that's like and what's

866
00:37:08,420 --> 00:37:13,670
rather upsetting about the anti global

867
00:37:11,630 --> 00:37:17,410
warming that the climate the climate

868
00:37:13,670 --> 00:37:20,000
change denial ists if you will is the

869
00:37:17,409 --> 00:37:22,759
the ad hominem attacks against

870
00:37:20,000 --> 00:37:24,650
scientists that's nothing new is it yeah

871
00:37:22,760 --> 00:37:27,680
well but it's it's particularly vicious

872
00:37:24,650 --> 00:37:30,280
I agree I agree I mean I know there's

873
00:37:27,679 --> 00:37:32,589
people have been very strongly motivated

874
00:37:30,280 --> 00:37:36,100
passions run high and many issues but on

875
00:37:32,590 --> 00:37:38,500
this issue it's why I suppose I normally

876
00:37:36,099 --> 00:37:40,179
don't bring it up on the skeptics are

877
00:37:38,500 --> 00:37:44,260
not very much as my listeners know

878
00:37:40,179 --> 00:37:46,000
because that the vile venom and and the

879
00:37:44,260 --> 00:37:49,210
the frothing of the mouths of some

880
00:37:46,000 --> 00:37:51,070
people I don't understand it I don't get

881
00:37:49,210 --> 00:37:54,400
that kind of passion for something like

882
00:37:51,070 --> 00:37:57,400
this when I was talking about the the ad

883
00:37:54,400 --> 00:38:02,079
hominem remarks I was thinking

884

00:37:57,400 --> 00:38:05,170
specifically of the claims that oh those

885
00:38:02,079 --> 00:38:07,809
climate scientists who are promoting the

886
00:38:05,170 --> 00:38:09,610
hoax of global warming they're just

887
00:38:07,809 --> 00:38:10,869
doing it to keep the research bucks

888
00:38:09,610 --> 00:38:12,309
that's it that's it that's where they

889
00:38:10,869 --> 00:38:14,079
get their money they have to do this to

890
00:38:12,309 --> 00:38:16,539
you so there and they know it's not true

891
00:38:14,079 --> 00:38:18,039
but they're doing it anyway they serve

892
00:38:16,539 --> 00:38:19,779
others and of course the same thing was

893
00:38:18,039 --> 00:38:21,759
said about evolution which was even more

894
00:38:19,780 --> 00:38:22,990
hilarious of course because you know if

895
00:38:21,760 --> 00:38:26,680
you really want to go into big bucks

896
00:38:22,989 --> 00:38:32,559
become a paleontologist right this is

897
00:38:26,679 --> 00:38:35,289
your key to wealth important happen

898
00:38:32,559 --> 00:38:36,699

that's right but so you know we'll be on

899

00:38:35,289 --> 00:38:39,039

the floor whenever we'd hear that with

900

00:38:36,699 --> 00:38:42,449

evolution now granted there is more

901

00:38:39,039 --> 00:38:44,969

federal research money that goes into

902

00:38:42,449 --> 00:38:48,219

climate prediction climate modeling

903

00:38:44,969 --> 00:38:50,709

because it's really important if you're

904

00:38:48,219 --> 00:38:53,139

going to grow crops in the Midwest hmm

905

00:38:50,710 --> 00:38:55,269

right you need to know what weather

906

00:38:53,139 --> 00:38:59,190

patterns are likely to be happening in

907

00:38:55,269 --> 00:39:01,900

the next five years because that may

908

00:38:59,190 --> 00:39:03,550

have a very strong influence on what

909

00:39:01,900 --> 00:39:06,280

kinds of crops you might advise from

910

00:39:03,550 --> 00:39:07,660

just a row and do you I mean we need to

911

00:39:06,280 --> 00:39:10,660

know whether this is happening there's

912

00:39:07,659 --> 00:39:14,500

some very important the military needs

913
00:39:10,659 --> 00:39:19,299
to know about climate change and because

914
00:39:14,500 --> 00:39:23,800
if indeed the the predictions are even

915
00:39:19,300 --> 00:39:26,800
only half as dire as the mainstream

916
00:39:23,800 --> 00:39:28,269
predictions are promoting that means

917
00:39:26,800 --> 00:39:31,150
that there's going to be massive

918
00:39:28,269 --> 00:39:34,090
population movements over the next ten

919
00:39:31,150 --> 00:39:36,340
years and that means a much there will

920
00:39:34,090 --> 00:39:38,230
be refugees going into other countries

921
00:39:36,340 --> 00:39:41,680
there's going to be a lot of disruption

922
00:39:38,230 --> 00:39:43,329
in many parts of the world and how is

923
00:39:41,679 --> 00:39:46,929
this going to affect

924
00:39:43,329 --> 00:39:50,259
the security of the United States and so

925
00:39:46,929 --> 00:39:51,460
what's ironic is that although the US

926
00:39:50,260 --> 00:39:53,380
military is generally considered

927

00:39:51,460 --> 00:39:54,760

considered a fairly conservative

928

00:39:53,380 --> 00:39:56,769

institution and it is a conservative

929

00:39:54,760 --> 00:39:59,380

institution they haven't become a bunch

930

00:39:56,769 --> 00:40:01,179

of you know wild ideas there's not a lot

931

00:39:59,380 --> 00:40:06,490

of pot smoking going on in the bennigan

932

00:40:01,179 --> 00:40:09,339

um they they are probably the

933

00:40:06,489 --> 00:40:12,479

institution that is taking the most

934

00:40:09,340 --> 00:40:16,630

serious look at lyman changing you find

935

00:40:12,480 --> 00:40:19,150

lots of research money and the Pentagon

936

00:40:16,630 --> 00:40:23,920

seems that a lot of money being poured

937

00:40:19,150 --> 00:40:25,809

into alternate fuels because they you

938

00:40:23,920 --> 00:40:29,829

know they realize that many parts of the

939

00:40:25,809 --> 00:40:31,119

world where we get oil are unstable and

940

00:40:29,829 --> 00:40:33,069

they're going to become more unstable if

941

00:40:31,119 --> 00:40:35,500
there's famines and droughts and the

942
00:40:33,070 --> 00:40:37,809
lack of water is you know waters the

943
00:40:35,500 --> 00:40:40,090
next oil is people keep saying that is

944
00:40:37,809 --> 00:40:42,039
going to be the Liebig minimum of the

945
00:40:40,090 --> 00:40:44,350
resources that we're going to need mmm

946
00:40:42,039 --> 00:40:47,440
if the glaciers melt in the Himalayas

947
00:40:44,349 --> 00:40:50,319
the people downstream and Pakistan and

948
00:40:47,440 --> 00:40:52,240
India are going to be in really bad

949
00:40:50,320 --> 00:40:55,090
shape and monsoon season because that's

950
00:40:52,239 --> 00:40:57,669
where they get their water similarly as

951
00:40:55,090 --> 00:41:00,460
the planet warms the oceans are the

952
00:40:57,670 --> 00:41:01,809
primary heat sink for for the warmth I

953
00:41:00,460 --> 00:41:05,110
mean there's already been a huge amount

954
00:41:01,809 --> 00:41:07,269
of warmth that is come into the planet

955
00:41:05,110 --> 00:41:09,849

over the last 100 years 200 years and

956

00:41:07,269 --> 00:41:13,059

most of its gone into the oceans mmm

957

00:41:09,849 --> 00:41:15,759

well when the oceans absorb heat they

958

00:41:13,059 --> 00:41:18,789

expand and if there's going to be more

959

00:41:15,760 --> 00:41:20,830

absorption of heat by the oceans which

960

00:41:18,789 --> 00:41:22,869

is predicted that not as toasty as they

961

00:41:20,829 --> 00:41:25,509

could get that means that coastlines are

962

00:41:22,869 --> 00:41:27,279

going to change and where do most human

963

00:41:25,510 --> 00:41:29,920

beings live especially in places like

964

00:41:27,280 --> 00:41:32,110

Pakistan and India and Australia and

965

00:41:29,920 --> 00:41:34,900

Australia yeah you guys are going to

966

00:41:32,110 --> 00:41:37,329

recursively host yeah that's right so

967

00:41:34,900 --> 00:41:40,450

the US military is looking very

968

00:41:37,329 --> 00:41:42,670

seriously at alternate fuels so that

969

00:41:40,449 --> 00:41:49,949

they can continue to service the troops

970
00:41:42,670 --> 00:41:52,360
in places where there may be problems of

971
00:41:49,949 --> 00:41:55,049
human migration due to climate change

972
00:41:52,360 --> 00:41:58,410
and desperation and lack of water and so

973
00:41:55,050 --> 00:42:01,170
yeah well you have got your your plate

974
00:41:58,409 --> 00:42:03,210
full Jeanie your cup is full your plate

975
00:42:01,170 --> 00:42:06,269
is full oh heck I thought we could quit

976
00:42:03,210 --> 00:42:07,949
next month oh I guess we'll just stay in

977
00:42:06,269 --> 00:42:10,980
business then I thank you ever pointing

978
00:42:07,949 --> 00:42:14,039
that it I think you should I really

979
00:42:10,980 --> 00:42:15,900
think you should um well it's it's just

980
00:42:14,039 --> 00:42:17,789
my absolute pleasure to visit you

981
00:42:15,900 --> 00:42:20,099
whenever I can and I'm so grateful that

982
00:42:17,789 --> 00:42:21,539
you give me time every time so we can

983
00:42:20,099 --> 00:42:23,400
have a chat and I'm sure our listeners

984
00:42:21,539 --> 00:42:25,199
really appreciate your insights well

985
00:42:23,400 --> 00:42:27,809
it's such a fun show and I love being

986
00:42:25,199 --> 00:42:31,189
out up with you so y'all stop by again

987
00:42:27,809 --> 00:42:31,190
sometime Thank You Jimmy

988
00:42:35,380 --> 00:42:43,068
hey Kenny oh hi Tom I save this part

989
00:42:39,349 --> 00:42:45,500
yeah yes great weather oh look a unicorn

990
00:42:43,068 --> 00:42:48,679
unicorn there are no such things as

991
00:42:45,500 --> 00:42:50,900
unicorns silly yes there is no there

992
00:42:48,679 --> 00:42:53,989
isn't hey guys what are you arguing

993
00:42:50,900 --> 00:42:56,750
about tom thinks unicorns are real say

994
00:42:53,989 --> 00:42:59,479
so our let's look us up in the skeptics

995
00:42:56,750 --> 00:43:01,608
dictionary now what how can we do this

996
00:42:59,480 --> 00:43:03,260
in this park there is the computer here

997
00:43:01,608 --> 00:43:05,358
you guys probably don't know about the

998

00:43:03,260 --> 00:43:08,240
skeptics dictionary app available now

999
00:43:05,358 --> 00:43:11,719
for iPhone iPad and iPod touch in the

1000
00:43:08,239 --> 00:43:13,608
app store Wow cool the app lets you

1001
00:43:11,719 --> 00:43:15,289
access all of the great skeptics

1002
00:43:13,608 --> 00:43:18,650
dictionary articles when you're on the

1003
00:43:15,289 --> 00:43:21,500
go here let me look up unicorns now cool

1004
00:43:18,650 --> 00:43:23,450
Kenny prepare to be proven wrong it says

1005
00:43:21,500 --> 00:43:27,318
here the Unicorn is a creature from

1006
00:43:23,449 --> 00:43:28,818
fables aha actually I see now that

1007
00:43:27,318 --> 00:43:31,608
someone just dumped their ice cream cone

1008
00:43:28,818 --> 00:43:35,079
on that horse's head thanks skeptics

1009
00:43:31,608 --> 00:43:35,078
dictionary iphone app

1010
00:43:36,769 --> 00:43:44,000
here's Maynard spooky action at a

1011
00:43:41,550 --> 00:43:44,000
distance

1012
00:43:44,739 --> 00:43:51,199

well as I look out from the casino here

1013

00:43:48,170 --> 00:43:53,510

I see a vast wasteland with no cultural

1014

00:43:51,199 --> 00:43:56,059

identity whatsoever and as I turn around

1015

00:43:53,510 --> 00:43:58,040

I see dr. Richie dr. Reggie how are you

1016

00:43:56,059 --> 00:44:01,130

here you've got a fantastic view their

1017

00:43:58,039 --> 00:44:03,320

of the sort of tumbleweeds yeah there's

1018

00:44:01,130 --> 00:44:05,780

not much to see out my window well

1019

00:44:03,320 --> 00:44:07,700

there's there are some big mountains but

1020

00:44:05,780 --> 00:44:09,829

in between that is desert may not

1021

00:44:07,699 --> 00:44:11,539

because we're in the desert aren't we we

1022

00:44:09,829 --> 00:44:13,010

are and actually what River do we get

1023

00:44:11,539 --> 00:44:14,320

our water from is that the mighty

1024

00:44:13,010 --> 00:44:16,880

Colorado coming through the Hoover Dam

1025

00:44:14,320 --> 00:44:19,369

it is the Hoover Dam in fact the Hoover

1026

00:44:16,880 --> 00:44:22,490

Dam was specifically built to provide

1027
00:44:19,369 --> 00:44:24,320
water to Las Vegas because building a

1028
00:44:22,489 --> 00:44:26,719
casino town in the middle of a desert

1029
00:44:24,320 --> 00:44:28,460
was a pretty silly thing to do since

1030
00:44:26,719 --> 00:44:29,959
there's no water so they had to build

1031
00:44:28,460 --> 00:44:31,699
their own water supply and that was the

1032
00:44:29,960 --> 00:44:34,099
hoover dam which I think was built in

1033
00:44:31,699 --> 00:44:37,189
the 30s I think but I'm not a historian

1034
00:44:34,099 --> 00:44:40,338
yeah but you have been on the strip and

1035
00:44:37,190 --> 00:44:42,170
downtown I have in fact a couple of

1036
00:44:40,338 --> 00:44:44,179
lovely folk took me down to the strip

1037
00:44:42,170 --> 00:44:46,220
today and we in fact drove all the way

1038
00:44:44,179 --> 00:44:48,230
through the strip and out to the suburbs

1039
00:44:46,219 --> 00:44:50,299
of vegas which was really interesting

1040
00:44:48,230 --> 00:44:53,690
because as you said i had passed the

1041
00:44:50,300 --> 00:44:55,609
strip there are big estate communities

1042
00:44:53,690 --> 00:44:58,490
where all the houses are exactly the

1043
00:44:55,608 --> 00:45:00,529
same and then there'll be a kilometer of

1044
00:44:58,489 --> 00:45:02,239
nothing and then you come over a hill

1045
00:45:00,530 --> 00:45:04,579
and there's another big estate of houses

1046
00:45:02,239 --> 00:45:06,379
that all look the same and the person i

1047
00:45:04,579 --> 00:45:08,839
was with used to live in vegas and she

1048
00:45:06,380 --> 00:45:11,568
said that as a teenager growing up it

1049
00:45:08,838 --> 00:45:13,699
was awkward if you were drunk in Vegas

1050
00:45:11,568 --> 00:45:17,960
because why because everyone is well I

1051
00:45:13,699 --> 00:45:19,460
know better I'm up my face right now but

1052
00:45:17,960 --> 00:45:21,349
in the suburbs because all the houses

1053
00:45:19,460 --> 00:45:23,568
look the same if you were drunk you

1054
00:45:21,349 --> 00:45:24,890
didn't know which one was yours okay but

1055

00:45:23,568 --> 00:45:26,719
it's Vegas people put up of the night

1056
00:45:24,889 --> 00:45:28,250
well that's true I guess I don't know

1057
00:45:26,719 --> 00:45:31,129
what it's like it and look over there on

1058
00:45:28,250 --> 00:45:33,108
that farce and June I can see a guy with

1059
00:45:31,130 --> 00:45:34,519
a backpack and some googly glasses

1060
00:45:33,108 --> 00:45:36,588
that's Richard Saunders making his way

1061
00:45:34,519 --> 00:45:38,030
towards us yes I think he's making his

1062
00:45:36,588 --> 00:45:41,210
way towards us but he might be in the

1063
00:45:38,030 --> 00:45:43,010
sky with the aliens i'm not sure but he

1064
00:45:41,210 --> 00:45:45,380
was actually doing an auto to the

1065
00:45:43,010 --> 00:45:47,510
Thunder from Down Under but I think he

1066
00:45:45,380 --> 00:45:49,608
was yeah he was he was just playing the

1067
00:45:47,510 --> 00:45:51,560
part of the down under yes he was i

1068
00:45:49,608 --> 00:45:53,449
think so in one of the casinos i think

1069
00:45:51,559 --> 00:45:55,670

i'm not sure which one yeah yeah

1070

00:45:53,449 --> 00:45:57,289

interesting people I've met Playboy

1071

00:45:55,670 --> 00:46:00,079

Playmate 1999

1072

00:45:57,289 --> 00:46:01,909

apparently then down the bar earlier and

1073

00:46:00,079 --> 00:46:04,069

the reason for that is because describe

1074

00:46:01,909 --> 00:46:05,449

my shirt to the listener yes well may

1075

00:46:04,070 --> 00:46:07,789

night is wearing a lovely number this

1076

00:46:05,449 --> 00:46:10,509

evening it is a Playboy shirt which i

1077

00:46:07,789 --> 00:46:13,340

think is in celebration of 20 years of

1078

00:46:10,510 --> 00:46:15,380

labor it might even be 50 years or

1079

00:46:13,340 --> 00:46:16,610

something cuz there's some 60s there and

1080

00:46:15,380 --> 00:46:17,869

that and she was bit disappointed cuz

1081

00:46:16,610 --> 00:46:21,680

she was nineteen ninety-nine there's

1082

00:46:17,869 --> 00:46:23,449

only goes to 1995 and yes I yeah what

1083

00:46:21,679 --> 00:46:26,419

you're actually wearing is all the front

1084
00:46:23,449 --> 00:46:28,159
covers in a little pattern all over your

1085
00:46:26,420 --> 00:46:30,710
shirt with all the lovely ladies going

1086
00:46:28,159 --> 00:46:31,789
back 50 years I'm it's gonna wit because

1087
00:46:30,710 --> 00:46:33,679
you'll be standing somewhere and you'll

1088
00:46:31,789 --> 00:46:35,719
have people behind you going oh I got

1089
00:46:33,679 --> 00:46:37,099
that one look at that all right I got

1090
00:46:35,719 --> 00:46:39,829
that one and they're never talking about

1091
00:46:37,099 --> 00:46:41,869
me right does that happen in do that

1092
00:46:39,829 --> 00:46:44,779
what happen in vegas not in you know

1093
00:46:41,869 --> 00:46:46,460
newcastle what it may not look lots of

1094
00:46:44,780 --> 00:46:48,260
stuff happens in your castle newcastle

1095
00:46:46,460 --> 00:46:50,179
west i will not hear a word against it

1096
00:46:48,260 --> 00:46:52,070
okay i won't we won't talk about it

1097
00:46:50,179 --> 00:46:53,779
we're here to in vegas to celebrate town

1098
00:46:52,070 --> 00:46:55,370
so we won't talk about Newcastle shall

1099
00:46:53,780 --> 00:46:57,290
we know what are you doing there you've

1100
00:46:55,369 --> 00:46:58,670
got your um your browser open and you're

1101
00:46:57,289 --> 00:47:00,139
mainly looking at like pictures of like

1102
00:46:58,670 --> 00:47:01,250
really cut soccer players but I

1103
00:47:00,139 --> 00:47:03,710
shouldn't you be doing something about

1104
00:47:01,250 --> 00:47:05,239
here talk yeah no I'm just tweaking my

1105
00:47:03,710 --> 00:47:07,449
talk I'm doing a workshop tomorrow

1106
00:47:05,239 --> 00:47:10,099
afternoon or tomorrow morning actually

1107
00:47:07,449 --> 00:47:11,659
and I'm you know that thing where the

1108
00:47:10,099 --> 00:47:13,369
last minute before you present you know

1109
00:47:11,659 --> 00:47:14,569
I just read that thing the other day on

1110
00:47:13,369 --> 00:47:17,119
the internet I better add that to my

1111
00:47:14,570 --> 00:47:18,650
talk so I'm in that phase right now and

1112

00:47:17,119 --> 00:47:20,929
you're doing a dr. Harriet halt who I am

1113
00:47:18,650 --> 00:47:22,940
yes it's a workshop with dr. Harriet

1114
00:47:20,929 --> 00:47:25,549
whole dr. Steven novella and dr. David

1115
00:47:22,940 --> 00:47:27,530
Gorski and we're talking about diagnosis

1116
00:47:25,550 --> 00:47:29,690
by dr. google and how to find reliable

1117
00:47:27,530 --> 00:47:31,430
health information on the internet now

1118
00:47:29,690 --> 00:47:33,050
dr. Steve novella of course skeptics

1119
00:47:31,429 --> 00:47:35,389
guide to the University senior ologist

1120
00:47:33,050 --> 00:47:38,330
he is a neurologist yes that means he's

1121
00:47:35,389 --> 00:47:40,460
extremely paranoid about medicine um yes

1122
00:47:38,329 --> 00:47:42,500
if that you could interpret it that way

1123
00:47:40,460 --> 00:47:44,030
or he could do stuff to do with the

1124
00:47:42,500 --> 00:47:45,409
brain and the central nervous system

1125
00:47:44,030 --> 00:47:47,360
because I try it when he was in

1126
00:47:45,409 --> 00:47:50,059

Australia I tried to get him to find out

1127

00:47:47,360 --> 00:47:51,590

if neurologist looked down on thoracic

1128

00:47:50,059 --> 00:47:53,509

surgeons who looked down on

1129

00:47:51,590 --> 00:47:55,579

dermatologists what the pecking order is

1130

00:47:53,510 --> 00:47:56,870

you reckon that's true or not I don't

1131

00:47:55,579 --> 00:47:58,789

know who did you get him to answer that

1132

00:47:56,869 --> 00:48:01,690

question may not know he wouldn't answer

1133

00:47:58,789 --> 00:48:04,880

it but he did talk about quantum

1134

00:48:01,690 --> 00:48:06,440

entanglement he did did he well and the

1135

00:48:04,880 --> 00:48:08,090

great thing is I've actually got an

1136

00:48:06,440 --> 00:48:09,338

interview with a las vegas cab driver

1137

00:48:08,090 --> 00:48:11,499

talking about quantum

1138

00:48:09,338 --> 00:48:13,478

engelmann after I'd been to the Penn &

1139

00:48:11,498 --> 00:48:15,998

Teller show and after I've had quite a

1140

00:48:13,478 --> 00:48:18,098

few drinks so I could not remember

1141
00:48:15,998 --> 00:48:19,389
quanta meant I could remember spooky

1142
00:48:18,099 --> 00:48:20,920
action at a distance which is what

1143
00:48:19,389 --> 00:48:23,228
Einstein called it but I could not

1144
00:48:20,920 --> 00:48:24,759
remember quantum entanglement and could

1145
00:48:23,228 --> 00:48:26,798
anyone remember that after like five or

1146
00:48:24,759 --> 00:48:28,358
six drinks I probably not I mean all

1147
00:48:26,798 --> 00:48:30,068
these days all you have to say is Higgs

1148
00:48:28,358 --> 00:48:32,650
boson and that's it you know everything

1149
00:48:30,068 --> 00:48:34,420
about physics right now does it actually

1150
00:48:32,650 --> 00:48:36,009
in the shape of a cross I've seen a bit

1151
00:48:34,420 --> 00:48:37,659
of stuff on Twitter from Christians

1152
00:48:36,009 --> 00:48:40,088
saying that the Higgs boson particle is

1153
00:48:37,659 --> 00:48:44,018
in the shape of a cross no doubt I don't

1154
00:48:40,088 --> 00:48:47,349
think so nobody knows that it's it's a

1155
00:48:44,018 --> 00:48:50,048
bit penis in a spectrum of noise it

1156
00:48:47,349 --> 00:48:52,088
doesn't have a shape it's it I don't

1157
00:48:50,048 --> 00:48:53,318
think that's true well the thing I'm

1158
00:48:52,088 --> 00:48:54,998
hoping to again I'm looking out the

1159
00:48:53,318 --> 00:48:57,849
window because I don't like standing a

1160
00:48:54,998 --> 00:48:59,288
dr. Reggie basically I really like the

1161
00:48:57,849 --> 00:49:01,420
fact that we may be living in a universe

1162
00:48:59,289 --> 00:49:03,910
there's a projection of a hologram from

1163
00:49:01,420 --> 00:49:08,289
outside our universe based on some black

1164
00:49:03,909 --> 00:49:10,478
hole studies huh you expect me to

1165
00:49:08,289 --> 00:49:12,309
address that comment yeah well yeah look

1166
00:49:10,478 --> 00:49:14,919
I'm going with it but one thing there's

1167
00:49:12,309 --> 00:49:17,440
been three or four chem trails over Las

1168
00:49:14,920 --> 00:49:20,380
Vegas already or as they're now known

1169

00:49:17,440 --> 00:49:21,909
persistent jet contrails right yes and

1170
00:49:20,380 --> 00:49:23,019
you took photographic evidence of those

1171
00:49:21,909 --> 00:49:24,670
didn't you may not so they actually

1172
00:49:23,018 --> 00:49:27,699
happened I've seen the evidence they

1173
00:49:24,670 --> 00:49:31,329
were there now cuz the big names here

1174
00:49:27,699 --> 00:49:33,308
this week will be a stunning Danny Arab

1175
00:49:31,329 --> 00:49:36,009
where is Dunning darling should be

1176
00:49:33,309 --> 00:49:38,140
coming her ab is emceeding so he'll be

1177
00:49:36,009 --> 00:49:40,150
here definitely LeBron darling actually

1178
00:49:38,139 --> 00:49:42,848
drove a cab over so soon as his chief

1179
00:49:40,150 --> 00:49:44,829
knocks off he'll be here oh yeah he's

1180
00:49:42,849 --> 00:49:46,690
like that he's got about five jobs no

1181
00:49:44,829 --> 00:49:48,068
one last question because you got like

1182
00:49:46,690 --> 00:49:49,389
really heavy work through there looking

1183
00:49:48,068 --> 00:49:52,420

at these cuts soccer players you've got

1184

00:49:49,389 --> 00:49:53,949

there oh now what how would you describe

1185

00:49:52,420 --> 00:49:55,809

this for people haven't been here what's

1186

00:49:53,949 --> 00:49:57,338

it like I mean I just got here and I

1187

00:49:55,809 --> 00:49:59,130

haven't bumped into too many people that

1188

00:49:57,338 --> 00:50:01,659

are gone he may not mainly bumped into

1189

00:49:59,130 --> 00:50:03,068

1999 playboy bunnies in the bar the

1190

00:50:01,659 --> 00:50:05,409

thing with you Maynard you have some

1191

00:50:03,068 --> 00:50:07,630

sort of I don't know force around you

1192

00:50:05,409 --> 00:50:10,210

that manages to attract 1995 playboy

1193

00:50:07,630 --> 00:50:12,309

bunnies to the bar yeah never any newer

1194

00:50:10,210 --> 00:50:15,099

than that never sixties ones just 1995

1195

00:50:12,309 --> 00:50:18,880

for some reason to explain what this is

1196

00:50:15,099 --> 00:50:20,619

like it's obviously Vegas is the strip

1197

00:50:18,880 --> 00:50:22,298

that everyone's familiar with from

1198
00:50:20,619 --> 00:50:23,200
seeing it in movies and then turn on the

1199
00:50:22,298 --> 00:50:25,449
television

1200
00:50:23,199 --> 00:50:27,279
but what many people may not know is

1201
00:50:25,449 --> 00:50:29,169
that there are other casinos scattered

1202
00:50:27,280 --> 00:50:30,609
around kind of like I don't know you

1203
00:50:29,170 --> 00:50:32,200
wouldn't call them second great but

1204
00:50:30,608 --> 00:50:34,269
they're cheaper and there would be

1205
00:50:32,199 --> 00:50:36,098
further out of the city and some of them

1206
00:50:34,269 --> 00:50:38,858
are a little bit tattered and falling

1207
00:50:36,099 --> 00:50:41,940
down and old the south point is this

1208
00:50:38,858 --> 00:50:45,098
huge building in the middle of Suburbia

1209
00:50:41,940 --> 00:50:48,460
surrounded by empty fields with a few

1210
00:50:45,099 --> 00:50:52,930
houses and it's it's covered in a gold

1211
00:50:48,460 --> 00:50:55,088
sort of sheer so it glitters so from a

1212
00:50:52,929 --> 00:50:59,469
distance you see this glittering mass in

1213
00:50:55,088 --> 00:51:01,750
front of you it's very very cheesy and

1214
00:50:59,469 --> 00:51:03,399
yeah it's broke Vegas I'm about to go

1215
00:51:01,750 --> 00:51:05,880
down to the bowels of this building and

1216
00:51:03,400 --> 00:51:10,300
talk to a DJ Grothe now is he like

1217
00:51:05,880 --> 00:51:11,650
dubstep acid house what sort of djz I

1218
00:51:10,300 --> 00:51:15,940
think he's like from the Madchester

1219
00:51:11,650 --> 00:51:17,139
period saris a bit sort of ecstasy you

1220
00:51:15,940 --> 00:51:18,519
know that so it's going to be playing

1221
00:51:17,139 --> 00:51:20,500
it's going to be wearing flares and

1222
00:51:18,519 --> 00:51:22,420
playing some stone roses I think so yeah

1223
00:51:20,500 --> 00:51:24,579
yeah you're into that may know that's

1224
00:51:22,420 --> 00:51:25,960
your era okay well I'm gonna go down and

1225
00:51:24,579 --> 00:51:28,089
make a complete fool of myself just

1226

00:51:25,960 --> 00:51:29,710
someone fairly high up in the J ref yeah

1227
00:51:28,088 --> 00:51:35,259
he's just the president don't worry I'm

1228
00:51:29,710 --> 00:51:36,730
sure he won't mind hello because I

1229
00:51:35,260 --> 00:51:38,200
Richard you see you as well and let me

1230
00:51:36,730 --> 00:51:39,760
tell you it's been a busy weekend here

1231
00:51:38,199 --> 00:51:41,169
at tam and we're only just getting this

1232
00:51:39,760 --> 00:51:43,089
sort of an episode outer you're really

1233
00:51:41,170 --> 00:51:44,710
good you're too busy doing that super

1234
00:51:43,088 --> 00:51:46,358
backroom networking that you skeptics

1235
00:51:44,710 --> 00:51:48,670
get up to whatever that is black ops or

1236
00:51:46,358 --> 00:51:50,858
something I guess if I told you I'd have

1237
00:51:48,670 --> 00:51:53,019
to kill you the odds expression yeah

1238
00:51:50,858 --> 00:51:54,460
we're always busy at am but at the

1239
00:51:53,019 --> 00:51:56,858
moment we're having a great time because

1240
00:51:54,460 --> 00:51:58,510

dr. HD and I are here at the Australian

1241

00:51:56,858 --> 00:52:00,578

skeptics table helping to promote the

1242

00:51:58,510 --> 00:52:03,069

convention and helping to promote the

1243

00:52:00,579 --> 00:52:05,019

skeptic magazine and look the listeners

1244

00:52:03,068 --> 00:52:06,279

will be glad to know that already are

1245

00:52:05,019 --> 00:52:08,769

only about halfway through and I've

1246

00:52:06,280 --> 00:52:12,430

recorded over 60 interviews already in

1247

00:52:08,769 --> 00:52:15,849

fact 1.3 gig of information I've report

1248

00:52:12,429 --> 00:52:18,009

already day 19 arms I know about being a

1249

00:52:15,849 --> 00:52:19,480

bit above it yesterday but yeah well

1250

00:52:18,010 --> 00:52:22,119

that's a lot of information for the

1251

00:52:19,480 --> 00:52:23,380

listeners to download well it's all web

1252

00:52:22,119 --> 00:52:25,210

file so it's all going to be compressed

1253

00:52:23,380 --> 00:52:27,039

anything yet it's hard right but that is

1254

00:52:25,210 --> 00:52:28,659

quite a bit and lasting that's what

1255
00:52:27,039 --> 00:52:30,400
that's why the listeners wanted you to

1256
00:52:28,659 --> 00:52:30,989
come may not and that's what I also want

1257
00:52:30,400 --> 00:52:33,389
to thank

1258
00:52:30,989 --> 00:52:34,649
one for chipping in and helping me get

1259
00:52:33,389 --> 00:52:36,750
here i actually did with what I'd ever

1260
00:52:34,650 --> 00:52:38,519
turn up here and I'm just having a great

1261
00:52:36,750 --> 00:52:40,199
time and I'm hoping it's a way of

1262
00:52:38,519 --> 00:52:42,150
sharing the event with everybody there

1263
00:52:40,199 --> 00:52:43,710
so that's so they can hear look there

1264
00:52:42,150 --> 00:52:45,059
there's a bit of here those listeners

1265
00:52:43,710 --> 00:52:46,980
you can't make it and we've had so many

1266
00:52:45,059 --> 00:52:48,570
listeners dr. AG come up and say hello

1267
00:52:46,980 --> 00:52:50,159
to us it's fantastic but for the

1268
00:52:48,570 --> 00:52:51,930
listeners who can't make it may not your

1269
00:52:50,159 --> 00:52:53,969
reports will make them feel like they

1270
00:52:51,929 --> 00:52:55,618
were here yeah and look if we can't get

1271
00:52:53,969 --> 00:52:56,849
into a regular zone you might do like a

1272
00:52:55,619 --> 00:52:58,769
special one or something like that at

1273
00:52:56,849 --> 00:53:00,960
some point the near future absolutely

1274
00:52:58,769 --> 00:53:02,579
may not tell me about your impressions

1275
00:53:00,960 --> 00:53:04,500
of Vegas and because you stayed on the

1276
00:53:02,579 --> 00:53:07,049
street for a couple of nights do you ago

1277
00:53:04,500 --> 00:53:08,750
I was at the exploding mirage and I have

1278
00:53:07,050 --> 00:53:11,310
been to Vegas a few times before and

1279
00:53:08,750 --> 00:53:12,719
there was one night there where a friend

1280
00:53:11,309 --> 00:53:15,029
of mine was out gambling till all hours

1281
00:53:12,719 --> 00:53:16,379
of the morning and and I kept getting an

1282
00:53:15,030 --> 00:53:17,910
hourly report kept coming up to the

1283

00:53:16,380 --> 00:53:19,440
lemon day things are going well things

1284
00:53:17,909 --> 00:53:21,359
are not going well a month I'm down all

1285
00:53:19,440 --> 00:53:22,679
that sort of stuff well that's the way

1286
00:53:21,360 --> 00:53:24,720
you're supposed to do it in Vegas right

1287
00:53:22,679 --> 00:53:28,919
oh yeah and I've got so much tech to

1288
00:53:24,719 --> 00:53:30,179
take home so much tank yeah in fact I'm

1289
00:53:28,920 --> 00:53:31,559
gonna be I'm gonna be looking into some

1290
00:53:30,179 --> 00:53:33,239
of the techniques of wildlife smuggling

1291
00:53:31,559 --> 00:53:34,590
because I might I might need to get the

1292
00:53:33,239 --> 00:53:37,709
things into Australia that need to be

1293
00:53:34,590 --> 00:53:39,420
secreted interesting to you did a couple

1294
00:53:37,710 --> 00:53:40,949
of weeks ago about wildlife laying out

1295
00:53:39,420 --> 00:53:42,389
that was very good yeah and I won't have

1296
00:53:40,949 --> 00:53:43,858
any drugs a wildlife but I'll have a lot

1297
00:53:42,389 --> 00:53:45,000

of really tacky stuff but I just would

1298

00:53:43,858 --> 00:53:47,130

not want to be caught going through

1299

00:53:45,000 --> 00:53:48,780

customs so what about the alien vodka

1300

00:53:47,130 --> 00:53:50,369

that you tweeted a picture of last night

1301

00:53:48,780 --> 00:53:53,310

where is that going to go well the empty

1302

00:53:50,369 --> 00:53:56,070

bottle is it could be is on display in

1303

00:53:53,309 --> 00:53:58,019

my room so I can look unless this come

1304

00:53:56,070 --> 00:54:00,059

up and and view it in your room pay a

1305

00:53:58,019 --> 00:54:01,800

dollar and viewers I believe anyone

1306

00:54:00,059 --> 00:54:04,619

that's familiar with the UFO phenomena I

1307

00:54:01,800 --> 00:54:07,530

think I experienced missing time last

1308

00:54:04,619 --> 00:54:09,000

night IOC and then when you wake up you

1309

00:54:07,530 --> 00:54:11,100

found the alien vodka bottle was empty

1310

00:54:09,000 --> 00:54:13,380

that's correct oh that's a common

1311

00:54:11,099 --> 00:54:16,589

phenomenon may know I thought it was

1312
00:54:13,380 --> 00:54:18,450
something new but actually may not you

1313
00:54:16,590 --> 00:54:20,309
are near area 51 so that may have had

1314
00:54:18,449 --> 00:54:22,739
something to do with it it's so cool I'm

1315
00:54:20,309 --> 00:54:24,449
thinking about that every day yeah be

1316
00:54:22,739 --> 00:54:27,649
careful you might get abductor takedown

1317
00:54:24,449 --> 00:54:27,649
I can only hope

1318
00:54:28,409 --> 00:54:34,239
of course I'm here right now at this

1319
00:54:32,619 --> 00:54:36,250
epic turntable where dr. Reggie is

1320
00:54:34,239 --> 00:54:39,129
checking her emails how's it going there

1321
00:54:36,250 --> 00:54:41,289
pretty good may not NEC sorta sisters

1322
00:54:39,130 --> 00:54:43,780
come in this morning any wash see sort

1323
00:54:41,289 --> 00:54:46,389
of cysts legal emails I'll see sword

1324
00:54:43,780 --> 00:54:48,269
assist you no not yet okay well I've

1325
00:54:46,389 --> 00:54:50,319
been told to cease and desist this shirt

1326
00:54:48,269 --> 00:54:52,000
it's a periodic table of the elements

1327
00:54:50,320 --> 00:54:53,289
what's wrong with that some people have

1328
00:54:52,000 --> 00:54:55,329
got a problem with that particularly

1329
00:54:53,289 --> 00:54:58,420
americone IAM really i think it's a

1330
00:54:55,329 --> 00:54:59,799
miracle imperialism oh baby yeah i think

1331
00:54:58,420 --> 00:55:01,630
it honey just for a little while inside

1332
00:54:59,800 --> 00:55:03,250
a reactor which one is extremely rare

1333
00:55:01,630 --> 00:55:05,860
americano never heard of it actually

1334
00:55:03,250 --> 00:55:07,900
myself Maynard can you eat it otherwise

1335
00:55:05,860 --> 00:55:09,309
are you being elementalst there's some

1336
00:55:07,900 --> 00:55:12,039
elements you've got a problem I am being

1337
00:55:09,309 --> 00:55:13,420
elementalist it comes to mercury folks

1338
00:55:12,039 --> 00:55:15,400
we'll talk about it all day but when

1339
00:55:13,420 --> 00:55:17,710
America onium comes up she's strangely

1340

00:55:15,400 --> 00:55:21,430
silent is americone Ian lobby paying you

1341
00:55:17,710 --> 00:55:24,159
i am from Big Mac mercury given be

1342
00:55:21,429 --> 00:55:25,989
accurate yeah actually I'm still

1343
00:55:24,159 --> 00:55:27,639
actually continuing my Spanx experiment

1344
00:55:25,989 --> 00:55:32,500
you remember about that yes how's it

1345
00:55:27,639 --> 00:55:33,909
going i'll show you i'm wearing my Spanx

1346
00:55:32,500 --> 00:55:35,380
now I've discovered one thing may not

1347
00:55:33,909 --> 00:55:37,389
show you he's under way they're Spanx

1348
00:55:35,380 --> 00:55:39,519
yes he's we bought some Spanx on the

1349
00:55:37,389 --> 00:55:41,679
strip the other day right it's reduced

1350
00:55:39,519 --> 00:55:43,780
my waist by about an inch but i keep

1351
00:55:41,679 --> 00:55:45,940
getting um really bad indigestion when i

1352
00:55:43,780 --> 00:55:46,960
eat because because the time because the

1353
00:55:45,940 --> 00:55:50,409
pressure is pushing up in my esophagus

1354
00:55:46,960 --> 00:55:52,720

oh so can you just sort of unzip it when

1355

00:55:50,409 --> 00:55:54,009

you eat men are like pull a little bit

1356

00:55:52,719 --> 00:55:56,079

out around about your breastbone there

1357

00:55:54,010 --> 00:55:57,370

and do that in your fine right so you've

1358

00:55:56,079 --> 00:56:00,400

got to pull it out with one hand and eat

1359

00:55:57,369 --> 00:56:02,319

with the other tribe okay then doesn't

1360

00:56:00,400 --> 00:56:03,639

serve very practical to me then how

1361

00:56:02,320 --> 00:56:06,010

exciting is time this year for you

1362

00:56:03,639 --> 00:56:08,170

you've been to a couple now yeah this is

1363

00:56:06,010 --> 00:56:10,570

my third term actually um yeah it's

1364

00:56:08,170 --> 00:56:12,820

fantastic I mean it's it's always great

1365

00:56:10,570 --> 00:56:14,650

it's a sort of vibe or a tone to it this

1366

00:56:12,820 --> 00:56:16,120

year that we haven't had before or it's

1367

00:56:14,650 --> 00:56:18,190

different or different speaker that's

1368

00:56:16,119 --> 00:56:19,929

causing something yeah there is but I

1369
00:56:18,190 --> 00:56:21,369
can't talk about it ok well fair enough

1370
00:56:19,929 --> 00:56:24,909
then well that's okay because we're not

1371
00:56:21,369 --> 00:56:26,469
talking about you either no I think I

1372
00:56:24,909 --> 00:56:28,690
think people probably heard about the

1373
00:56:26,469 --> 00:56:33,189
tone of this year's town so we don't

1374
00:56:28,690 --> 00:56:35,260
need to discuss it any further like most

1375
00:56:33,190 --> 00:56:37,840
things don't know what we're currently

1376
00:56:35,260 --> 00:56:40,510
at the Strand skeptics table where a

1377
00:56:37,840 --> 00:56:41,860
local otherwise known as an American you

1378
00:56:40,510 --> 00:56:44,110
may have seen them on television or in

1379
00:56:41,860 --> 00:56:46,210
books perhaps is about to try a musk

1380
00:56:44,110 --> 00:56:47,590
stick for the first time you dig you but

1381
00:56:46,210 --> 00:56:50,110
you've never had on them before I've

1382
00:56:47,590 --> 00:56:52,360
never had a mustard Gnostic before okay

1383
00:56:50,110 --> 00:57:04,059
well give it a go but sniffing it smells

1384
00:56:52,360 --> 00:57:09,090
good I'll try anything once hmm he's

1385
00:57:04,059 --> 00:57:11,769
chewing tastes kind of like the

1386
00:57:09,090 --> 00:57:14,950
marshmallow Easter eggs that I remember

1387
00:57:11,769 --> 00:57:17,530
from childhood and is that a pleasant

1388
00:57:14,949 --> 00:57:19,779
memory was it an association of taunting

1389
00:57:17,530 --> 00:57:21,220
that you don't want to remember why I

1390
00:57:19,780 --> 00:57:25,840
wasn't particularly fond of them then

1391
00:57:21,219 --> 00:57:27,519
but but it's not bad mmm no actually I

1392
00:57:25,840 --> 00:57:28,930
like them they're they're good okay

1393
00:57:27,519 --> 00:57:30,670
you're good whatever it is very tasty

1394
00:57:28,929 --> 00:57:32,199
there we go well that's someone who

1395
00:57:30,670 --> 00:57:33,940
likes the mastic they don't normally go

1396
00:57:32,199 --> 00:57:35,619
down too well do they reach it people

1397

00:57:33,940 --> 00:57:40,510
usually think they taste like soap or

1398
00:57:35,619 --> 00:57:42,880
perfume okay here so I'm DS bum yes or

1399
00:57:40,510 --> 00:57:45,730
no oh they're good i like them here we

1400
00:57:42,880 --> 00:57:47,260
go chalk one up for the GS bum look and

1401
00:57:45,730 --> 00:57:48,460
look he's the second person has turned

1402
00:57:47,260 --> 00:57:50,200
up at the main I'd meet and greet the

1403
00:57:48,460 --> 00:57:52,360
cold sausage has gone now and we have

1404
00:57:50,199 --> 00:57:53,679
Karen E how are you Karen I'm wonderful

1405
00:57:52,360 --> 00:57:56,230
and I'm so thrilled and I'm finally

1406
00:57:53,679 --> 00:57:57,789
getting to meet so yeah I mean yeah I

1407
00:57:56,230 --> 00:57:58,719
mean I'm most Australians know me

1408
00:57:57,789 --> 00:57:59,469
through a lots of other things but

1409
00:57:58,719 --> 00:58:00,819
you've only known me through this

1410
00:57:59,469 --> 00:58:02,469
podcast I only know you threw this

1411
00:58:00,820 --> 00:58:04,420

podcast but still I wasn't sure they'd

1412

00:58:02,469 --> 00:58:05,679

let you into the country well you know

1413

00:58:04,420 --> 00:58:07,119

there's ways of hiding things through

1414

00:58:05,679 --> 00:58:08,919

Las Vegas customs that I don't want to

1415

00:58:07,119 --> 00:58:12,670

skull Alton I'm sure a very good point

1416

00:58:08,920 --> 00:58:15,010

and now what is it about our podcast our

1417

00:58:12,670 --> 00:58:17,530

Australian skeptical scientific view of

1418

00:58:15,010 --> 00:58:18,778

the world that interest you oh that's an

1419

00:58:17,530 --> 00:58:22,619

easy one to answer

1420

00:58:18,778 --> 00:58:24,418

I think at least it seems to me what

1421

00:58:22,619 --> 00:58:26,219

little exposure i have two Australian

1422

00:58:24,418 --> 00:58:29,248

society in Australian culture that

1423

00:58:26,219 --> 00:58:31,650

you're addressing the societal problems

1424

00:58:29,248 --> 00:58:34,288

that skeptics are traditionally you know

1425

00:58:31,650 --> 00:58:37,259

in battle with you going after the

1426
00:58:34,289 --> 00:58:41,579
anti-vaxxers you're going after the

1427
00:58:37,259 --> 00:58:43,380
power bracelet people and we don't do

1428
00:58:41,579 --> 00:58:46,169
that here like we should in my opinion

1429
00:58:43,380 --> 00:58:48,209
now is it because there's difficult

1430
00:58:46,168 --> 00:58:49,528
legal issues here is because Randy did a

1431
00:58:48,208 --> 00:58:51,418
lot of that in the beginning and maybe

1432
00:58:49,528 --> 00:58:56,489
he's a mobile educational focus these

1433
00:58:51,418 --> 00:58:59,818
days um I think we've let people become

1434
00:58:56,489 --> 00:59:02,338
entrenched into the bad patterns of

1435
00:58:59,818 --> 00:59:04,018
thinking into the non-productive you

1436
00:59:02,338 --> 00:59:05,759
know ways of dealing with problems it's

1437
00:59:04,018 --> 00:59:09,538
kind of a trademark of our culture now

1438
00:59:05,759 --> 00:59:10,798
that we're complacent well if I was

1439
00:59:09,539 --> 00:59:12,659
looking for a quick fix which is why

1440
00:59:10,798 --> 00:59:16,438
non-science thinking is so popular

1441
00:59:12,659 --> 00:59:20,130
because science is hard oh it's so it's

1442
00:59:16,438 --> 00:59:23,338
hard for baby look anything that's worth

1443
00:59:20,130 --> 00:59:24,689
doing it's it it's got to be hard but

1444
00:59:23,338 --> 00:59:26,369
you've got to earn it or it doesn't

1445
00:59:24,688 --> 00:59:27,688
really mean anything does it but you

1446
00:59:26,369 --> 00:59:29,548
said it with a smile on your face and it

1447
00:59:27,688 --> 00:59:33,509
is so true but it's such a hard sell for

1448
00:59:29,548 --> 00:59:36,208
people yes it is it's I I'm sort of

1449
00:59:33,509 --> 00:59:37,619
notorious at my workplace because I work

1450
00:59:36,208 --> 00:59:38,698
with a lot of people who can we talk

1451
00:59:37,619 --> 00:59:40,318
about this on radio I mean is this

1452
00:59:38,699 --> 00:59:42,479
something that goes on the Friday okay

1453
00:59:40,318 --> 00:59:45,838
um because I work with a lot of

1454

00:59:42,478 --> 00:59:47,639
believers and a lot of people who very

1455
00:59:45,838 --> 00:59:49,498
much are entrenched in in their

1456
00:59:47,639 --> 00:59:52,679
mainstream culture and of course I don't

1457
00:59:49,498 --> 00:59:54,538
really blend very well but I'm fortunate

1458
00:59:52,679 --> 00:59:55,949
and that I not so how do you hush your

1459
00:59:54,539 --> 00:59:58,709
mouth and how do you know when to say

1460
00:59:55,949 --> 01:00:00,179
something um you think about people's

1461
00:59:58,708 --> 01:00:04,528
feelings you think about being

1462
01:00:00,179 --> 01:00:07,789
respectful you think about what can I

1463
01:00:04,528 --> 01:00:10,469
share here that might help someone think

1464
01:00:07,789 --> 01:00:12,269
about this problem without making them

1465
01:00:10,469 --> 01:00:14,740
feel attacked

1466
01:00:12,268 --> 01:00:17,199
and I guess it comes down to the to

1467
01:00:14,739 --> 01:00:18,848
respect and encouragement I encourage

1468
01:00:17,199 --> 01:00:20,169

you to join me that's what that is if

1469

01:00:18,849 --> 01:00:21,730

you're taking something away you've got

1470

01:00:20,170 --> 01:00:23,680

to offer something to replace it you

1471

01:00:21,730 --> 01:00:25,480

can't just eat bank or else you know

1472

01:00:23,679 --> 01:00:27,129

you'll get a reputation to debunk oh

1473

01:00:25,480 --> 01:00:29,740

absolutely absolutely you have to offer

1474

01:00:27,130 --> 01:00:32,200

something to replace and and people they

1475

01:00:29,739 --> 01:00:34,479

cling to their religious traditions and

1476

01:00:32,199 --> 01:00:36,788

you know there's a superstition beliefs

1477

01:00:34,480 --> 01:00:38,798

and these are the things because they do

1478

01:00:36,789 --> 01:00:40,028

provide something that they need and

1479

01:00:38,798 --> 01:00:41,440

what's the one that gets you going the

1480

01:00:40,028 --> 01:00:43,059

most the one that you just can't help

1481

01:00:41,440 --> 01:00:47,200

yourself having to open your mouth about

1482

01:00:43,059 --> 01:00:51,059

oh right now our whole country is torn

1483
01:00:47,199 --> 01:00:55,480
about is torn apart by marriage equality

1484
01:00:51,059 --> 01:00:58,119
battle and it really infuriates me when

1485
01:00:55,480 --> 01:01:06,219
people say well this can't ever be made

1486
01:00:58,119 --> 01:01:08,349
legal because it's wrong as I know I've

1487
01:01:06,219 --> 01:01:11,558
had that argument with my stepmother and

1488
01:01:08,349 --> 01:01:14,619
when asked why machine uses the Bible as

1489
01:01:11,559 --> 01:01:16,960
the reason oh my goodness um I tend to

1490
01:01:14,619 --> 01:01:18,990
go back a little further and I say when

1491
01:01:16,960 --> 01:01:22,298
was it alright to keep a bunch of

1492
01:01:18,989 --> 01:01:25,508
Americans in channel slavery we got rid

1493
01:01:22,298 --> 01:01:28,210
of man was it right not to let half of

1494
01:01:25,509 --> 01:01:30,818
the entire nation not vote because they

1495
01:01:28,210 --> 01:01:33,400
were women we got rid of that so why

1496
01:01:30,818 --> 01:01:37,058
should we say this section of our

1497
01:01:33,400 --> 01:01:40,660
citizenry but can't participate in an

1498
01:01:37,059 --> 01:01:44,410
institution that we value and and want

1499
01:01:40,659 --> 01:01:46,899
people to pursue just because they don't

1500
01:01:44,409 --> 01:01:49,028
love who we expected them to yeah that's

1501
01:01:46,900 --> 01:01:50,858
not right i look and they always oftenly

1502
01:01:49,028 --> 01:01:52,900
think of the children argument gets

1503
01:01:50,858 --> 01:01:56,679
played in this one too doesn't it oh my

1504
01:01:52,900 --> 01:01:59,410
goodness do you know how many happy well

1505
01:01:56,679 --> 01:02:01,808
balanced normal children come from every

1506
01:01:59,409 --> 01:02:06,009
type of family you can possibly imagine

1507
01:02:01,809 --> 01:02:08,439
and how many maladaptive unhappy

1508
01:02:06,009 --> 01:02:09,998
children come from every type of family

1509
01:02:08,438 --> 01:02:11,798
that you can imagine it doesn't matter

1510
01:02:09,998 --> 01:02:14,438
the gender your parents doesn't matter

1511

01:02:11,798 --> 01:02:17,079
how much money you have or don't have or

1512
01:02:14,438 --> 01:02:19,179
what brand of politics you espouse what

1513
01:02:17,079 --> 01:02:22,059
happened what matters are if children

1514
01:02:19,179 --> 01:02:25,208
feel loved and if children are educated

1515
01:02:22,059 --> 01:02:27,670
and the children are encouraged to think

1516
01:02:25,208 --> 01:02:29,588
and be themselves they're going to be

1517
01:02:27,670 --> 01:02:31,659
great people we've actually found the

1518
01:02:29,588 --> 01:02:34,389
skeptic zone listener in Las Vegas who

1519
01:02:31,659 --> 01:02:38,098
is a my name is Greg and can you explain

1520
01:02:34,389 --> 01:02:40,568
Richard Saunders haircut arm special

1521
01:02:38,099 --> 01:02:42,729
okay some people have said breakfast

1522
01:02:40,568 --> 01:02:44,469
club but special that's very good now

1523
01:02:42,728 --> 01:02:45,608
what is your thing with skepticism

1524
01:02:44,469 --> 01:02:48,338
what's your what's your thing what do

1525
01:02:45,608 --> 01:02:51,969

you hey I love that I UFO go and add a

1526

01:02:48,338 --> 01:02:56,548

vaccine guy a ghost guy gosh you know I

1527

01:02:51,969 --> 01:02:59,068

think the whole anti-vaccination

1528

01:02:56,548 --> 01:03:02,009

I really is a problem for me in

1529

01:02:59,068 --> 01:03:04,108

California no I am actually that would

1530

01:03:02,009 --> 01:03:06,119

be I imagine the biggest place apart

1531

01:03:04,108 --> 01:03:08,278

from maybe Oregon where they maybe don't

1532

01:03:06,119 --> 01:03:09,869

like it we do have our high

1533

01:03:08,278 --> 01:03:12,298

concentration yes definitely in

1534

01:03:09,869 --> 01:03:14,009

California you know I don't know why but

1535

01:03:12,298 --> 01:03:16,498

is it because there's a bit of an

1536

01:03:14,009 --> 01:03:18,509

anti-authoritarian bent in some areas of

1537

01:03:16,498 --> 01:03:20,899

California could be could be maybe

1538

01:03:18,509 --> 01:03:24,318

people feel that they may know better

1539

01:03:20,900 --> 01:03:29,880

and therefore our complacent and don't

1540
01:03:24,318 --> 01:03:32,608
decide to you know follow up on on a

1541
01:03:29,880 --> 01:03:35,189
critical thinking aspect okay i was

1542
01:03:32,608 --> 01:03:36,630
talking to DJ Grothe earlier but he was

1543
01:03:35,188 --> 01:03:38,670
saying he'd always worked in reasonably

1544
01:03:36,630 --> 01:03:39,689
some skeptical places what sort of place

1545
01:03:38,670 --> 01:03:42,719
to you again if you don't mind me asking

1546
01:03:39,688 --> 01:03:45,449
i work for a local public transit agency

1547
01:03:42,719 --> 01:03:48,179
okay so what sort of woo comes across

1548
01:03:45,449 --> 01:03:50,338
your office on a regular basis well I

1549
01:03:48,179 --> 01:03:53,309
can't say that there's that much

1550
01:03:50,338 --> 01:03:55,199
actually in my line of work forgery yeah

1551
01:03:53,309 --> 01:03:56,910
I think I'm just I'm a computer

1552
01:03:55,199 --> 01:03:57,959
technician so are you full moon thing

1553
01:03:56,909 --> 01:03:59,399
people would say well there's going to

1554
01:03:57,958 --> 01:04:01,498
be trouble on a full moon wouldn't they

1555
01:03:59,400 --> 01:04:04,588
that's possible yes I have heard that

1556
01:04:01,498 --> 01:04:07,858
rule a little line before but you know

1557
01:04:04,588 --> 01:04:09,208
of course I just dismiss it so what is

1558
01:04:07,858 --> 01:04:10,858
the one that really makes you angry then

1559
01:04:09,208 --> 01:04:12,419
apart is it the anti-vaccination that

1560
01:04:10,858 --> 01:04:13,438
really every time and how do you

1561
01:04:12,420 --> 01:04:15,239
approach it with people how do you

1562
01:04:13,438 --> 01:04:18,420
explain to them the mercury isn't

1563
01:04:15,239 --> 01:04:21,509
killing everybody yeah anti-vaccination

1564
01:04:18,420 --> 01:04:25,920
and astrology is another one that really

1565
01:04:21,509 --> 01:04:27,809
kind of you know bugs me a bit I'm the

1566
01:04:25,920 --> 01:04:30,479
Capricorn are you really I'm a Gemini

1567
01:04:27,809 --> 01:04:32,969
but at least that's what is it oh now

1568

01:04:30,478 --> 01:04:34,078
Gemini whenever they leave the house I

1569
01:04:32,969 --> 01:04:36,719
take a different personality with them

1570
01:04:34,079 --> 01:04:40,439
on top that's true i have an inventory

1571
01:04:36,719 --> 01:04:41,938
at home I keep a spare with me but you

1572
01:04:40,438 --> 01:04:43,498
sometimes tell people do something else

1573
01:04:41,938 --> 01:04:44,998
just to get them going oh I hadn't

1574
01:04:43,498 --> 01:04:46,259
thought of that that's good tell people

1575
01:04:44,998 --> 01:04:47,698
your Scorpio everyone seems to think

1576
01:04:46,259 --> 01:04:49,679
Scorpio is really good in bed so you

1577
01:04:47,699 --> 01:04:51,119
should say Scorpio also Scorpio is

1578
01:04:49,679 --> 01:04:52,949
probably the most murdered star sign

1579
01:04:51,119 --> 01:04:55,229
because for some reason that allegedly

1580
01:04:52,949 --> 01:04:57,688
they choose things like police fire

1581
01:04:55,228 --> 01:04:59,759
dangerous professions or just ask them

1582
01:04:57,688 --> 01:05:01,798

what you know ask somebody what do they

1583

01:04:59,759 --> 01:05:03,420

think I am and then tell them something

1584

01:05:01,798 --> 01:05:05,170

different just to see what their

1585

01:05:03,420 --> 01:05:07,608

reaction is

1586

01:05:05,170 --> 01:05:09,159

then you go to what's my real style song

1587

01:05:07,608 --> 01:05:11,449

calm and find out what you really are

1588

01:05:09,159 --> 01:05:13,608

right right because you know you got to

1589

01:05:11,449 --> 01:05:16,639

think about procession of the zodiac

1590

01:05:13,608 --> 01:05:18,710

signs over the millennia you know and it

1591

01:05:16,639 --> 01:05:21,739

goes I've been pushing a fairly radical

1592

01:05:18,710 --> 01:05:24,048

agenda here I'm pushing the fact that

1593

01:05:21,739 --> 01:05:26,179

Adam West was in fact the true and

1594

01:05:24,048 --> 01:05:29,690

correct Batman I do believe in me or not

1595

01:05:26,179 --> 01:05:32,778

oh you've a Keaton guy or a hmm I think

1596

01:05:29,690 --> 01:05:35,719

Adam West was certainly the most

1597
01:05:32,778 --> 01:05:39,889
important of the forerunners of the

1598
01:05:35,719 --> 01:05:41,298
Batman genre normally when someone says

1599
01:05:39,889 --> 01:05:42,558
that listen that means they're working

1600
01:05:41,298 --> 01:05:45,710
their way around to telling me I'm full

1601
01:05:42,559 --> 01:05:48,460
I think you're right great polite I

1602
01:05:45,710 --> 01:05:48,460
think I'll buy you a drink

1603
01:06:03,170 --> 01:06:09,030
scopes monkey choir scopes monkey choir

1604
01:06:06,750 --> 01:06:11,429
wait are we acquire know when I require

1605
01:06:09,030 --> 01:06:16,500
but we are musicians when I monkeys

1606
01:06:11,429 --> 01:06:19,469
either we are ready so what is scopes

1607
01:06:16,500 --> 01:06:21,750
monkey choir it's podcast oh yeah it's

1608
01:06:19,469 --> 01:06:24,779
podcast it's the podcast where music and

1609
01:06:21,750 --> 01:06:26,460
sound meets science and skepticism we

1610
01:06:24,780 --> 01:06:28,170
are two professional musicians who

1611
01:06:26,460 --> 01:06:29,699
decided to turn our skeptical eyes on

1612
01:06:28,170 --> 01:06:31,579
our own profession we look at the

1613
01:06:29,699 --> 01:06:34,289
science of music we look at studies

1614
01:06:31,579 --> 01:06:36,630
recent studies about music and sound we

1615
01:06:34,289 --> 01:06:41,340
look skeptically at musical myths we

1616
01:06:36,630 --> 01:06:43,740
look at and we work out of our music

1617
01:06:41,340 --> 01:06:45,990
listen to us at Scopes Monkey choir calm

1618
01:06:43,739 --> 01:06:48,269
I'll find us on iTunes Scopes Monkey

1619
01:06:45,989 --> 01:06:51,229
choir the podcast for music and sounds

1620
01:06:48,269 --> 01:06:51,230
meat science and skepticism

1621
01:07:01,570 --> 01:07:07,640
well thank you for listening to the

1622
01:07:03,889 --> 01:07:10,159
skeptic zone here from tam 2012 Travis

1623
01:07:07,639 --> 01:07:11,509
still with me still maintaining station

1624
01:07:10,159 --> 01:07:14,119
here with me at the end of the corridor

1625

01:07:11,510 --> 01:07:17,030
big day had lots of interesting talks

1626
01:07:14,119 --> 01:07:18,619
and I can't wait to see may not again

1627
01:07:17,030 --> 01:07:20,060
with his microphone running around he's

1628
01:07:18,619 --> 01:07:23,150
going to be getting more interviews for

1629
01:07:20,059 --> 01:07:25,369
us now what's coming up with you Travis

1630
01:07:23,150 --> 01:07:27,260
what's happening in the travis roy near

1631
01:07:25,369 --> 01:07:30,259
future well I'm looking forward to

1632
01:07:27,260 --> 01:07:33,410
seeing Ben Radford's talk as well as the

1633
01:07:30,260 --> 01:07:35,870
SGU at two o'clock later today and then

1634
01:07:33,409 --> 01:07:37,819
what's the big event tonight this poker

1635
01:07:35,869 --> 01:07:40,609
tonight look at this level clock is a

1636
01:07:37,820 --> 01:07:42,440
special SGU poker night and then I think

1637
01:07:40,610 --> 01:07:44,570
I'm taking part of that and I can't wait

1638
01:07:42,440 --> 01:07:46,970
now look Travis I just hear the fact

1639
01:07:44,570 --> 01:07:50,380

that I think Ben Radford has just taken

1640

01:07:46,969 --> 01:07:52,969

the stage I think we better run in there

1641

01:07:50,380 --> 01:07:55,160

why we hear something clinking down the

1642

01:07:52,969 --> 01:07:59,089

end of the hall I think we better run in

1643

01:07:55,159 --> 01:08:01,969

there and sign off so from the amazing

1644

01:07:59,090 --> 01:08:08,660

meeting 2012 this is Richard Saunders

1645

01:08:01,969 --> 01:08:11,929

and travis roy signing off you've been

1646

01:08:08,659 --> 01:08:16,460

listening to the skeptic zone visit our

1647

01:08:11,929 --> 01:08:18,949

website at www.skeptics.org on TV for

1648

01:08:16,460 --> 01:08:21,579

comments contacts and extra video

1649

01:08:18,949 --> 01:08:21,579

reports