

1
00:00:00,000 --> 00:00:14,400
a giant hairy creature part ape one man

2
00:00:10,669 --> 00:00:16,740
indians call him sasquatch they believe

3
00:00:14,400 --> 00:00:20,189
he is as gentle as he is powerful and

4
00:00:16,739 --> 00:00:21,959
mysterious he's been seen many times in

5
00:00:20,189 --> 00:00:24,480
the rugged mountains and deep woods of

6
00:00:21,960 --> 00:00:27,630
the Pacific Northwest the encounters

7
00:00:24,480 --> 00:00:30,179
have not always been peaceful if we

8
00:00:27,629 --> 00:00:32,700
assume that bigfoot is real and that men

9
00:00:30,178 --> 00:00:35,009
are closing in on this seemingly gentle

10
00:00:32,700 --> 00:00:37,950
monster then we must prepare for that

11
00:00:35,009 --> 00:00:40,920
first meeting to have eluded us for so

12
00:00:37,950 --> 00:00:43,469
long Bigfoot must understand men very

13
00:00:40,920 --> 00:00:46,679
well the burden will be on us to

14
00:00:43,469 --> 00:00:51,289
understand him Bigfoot may well be

15
00:00:46,679 --> 00:00:51,289
waiting for some sign that we're ready

16
00:00:56,479 --> 00:01:04,239
welcome to the skeptic zone the podcast

17
00:00:59,630 --> 00:01:04,239
from Australia for science and reason

18
00:01:12,810 --> 00:01:19,478
hello and welcome to the skeptics our

19
00:01:15,579 --> 00:01:22,239
own episode number 332 for the first of

20
00:01:19,478 --> 00:01:24,400
March 2015 Richard Saunders here with

21
00:01:22,239 --> 00:01:26,949
you from Sydney Australia with once

22
00:01:24,400 --> 00:01:30,219
again I'm delighted to stay my special

23
00:01:26,950 --> 00:01:33,129
guest host guest host this week as last

24
00:01:30,219 --> 00:01:35,379
week Joe alabaster hello Joe hello

25
00:01:33,129 --> 00:01:37,689
Richard thank you for popping down to

26
00:01:35,379 --> 00:01:39,879
visit me this week not a problem it's

27
00:01:37,689 --> 00:01:41,560
lovely to be done in Sydney even though

28
00:01:39,879 --> 00:01:43,569
the weather is going a bit strange on us

29

00:01:41,560 --> 00:01:45,700
yeah as we are recording folks and we're

30
00:01:43,569 --> 00:01:50,079
looking at the radar map here huge storm

31
00:01:45,700 --> 00:01:51,820
cell is just coming over we went outside

32
00:01:50,079 --> 00:01:53,978
a moment ago and we could actually see

33
00:01:51,819 --> 00:01:55,779
the clouds swirling like I've never seen

34
00:01:53,978 --> 00:01:58,629
them before it's a bit area bit spooky

35
00:01:55,780 --> 00:02:00,219
will press on nevertheless Joe what an

36
00:01:58,629 --> 00:02:02,879
interesting show we have for you this

37
00:02:00,219 --> 00:02:05,950
week we do indeed first up we've got

38
00:02:02,879 --> 00:02:07,719
Maynard with a bit of spooky action he

39
00:02:05,950 --> 00:02:10,360
is going to be talking to dr. Alex

40
00:02:07,719 --> 00:02:12,310
Wardak who was speaking at the

41
00:02:10,360 --> 00:02:14,620
Australian skeptics national convention

42
00:02:12,310 --> 00:02:17,199
last year he's very interesting I

43
00:02:14,620 --> 00:02:18,610

thought something yeah it's not the

44

00:02:17,199 --> 00:02:20,469

usual sort of thing that goes on the

45

00:02:18,610 --> 00:02:22,269

zone i don't think it's not it's he's

46

00:02:20,469 --> 00:02:25,329

going to be talking about drug reform

47

00:02:22,269 --> 00:02:26,950

hmm now when may not gave you this

48

00:02:25,329 --> 00:02:29,079

interview I thought oh hello this is not

49

00:02:26,949 --> 00:02:30,609

quite as you saying not quite that what

50

00:02:29,079 --> 00:02:32,950

you would normally here on the skeptic

51

00:02:30,610 --> 00:02:36,000

zone but it's such a good interview and

52

00:02:32,949 --> 00:02:39,009

such interesting points and I think

53

00:02:36,000 --> 00:02:42,099

listeners out there will find dr. word

54

00:02:39,009 --> 00:02:44,019

acts opinions vary worth listening to

55

00:02:42,099 --> 00:02:46,209

even if you don't agree with them and

56

00:02:44,019 --> 00:02:48,969

some people will and some people want

57

00:02:46,209 --> 00:02:51,310

it's a good interview and may not really

58
00:02:48,969 --> 00:02:52,689
shows his love interview chops in this

59
00:02:51,310 --> 00:02:54,159
one I think good on your Maynard an

60
00:02:52,689 --> 00:02:56,859
interesting interview to kick off the

61
00:02:54,159 --> 00:02:59,109
show this week and following that a

62
00:02:56,860 --> 00:03:01,150
brief interview with a very important

63
00:02:59,110 --> 00:03:03,670
man professor brian schmidt who won a

64
00:03:01,150 --> 00:03:06,610
nobel prize in physics he was speaking

65
00:03:03,669 --> 00:03:08,530
in canberra the canberra skeptics joe

66
00:03:06,610 --> 00:03:10,690
have a lot of good talks down there they

67
00:03:08,530 --> 00:03:12,849
really really do yeah I'm very impressed

68
00:03:10,689 --> 00:03:15,099
anyway Kevin Davies from the camera

69
00:03:12,849 --> 00:03:17,769
skeptics catches up with professor

70
00:03:15,099 --> 00:03:19,299
Schmidt just after his talk and has a

71
00:03:17,769 --> 00:03:21,250
brief chat with him so I thought I would

72
00:03:19,300 --> 00:03:23,230
include that in this week's show thank

73
00:03:21,250 --> 00:03:25,389
you Kevin for passing that along

74
00:03:23,229 --> 00:03:28,030
me and following that is awake in

75
00:03:25,389 --> 00:03:30,488
silence from our iOS ah the Royal

76
00:03:28,030 --> 00:03:33,280
Institution of Australia in Adelaide I

77
00:03:30,489 --> 00:03:34,810
visited there last December when I was

78
00:03:33,280 --> 00:03:38,019
touring with james randi what a fine

79
00:03:34,810 --> 00:03:41,378
outfit it is what's that website mm-hmm

80
00:03:38,019 --> 00:03:44,349
I think it's all right as org dot a you

81
00:03:41,378 --> 00:03:46,419
know I think you're right yes a week in

82
00:03:44,348 --> 00:03:49,149
science a very popular segment on the

83
00:03:46,419 --> 00:03:52,958
skeptic zone after that you and I are

84
00:03:49,150 --> 00:03:55,510
going to have a bit of chat about a sad

85
00:03:52,959 --> 00:03:58,000
story as it turns out a woman known as

86

00:03:55,509 --> 00:04:00,909
the wellness warrior is that word

87
00:03:58,000 --> 00:04:05,680
wellness died last week sadly died of

88
00:04:00,909 --> 00:04:07,840
cancer but it seems she could have

89
00:04:05,680 --> 00:04:10,540
prevented this she could have prevented

90
00:04:07,840 --> 00:04:12,640
this she turned her back on what we

91
00:04:10,539 --> 00:04:15,159
might call traditional evidence-based

92
00:04:12,639 --> 00:04:18,519
scientific medicine went down the path

93
00:04:15,159 --> 00:04:21,668
of natural health and all this sort of

94
00:04:18,519 --> 00:04:23,590
thing and it turned out it didn't do her

95
00:04:21,668 --> 00:04:26,740
any good so we'll be discussing her

96
00:04:23,589 --> 00:04:28,839
story a bit later in the show but Joe

97
00:04:26,740 --> 00:04:30,490
listeners may have spotted something a

98
00:04:28,839 --> 00:04:32,529
little bit unusual about the beginning

99
00:04:30,490 --> 00:04:35,228
of the show before theme music yes that

100
00:04:32,529 --> 00:04:37,359

was Leonard Nimoy the voice of spot the

101

00:04:35,228 --> 00:04:40,418
voice of Atlanta domoi doing the

102

00:04:37,360 --> 00:04:42,098
introduction to a very famous show he

103

00:04:40,418 --> 00:04:45,339
did in the 70s and the early 80s called

104

00:04:42,098 --> 00:04:47,680
in search of now Joe is a little a

105

00:04:45,339 --> 00:04:50,549
little skeptical Richard Saunders not so

106

00:04:47,680 --> 00:04:53,410
skeptical in the 1970s watching TV

107

00:04:50,550 --> 00:04:55,150
watching in search of of Leonard Nimoy

108

00:04:53,410 --> 00:04:57,220
and he's looking for in that case

109

00:04:55,149 --> 00:05:00,129
Bigfoot or the Loch Ness monster and all

110

00:04:57,220 --> 00:05:01,240
sorts of stuff and we bought it you know

111

00:05:00,129 --> 00:05:03,519
we thought these things were

112

00:05:01,240 --> 00:05:05,620
documentaries and when when I was

113

00:05:03,519 --> 00:05:07,918
younger it was quite something don't

114

00:05:05,620 --> 00:05:11,139
wonder how many people who enjoy these

115
00:05:07,918 --> 00:05:13,689
cryptozoology shows and I've enjoyed

116
00:05:11,139 --> 00:05:15,699
such shows myself actually use that as

117
00:05:13,689 --> 00:05:18,819
kind of a gateway towards skepticism

118
00:05:15,699 --> 00:05:20,348
asking more questions and finding out

119
00:05:18,819 --> 00:05:24,430
where to find them it's absolutely true

120
00:05:20,348 --> 00:05:26,348
and I think I mean as a geek in you're a

121
00:05:24,430 --> 00:05:28,598
geek and i'ma geek them with lots of a

122
00:05:26,348 --> 00:05:30,519
14-6 and nerds and things like that of

123
00:05:28,598 --> 00:05:32,199
course we're saddened that Leonard Nimoy

124
00:05:30,519 --> 00:05:34,779
died because we enjoyed these

125
00:05:32,199 --> 00:05:35,819
performances Spock very much but when

126
00:05:34,779 --> 00:05:38,099
you look at the man

127
00:05:35,819 --> 00:05:40,800
himself in a strange sort of way he

128
00:05:38,100 --> 00:05:44,430
inspired science and two very different

129
00:05:40,800 --> 00:05:47,420
ways one is enlarged Lee credited to

130
00:05:44,430 --> 00:05:50,040
Star Trek inspiring people to pursue a

131
00:05:47,420 --> 00:05:51,060
career in science a lot of lots of

132
00:05:50,040 --> 00:05:53,010
people around the world millions

133
00:05:51,060 --> 00:05:56,490
probably over the years were inspired by

134
00:05:53,009 --> 00:05:58,199
what they saw in Star Trek to to follow

135
00:05:56,490 --> 00:06:01,050
a scientific course in their life I

136
00:05:58,199 --> 00:06:03,750
think yes certainly on a lot of NASA's

137
00:06:01,050 --> 00:06:05,520
social fades and also the astronauts up

138
00:06:03,750 --> 00:06:07,829
on the space station at the moment have

139
00:06:05,519 --> 00:06:10,859
been posting tributes saying that they

140
00:06:07,829 --> 00:06:13,229
were incredibly inspired by Spock as a

141
00:06:10,860 --> 00:06:15,120
science officer and I think having

142
00:06:13,230 --> 00:06:18,480
somebody like that in pop culture is

143

00:06:15,120 --> 00:06:20,610
absolutely fantastic that it gave me a

144
00:06:18,480 --> 00:06:26,400
bit of nerd pride I've gotta say but

145
00:06:20,610 --> 00:06:27,720
also spoke was a pop culture icon who it

146
00:06:26,399 --> 00:06:31,589
was a positive thing that he was

147
00:06:27,720 --> 00:06:33,900
rational and it promoted rationale for

148
00:06:31,589 --> 00:06:36,179
I'm willing to say I think you're right

149
00:06:33,899 --> 00:06:38,939
and the other the other thing we just

150
00:06:36,180 --> 00:06:41,970
mentioned this in search of well it

151
00:06:38,939 --> 00:06:45,449
really sparked my interest in in in

152
00:06:41,970 --> 00:06:47,130
bizarre strange cryptozoology UFOs

153
00:06:45,449 --> 00:06:51,060
monsters and this sort of thing or it

154
00:06:47,129 --> 00:06:53,250
helped it fueled up um so in that

155
00:06:51,060 --> 00:06:54,870
respect to I think we owe him something

156
00:06:53,250 --> 00:06:57,360
even though we look at in search of now

157
00:06:54,870 --> 00:06:59,819

and if folks if you go to a new tube or

158

00:06:57,360 --> 00:07:02,400

just google in search of there are many

159

00:06:59,819 --> 00:07:06,800

episodes on youtube which are well they

160

00:07:02,399 --> 00:07:09,779

don't really stand up I must say he is

161

00:07:06,800 --> 00:07:11,790

nevertheless nevertheless there there

162

00:07:09,779 --> 00:07:13,259

there there for you to enjoy the good

163

00:07:11,790 --> 00:07:16,110

for research and things like that that

164

00:07:13,259 --> 00:07:17,789

show actually started in the in the me

165

00:07:16,110 --> 00:07:20,670

about the mid-70s and read all the way

166

00:07:17,790 --> 00:07:23,700

to 1982 would Leonard Nimoy doing in

167

00:07:20,670 --> 00:07:27,300

search of so yes I said a sad week in

168

00:07:23,699 --> 00:07:29,039

that respect um but it was good that he

169

00:07:27,300 --> 00:07:30,540

did all the things that he did and

170

00:07:29,040 --> 00:07:33,210

accomplished all the things he did in

171

00:07:30,540 --> 00:07:35,610

his life absolutely alright Joe it's

172
00:07:33,209 --> 00:07:37,769
time for you and I to run up the street

173
00:07:35,610 --> 00:07:40,770
oh yes we're going to run up the street

174
00:07:37,769 --> 00:07:42,839
in this weather mmm we're going to drive

175
00:07:40,769 --> 00:07:44,459
up the street to our club the for our

176
00:07:42,839 --> 00:07:46,379
famous club just up the end of the road

177
00:07:44,459 --> 00:07:47,389
there I might have a spicy chicken

178
00:07:46,379 --> 00:07:48,469
burger

179
00:07:47,389 --> 00:07:51,789
what do you think what do you think

180
00:07:48,470 --> 00:07:55,040
you'll have I think I'll go with a salad

181
00:07:51,790 --> 00:07:57,590
okay well we're doing that trying to

182
00:07:55,040 --> 00:08:01,210
avoid the the coming storm we hope you

183
00:07:57,589 --> 00:08:01,209
enjoyed the skeptic sign

184
00:08:13,800 --> 00:08:21,228
here's may not spooky action at the

185
00:08:18,720 --> 00:08:21,229
distance

186
00:08:21,899 --> 00:08:26,259
well I'm talking to someone now who's

187
00:08:24,310 --> 00:08:28,240
been to university for more than the day

188
00:08:26,259 --> 00:08:29,889
that I was there someone i just spent a

189
00:08:28,240 --> 00:08:31,480
lot of time it stands by at newcastle

190
00:08:29,889 --> 00:08:33,519
university but so where did you go to

191
00:08:31,480 --> 00:08:35,830
and what is your position in indeed who

192
00:08:33,519 --> 00:08:37,210
are you well my name is dr. Alex Roy

193
00:08:35,830 --> 00:08:40,360
Beck I'm president of the Australian

194
00:08:37,210 --> 00:08:42,160
drug reform foundation and I went to

195
00:08:40,360 --> 00:08:46,419
Melbourne University and studied

196
00:08:42,159 --> 00:08:49,620
medicine in the 1960s and then I've been

197
00:08:46,419 --> 00:08:52,569
working as a doctor for 40 years

198
00:08:49,620 --> 00:08:54,190
including 30 years at sin Vincent's

199
00:08:52,570 --> 00:08:56,680
Hospital Sydney running the alcohol and

200

00:08:54,190 --> 00:08:58,810
drug service with your interest in the

201
00:08:56,679 --> 00:09:01,149
alcohol problem it would be universally

202
00:08:58,809 --> 00:09:03,669
recognized that prohibition was the

203
00:09:01,149 --> 00:09:05,829
worst way to approach the alcohol

204
00:09:03,669 --> 00:09:07,689
problem in the u.s. is that acknowledged

205
00:09:05,830 --> 00:09:11,259
and why isn't that passed on to other

206
00:09:07,690 --> 00:09:13,750
drugs yes it certainly recognized in the

207
00:09:11,259 --> 00:09:16,389
United States no politician of serious

208
00:09:13,750 --> 00:09:18,759
politician whatever recommend in the

209
00:09:16,389 --> 00:09:24,069
United States to be back to bring it

210
00:09:18,759 --> 00:09:26,679
back and it has been tried in 15 or 20

211
00:09:24,070 --> 00:09:29,710
countries around the world and it's

212
00:09:26,679 --> 00:09:31,719
indeed it's it's currently adopted and

213
00:09:29,710 --> 00:09:34,389
implemented in half a dozen countries

214
00:09:31,720 --> 00:09:37,379

mainly around the Gulf but other

215

00:09:34,389 --> 00:09:41,860

countries like India have implemented it

216

00:09:37,379 --> 00:09:45,070

and largely abandoned it so it's not

217

00:09:41,860 --> 00:09:47,649

completely dead the there isn't quite a

218

00:09:45,070 --> 00:09:50,940

relationship between abandoning alcohol

219

00:09:47,649 --> 00:09:54,100

prohibition in 1932 and then the

220

00:09:50,940 --> 00:09:55,900

adoption of prohibition against other

221

00:09:54,100 --> 00:09:58,360

psychoactive some other psychoactive

222

00:09:55,899 --> 00:10:00,870

substances in the United States and the

223

00:09:58,360 --> 00:10:04,899

United States has been very evangelical

224

00:10:00,870 --> 00:10:06,970

outside its own country in encouraging

225

00:10:04,899 --> 00:10:11,860

or in some cases forcing other countries

226

00:10:06,970 --> 00:10:13,690

to ban other drugs it's now clear within

227

00:10:11,860 --> 00:10:18,639

the united states that drug prohibition

228

00:10:13,690 --> 00:10:21,940

has got a limited life but getting rid

229
00:10:18,639 --> 00:10:24,340
of it is is not going to be easy either

230
00:10:21,940 --> 00:10:26,500
because there are so many people who

231
00:10:24,340 --> 00:10:27,470
make a good living out of drug

232
00:10:26,500 --> 00:10:30,379
prohibition in

233
00:10:27,470 --> 00:10:33,259
leading all the people in customs police

234
00:10:30,379 --> 00:10:36,500
courts and prisons the whole criminal

235
00:10:33,259 --> 00:10:39,169
justice system politicians have had an

236
00:10:36,500 --> 00:10:40,759
easy ride out of drug prohibition so

237
00:10:39,169 --> 00:10:43,029
they'll be reluctant to give up

238
00:10:40,759 --> 00:10:45,559
something that's made it so easy for

239
00:10:43,029 --> 00:10:48,230
unelectable politicians to get elected

240
00:10:45,559 --> 00:10:51,949
and re-elected and then we've got all

241
00:10:48,230 --> 00:10:54,950
the people who run private prisons we've

242
00:10:51,950 --> 00:10:57,050
got government officials who will see

243
00:10:54,950 --> 00:10:59,450
their jobs being threatened if drug

244
00:10:57,049 --> 00:11:02,779
prohibition goes present Eisenhower's

245
00:10:59,450 --> 00:11:06,290
famous for identifying the so-called

246
00:11:02,779 --> 00:11:08,659
military industrial complex in 1961 and

247
00:11:06,289 --> 00:11:11,209
many people now talk about the prison

248
00:11:08,659 --> 00:11:13,279
industrial complex in the United States

249
00:11:11,210 --> 00:11:16,160
and other countries as well there's a

250
00:11:13,279 --> 00:11:19,069
huge vested interest that wants to keep

251
00:11:16,159 --> 00:11:21,860
this policy even though it has failed so

252
00:11:19,070 --> 00:11:24,860
miserably yes look this is a debate that

253
00:11:21,860 --> 00:11:28,960
is very difficult I've been engaged in

254
00:11:24,860 --> 00:11:33,110
this debate now for since 1987 up until

255
00:11:28,960 --> 00:11:35,810
recent years my opponents have had the

256
00:11:33,110 --> 00:11:38,570
best sound bites and a lot of this

257

00:11:35,809 --> 00:11:41,869
debate has been conducted at a very

258
00:11:38,570 --> 00:11:44,629
superficial unsophisticated level

259
00:11:41,870 --> 00:11:46,909
playing on people's fears and anxieties

260
00:11:44,629 --> 00:11:50,419
now that's fair enough to some extent

261
00:11:46,909 --> 00:11:52,189
but it's only in recent times of the

262
00:11:50,419 --> 00:11:54,139
debate has really got serious and and

263
00:11:52,190 --> 00:11:57,710
that the some degree of sophistication

264
00:11:54,139 --> 00:12:01,250
has appeared in this debate so part of

265
00:11:57,710 --> 00:12:02,780
the problem is a 1977 Senate inquire in

266
00:12:01,250 --> 00:12:05,059
Australia called the drug problem

267
00:12:02,779 --> 00:12:11,029
problem that the poor quality of the

268
00:12:05,059 --> 00:12:14,209
discussion and and reducing a complex

269
00:12:11,029 --> 00:12:17,659
topic to absurdly ridiculous absurdly

270
00:12:14,210 --> 00:12:19,730
simple sort of sound bites has made it

271
00:12:17,659 --> 00:12:21,799

much more difficult to discuss this

272

00:12:19,730 --> 00:12:23,509

issue is this somewhere in the world

273

00:12:21,799 --> 00:12:25,639

that we can point to that's doing it

274

00:12:23,509 --> 00:12:27,110

right by your thinking we could go well

275

00:12:25,639 --> 00:12:31,149

perhaps we could adopt some of their

276

00:12:27,110 --> 00:12:33,680

ideas yes well Europe started to

277

00:12:31,149 --> 00:12:35,960

acknowledge that this that we were going

278

00:12:33,679 --> 00:12:40,299

nowhere with this and the Netherlands in

279

00:12:35,960 --> 00:12:43,100

the 1970s early 1970s held two

280

00:12:40,299 --> 00:12:46,159

commissions and after the second of

281

00:12:43,100 --> 00:12:48,889

those commissions they started to slowly

282

00:12:46,159 --> 00:12:50,449

but surely move away from a drug

283

00:12:48,889 --> 00:12:53,389

prohibition system and they tried to

284

00:12:50,450 --> 00:12:55,490

separate the market for cannabis from

285

00:12:53,389 --> 00:12:59,539

the market for other illicit drugs which

286
00:12:55,490 --> 00:13:01,669
was which has worked and they did a lot

287
00:12:59,539 --> 00:13:03,409
of things that were that helped to

288
00:13:01,669 --> 00:13:07,819
reduce drug problems in the Netherlands

289
00:13:03,409 --> 00:13:09,679
Switzerland in the 1990s was also took

290
00:13:07,820 --> 00:13:14,600
at another stage further than Portugal

291
00:13:09,679 --> 00:13:18,439
in 2001 introduced a different approach

292
00:13:14,600 --> 00:13:21,889
but also that worked but these will

293
00:13:18,440 --> 00:13:24,970
really all fairly minor reforms just

294
00:13:21,889 --> 00:13:29,449
reforms around the edges and it's really

295
00:13:24,970 --> 00:13:31,970
in the last five years that the reforms

296
00:13:29,450 --> 00:13:34,160
have started in the Americas in the

297
00:13:31,970 --> 00:13:37,339
United States and in Central and South

298
00:13:34,159 --> 00:13:39,528
America what's what's driven that has it

299
00:13:37,339 --> 00:13:41,600
been a sudden awakening of common sense

300
00:13:39,528 --> 00:13:43,939
or that decided that they can get some

301
00:13:41,600 --> 00:13:46,220
tax money for this is there some

302
00:13:43,940 --> 00:13:47,660
imperative that they have that they've

303
00:13:46,220 --> 00:13:51,500
been missing that they've suddenly woken

304
00:13:47,659 --> 00:13:54,669
up to well you have to really go to the

305
00:13:51,500 --> 00:13:58,669
American hemisphere and see for yourself

306
00:13:54,669 --> 00:14:00,919
just how traumatized the American

307
00:13:58,669 --> 00:14:04,669
hemisphere has been by drug prohibition

308
00:14:00,919 --> 00:14:07,219
and especially the Central and South

309
00:14:04,669 --> 00:14:10,009
America the countries that talk most

310
00:14:07,220 --> 00:14:11,899
about how terrible is drugs are other

311
00:14:10,009 --> 00:14:13,970
rich countries like Australia but the

312
00:14:11,899 --> 00:14:15,980
countries that really suffer from drugs

313
00:14:13,970 --> 00:14:18,200
are the countries are suffer from drug

314

00:14:15,980 --> 00:14:20,870
prohibition and they are by and large

315
00:14:18,200 --> 00:14:23,028
the producer countries and the transit

316
00:14:20,870 --> 00:14:25,250
countries and there are many producer

317
00:14:23,028 --> 00:14:27,860
and transit countries in Central and

318
00:14:25,250 --> 00:14:30,740
South America and what happens is that a

319
00:14:27,860 --> 00:14:35,240
lot of the drugs are produced in in

320
00:14:30,740 --> 00:14:37,070
Latin America and and supplied to the

321
00:14:35,240 --> 00:14:39,019
country which has got the largest

322
00:14:37,070 --> 00:14:40,760
consumption the largest amount in the

323
00:14:39,019 --> 00:14:43,139
world in the United States and so as

324
00:14:40,759 --> 00:14:46,048
these drugs go up this very

325
00:14:43,139 --> 00:14:50,369
we narrow her isthmus connecting South

326
00:14:46,048 --> 00:14:52,009
America and North America the the battle

327
00:14:50,369 --> 00:14:55,439
between law enforcement and the

328
00:14:52,009 --> 00:14:58,769

trafficking organizations reaches a very

329

00:14:55,438 --> 00:15:02,099

intense level and there's carnage left

330

00:14:58,769 --> 00:15:04,918

right and center kidnappings extortion

331

00:15:02,100 --> 00:15:07,619

political corruption and life is

332

00:15:04,918 --> 00:15:10,708

unbearable and I've seen this myself in

333

00:15:07,619 --> 00:15:12,928

in Mexico and Mexico at the moment is in

334

00:15:10,708 --> 00:15:15,088

real turmoil it's a real lesson to the

335

00:15:12,928 --> 00:15:17,999

rest of the world this is what happens

336

00:15:15,089 --> 00:15:20,579

with drug prohibition so whatever you do

337

00:15:17,999 --> 00:15:23,879

don't do what is happening in South

338

00:15:20,578 --> 00:15:26,668

America so really it's it's Central and

339

00:15:23,879 --> 00:15:29,100

South America that have forced North

340

00:15:26,668 --> 00:15:32,428

America US and Canada to start taking

341

00:15:29,100 --> 00:15:35,129

this issue seriously and a lot of people

342

00:15:32,428 --> 00:15:38,458

in the United States now can see with

343
00:15:35,129 --> 00:15:40,798
their own eyes just how damaging drug

344
00:15:38,458 --> 00:15:42,448
prohibition has been for people in

345
00:15:40,798 --> 00:15:44,338
Central and South America that's why

346
00:15:42,448 --> 00:15:47,338
this is really changing around the world

347
00:15:44,339 --> 00:15:50,100
it was a commission of former presence

348
00:15:47,339 --> 00:15:52,379
in South America that first started

349
00:15:50,100 --> 00:15:54,778
ringing the alarm bells and that led to

350
00:15:52,379 --> 00:15:57,449
the global Commission on drug policy in

351
00:15:54,778 --> 00:16:00,298
june two thousand eleven and that's led

352
00:15:57,448 --> 00:16:04,048
to a huge reaction around the world mmm

353
00:16:00,298 --> 00:16:05,519
and in this country we would it with

354
00:16:04,048 --> 00:16:07,708
different kinds of drugs have their own

355
00:16:05,519 --> 00:16:09,629
problems like like the ice problem is

356
00:16:07,708 --> 00:16:11,039
different to what people call a cannabis

357
00:16:09,629 --> 00:16:13,350
problem and that sort of thing so you

358
00:16:11,039 --> 00:16:15,360
would go very slowly and carefully

359
00:16:13,350 --> 00:16:18,329
through any sort of regulation wouldn't

360
00:16:15,360 --> 00:16:20,129
you no quite the opposite why does

361
00:16:18,328 --> 00:16:23,308
Australia have a nice problem Australia

362
00:16:20,129 --> 00:16:25,938
has a nice problem thank you due to drug

363
00:16:23,308 --> 00:16:28,738
prohibition we before we had powder

364
00:16:25,938 --> 00:16:31,980
methamphetamine but powder

365
00:16:28,739 --> 00:16:34,288
methamphetamine is is a salt dissolves

366
00:16:31,980 --> 00:16:36,959
easily in water very difficult to

367
00:16:34,288 --> 00:16:39,168
vaporize whereas a crystalline

368
00:16:36,958 --> 00:16:41,448
methamphetamine so-called ice is

369
00:16:39,168 --> 00:16:43,828
difficult dissolve in water but

370
00:16:41,448 --> 00:16:46,378
vaporizes very readily low melting point

371

00:16:43,828 --> 00:16:49,198
and so if you want to inhale that argue

372
00:16:46,379 --> 00:16:51,480
it's very easy to and if you inhale the

373
00:16:49,198 --> 00:16:52,979
drug its rapidly absorbed it goes from

374
00:16:51,480 --> 00:16:54,089
the air compartment of the lungs into

375
00:16:52,980 --> 00:16:56,730
the blood very

376
00:16:54,089 --> 00:16:59,100
rapidly and then it's from seven seconds

377
00:16:56,730 --> 00:17:01,709
from the lung to the brain and that

378
00:16:59,100 --> 00:17:05,250
means very little dilution and that

379
00:17:01,708 --> 00:17:07,288
means the huge bang for the buck that if

380
00:17:05,250 --> 00:17:09,838
somebody is taking vaporized

381
00:17:07,288 --> 00:17:12,900
methamphetamine it's exactly like taking

382
00:17:09,838 --> 00:17:15,720
crack cocaine that the whole process is

383
00:17:12,900 --> 00:17:19,980
accelerated and that means greater

384
00:17:15,720 --> 00:17:22,439
impact but also greater toxicity so for

385
00:17:19,980 --> 00:17:24,959

the buyer and greater benefits more

386

00:17:22,439 --> 00:17:27,990

cost-effective but also unfortunately

387

00:17:24,959 --> 00:17:30,840

more damage to them and their loved ones

388

00:17:27,990 --> 00:17:33,839

and their community and we got the air

389

00:17:30,839 --> 00:17:37,678

through drug prohibition because if if a

390

00:17:33,839 --> 00:17:41,069

is selling ice and B is selling powder

391

00:17:37,679 --> 00:17:45,059

methamphetamine well the guy selling the

392

00:17:41,069 --> 00:17:46,950

ice is going to shifty his or her

393

00:17:45,058 --> 00:17:49,619

product much faster than the guy selling

394

00:17:46,950 --> 00:17:52,319

be and get a better price for this is

395

00:17:49,619 --> 00:17:54,778

what drives the prohibition the market

396

00:17:52,319 --> 00:17:58,230

under prohibition and we can only

397

00:17:54,778 --> 00:18:02,210

reverse that by taking away the

398

00:17:58,230 --> 00:18:04,950

prohibition framework and so what will

399

00:18:02,210 --> 00:18:07,950

have to happen is that we will have to

400
00:18:04,950 --> 00:18:11,190
have some legal regulated form of

401
00:18:07,950 --> 00:18:13,649
stimulant that people can buy it won't

402
00:18:11,190 --> 00:18:15,509
be rocket fuel like ice it won't even be

403
00:18:13,648 --> 00:18:17,428
rocket fuel like pound of

404
00:18:15,509 --> 00:18:20,548
methamphetamine but it'll be something

405
00:18:17,429 --> 00:18:23,340
and that the community can live with and

406
00:18:20,548 --> 00:18:25,798
that people can take and not damage

407
00:18:23,339 --> 00:18:27,509
themselves irreparably so we'll have to

408
00:18:25,798 --> 00:18:29,460
have some kind of compromise and will

409
00:18:27,509 --> 00:18:32,548
take us a while to work that out and I

410
00:18:29,460 --> 00:18:35,970
think we'll end up with some form of

411
00:18:32,548 --> 00:18:39,359
compromise sedative drug and some

412
00:18:35,970 --> 00:18:42,269
compromise stimulant drug and some

413
00:18:39,359 --> 00:18:44,099
compromise hallucinogenic drug and we

414
00:18:42,269 --> 00:18:46,710
already have that in a sense with

415
00:18:44,099 --> 00:18:49,459
methadone which is a drug that the

416
00:18:46,710 --> 00:18:51,659
communities not that crazy about and

417
00:18:49,460 --> 00:18:54,259
frankly heroin users aren't all that

418
00:18:51,659 --> 00:18:56,760
crazy about but it's compromise that the

419
00:18:54,259 --> 00:19:00,028
community and the heroin users can both

420
00:18:56,759 --> 00:19:03,089
live with and then we can try and get

421
00:19:00,028 --> 00:19:04,279
doctors not easy to to actually

422
00:19:03,089 --> 00:19:06,500
prescribe the drug and look

423
00:19:04,279 --> 00:19:09,529
after people who have got severe heroin

424
00:19:06,500 --> 00:19:11,509
problems so this is I think a model and

425
00:19:09,529 --> 00:19:14,509
that's why it's been so fiercely

426
00:19:11,509 --> 00:19:16,220
attacked by the supporters of drug

427
00:19:14,509 --> 00:19:19,009
prohibition because they can see that it

428

00:19:16,220 --> 00:19:22,339
works they can see that it's not perfect

429
00:19:19,009 --> 00:19:24,230
but the benefits are huge the unintended

430
00:19:22,339 --> 00:19:27,709
negative consequences are there but

431
00:19:24,230 --> 00:19:30,650
they're not huge either and it's it

432
00:19:27,710 --> 00:19:32,360
saves us a bundle of money if every

433
00:19:30,650 --> 00:19:35,120
dollar we spend on that as a community

434
00:19:32,359 --> 00:19:37,279
the community saves about seven dollars

435
00:19:35,119 --> 00:19:38,959
so i think that's the model that we're

436
00:19:37,279 --> 00:19:42,109
going to see more and more with the

437
00:19:38,960 --> 00:19:44,059
other categories of drugs you have to

438
00:19:42,109 --> 00:19:46,750
remember also that there's a lot more

439
00:19:44,059 --> 00:19:49,369
going on and people recognize that

440
00:19:46,750 --> 00:19:52,640
people who sell legal drugs like alcohol

441
00:19:49,369 --> 00:19:54,589
play up the whole debate about illicit

442
00:19:52,640 --> 00:19:57,500

drugs because it makes their product

443

00:19:54,589 --> 00:20:00,799

people forget about the carnage the

444

00:19:57,500 --> 00:20:03,799

social damage the violence and the

445

00:20:00,799 --> 00:20:06,859

corruption the terrible things that

446

00:20:03,799 --> 00:20:09,470

alcohol does in our community and so the

447

00:20:06,859 --> 00:20:11,779

the the people who sell alcohol canned

448

00:20:09,470 --> 00:20:13,490

more or less do whatever they want to do

449

00:20:11,779 --> 00:20:15,410

with very little interference from

450

00:20:13,490 --> 00:20:19,039

politicians and they've become very

451

00:20:15,410 --> 00:20:20,720

powerful and we mustn't ever let the

452

00:20:19,039 --> 00:20:22,490

illicit market behave like the alcohol

453

00:20:20,720 --> 00:20:24,950

market that's truly is one of the

454

00:20:22,490 --> 00:20:26,480

lessons to be learned look it was driven

455

00:20:24,950 --> 00:20:28,160

home a little bit to me where I think

456

00:20:26,480 --> 00:20:29,839

was on Mardi Gras night in Sydney last

457
00:20:28,160 --> 00:20:31,820
year there was a record number of people

458
00:20:29,839 --> 00:20:33,829
arrested going into mardi gras with some

459
00:20:31,819 --> 00:20:36,259
small amount of drugs on the menai and i

460
00:20:33,829 --> 00:20:37,789
really thought that that is that is just

461
00:20:36,259 --> 00:20:39,319
the most useless waste of law

462
00:20:37,789 --> 00:20:41,299
enforcement as these people are going to

463
00:20:39,319 --> 00:20:43,460
a party and here they are ending up in

464
00:20:41,299 --> 00:20:46,849
court on Monday morning well that police

465
00:20:43,460 --> 00:20:48,620
are trying to do something to

466
00:20:46,849 --> 00:20:51,199
demonstrate that they are doing

467
00:20:48,619 --> 00:20:54,279
something and they're doing that because

468
00:20:51,200 --> 00:20:57,140
they are their political masters

469
00:20:54,279 --> 00:21:00,109
appreciate the police being seen to be

470
00:20:57,140 --> 00:21:03,170
doing something and we see that with the

471
00:21:00,109 --> 00:21:05,479
sniffer dog issue very much so where

472
00:21:03,170 --> 00:21:07,600
there is an appalling lee high rate of

473
00:21:05,480 --> 00:21:11,700
false positives and false negatives

474
00:21:07,599 --> 00:21:15,089
there's a lot of money wasted

475
00:21:11,700 --> 00:21:18,400
totally wasted on the sniffer dogs and

476
00:21:15,089 --> 00:21:21,339
where initially the police claimed that

477
00:21:18,400 --> 00:21:23,850
this was to catch drug traffickers but

478
00:21:21,339 --> 00:21:26,079
only point one nine percent of of

479
00:21:23,849 --> 00:21:29,319
sniffer dog detection Zach chua Lee

480
00:21:26,079 --> 00:21:31,119
result in a successful charge being

481
00:21:29,319 --> 00:21:33,129
brought against somebody that's

482
00:21:31,119 --> 00:21:35,079
incredibly inefficient yes it is

483
00:21:33,130 --> 00:21:37,840
incredibly inefficient and this is now

484
00:21:35,079 --> 00:21:41,379
starting to come out and worst of all is

485

00:21:37,839 --> 00:21:45,250
the fact that people who are confronted

486
00:21:41,380 --> 00:21:48,250
by a sniffer dog almost all find it very

487
00:21:45,250 --> 00:21:51,130
unpleasant very confronting some people

488
00:21:48,250 --> 00:21:52,960
find it quite frightening and urban in

489
00:21:51,130 --> 00:21:55,240
nightclubs and dogs have gone through

490
00:21:52,960 --> 00:21:57,460
and it just makes you think you're

491
00:21:55,240 --> 00:21:59,230
living in a george orwell novel but

492
00:21:57,460 --> 00:22:01,630
worst of all the worst thing about the

493
00:21:59,230 --> 00:22:04,900
sniffer dogs is that they convert a a

494
00:22:01,630 --> 00:22:08,260
slight problem into a much more serious

495
00:22:04,900 --> 00:22:10,600
problem and a lot of people seeing a one

496
00:22:08,259 --> 00:22:12,548
or more sniffer dogs approaching swallow

497
00:22:10,599 --> 00:22:14,439
all the evidence they've got on them so

498
00:22:12,548 --> 00:22:16,629
that there's no evidence to find it's in

499
00:22:14,440 --> 00:22:20,679

their tummy and some of those people

500

00:22:16,630 --> 00:22:23,020
died so a policy that is meant to

501

00:22:20,679 --> 00:22:24,820
protect our health and well-being turns

502

00:22:23,019 --> 00:22:27,668
out to be a risk to our health and

503

00:22:24,819 --> 00:22:31,408
well-being and I think we're going to

504

00:22:27,669 --> 00:22:34,120
see the sniffer dog intervention

505

00:22:31,409 --> 00:22:37,030
disappear in Australia in the next few

506

00:22:34,119 --> 00:22:39,399
years and and it should disappear right

507

00:22:37,029 --> 00:22:41,230
now now for our listeners is there a

508

00:22:39,400 --> 00:22:43,390
website where we can go to and get some

509

00:22:41,230 --> 00:22:44,919
concise arguments on this and the way

510

00:22:43,390 --> 00:22:47,140
forward and is there something we can do

511

00:22:44,919 --> 00:22:48,730
politically you can join the Australian

512

00:22:47,140 --> 00:22:50,320
drug law reform foundation we've got a

513

00:22:48,730 --> 00:22:53,440
website you can join through the website

514
00:22:50,319 --> 00:22:56,439
you can join unharmed and harm mainly

515
00:22:53,440 --> 00:22:58,120
works with young people mass audiences

516
00:22:56,440 --> 00:23:00,700
and Australian drug law reform

517
00:22:58,119 --> 00:23:02,979
foundation does a lot of networking with

518
00:23:00,700 --> 00:23:06,610
behind the scenes with politicians from

519
00:23:02,980 --> 00:23:09,788
all parties and other opinion leaders so

520
00:23:06,609 --> 00:23:13,119
we work together very closely and I

521
00:23:09,788 --> 00:23:15,099
think what people can do is write

522
00:23:13,119 --> 00:23:19,029
letters to the editor of newspapers they

523
00:23:15,099 --> 00:23:21,339
can ring up talkback radio they can go

524
00:23:19,029 --> 00:23:24,329
and see their members of parliament

525
00:23:21,339 --> 00:23:27,490
Commonwealth state territory they can

526
00:23:24,329 --> 00:23:29,859
write to their members of parliament all

527
00:23:27,490 --> 00:23:32,859
of these things are well worth doing and

528
00:23:29,859 --> 00:23:35,459
they do have an impact we all should be

529
00:23:32,859 --> 00:23:38,529
very skeptical of all of the evidence

530
00:23:35,460 --> 00:23:40,480
people on the drug law reform side look

531
00:23:38,529 --> 00:23:44,170
at their evidence skeptic lead people on

532
00:23:40,480 --> 00:23:46,089
the who support the war on drugs look at

533
00:23:44,170 --> 00:23:49,539
their evidence skeptically we we should

534
00:23:46,089 --> 00:23:53,500
we don't accept anything hold it up to

535
00:23:49,539 --> 00:23:56,139
the light look at it upside down check

536
00:23:53,500 --> 00:24:00,690
the sources bringing a critical thinking

537
00:23:56,140 --> 00:24:03,790
with you absolutely in spades and I

538
00:24:00,690 --> 00:24:07,029
really do try in the work I do and I

539
00:24:03,789 --> 00:24:10,470
have for a long time to be very

540
00:24:07,029 --> 00:24:14,529
scrupulous totally scrupulous about the

541
00:24:10,470 --> 00:24:16,900
what I regard as evidence and I use the

542

00:24:14,529 --> 00:24:19,750
kind of tests that are standard in in

543
00:24:16,900 --> 00:24:22,720
medicine and we need to increasingly

544
00:24:19,750 --> 00:24:25,180
have an evidence-based approach not just

545
00:24:22,720 --> 00:24:29,289
in medicine but in social and public

546
00:24:25,180 --> 00:24:32,490
policy and that that has started but

547
00:24:29,289 --> 00:24:32,490
it's got a long way to go

548
00:24:50,170 --> 00:24:57,140
QED 2015 with Matt Dillahunty Lucy

549
00:24:54,079 --> 00:25:00,109
Greene Bruce hood and more tickets for

550
00:24:57,140 --> 00:25:01,550
QED 2015 are currently on sale to get

551
00:25:00,109 --> 00:25:04,399
your ticket to one of the highlights of

552
00:25:01,549 --> 00:25:08,539
the skeptical humanist calendar visit

553
00:25:04,400 --> 00:25:11,210
QED con dot org slash tickets and what a

554
00:25:08,539 --> 00:25:14,379
lineup QED has this year including oh

555
00:25:11,210 --> 00:25:17,900
one of my favorites dr. Harriet Hall I

556
00:25:14,380 --> 00:25:21,710

met Harriet years ago actually on a an

557

00:25:17,900 --> 00:25:23,630

amazing adventure the skeptic she's

558

00:25:21,710 --> 00:25:25,519

called absolutely worth the price of

559

00:25:23,630 --> 00:25:28,070

admission alone dr. Harriet Hall but of

560

00:25:25,519 --> 00:25:30,319

course professor bruce hood he's a funny

561

00:25:28,069 --> 00:25:32,089

guy he's great always good value all

562

00:25:30,319 --> 00:25:33,679

sorts of other people will be there Ritz

563

00:25:32,089 --> 00:25:35,839

will certainly know mitch benn who's

564

00:25:33,680 --> 00:25:38,480

going to be there and you can meet the

565

00:25:35,839 --> 00:25:41,149

one and only Michael Marshall as well as

566

00:25:38,480 --> 00:25:43,490

all the other merseyside skeptics and

567

00:25:41,150 --> 00:25:45,590

the skeptics from Manchester I had a

568

00:25:43,490 --> 00:25:47,240

great time at QED two years running I

569

00:25:45,589 --> 00:25:49,579

was there how lucky was high it

570

00:25:47,240 --> 00:25:52,430

certainly is one of the better skeptical

571
00:25:49,579 --> 00:25:55,369
conventions anywhere in the world don't

572
00:25:52,430 --> 00:25:59,000
delay get your ticket to QED con org

573
00:25:55,369 --> 00:26:01,189
slash tickets question explore discover

574
00:25:59,000 --> 00:26:03,829
and this is being held in Manchester of

575
00:26:01,190 --> 00:26:06,769
course at the Palace Hotel and that's

576
00:26:03,829 --> 00:26:09,049
where that area at trafford that's where

577
00:26:06,769 --> 00:26:10,700
my great grandmother came from so i've

578
00:26:09,049 --> 00:26:13,039
got a sort of a little connection with

579
00:26:10,700 --> 00:26:15,710
that area again QED what a great

580
00:26:13,039 --> 00:26:19,299
conference it is kicking off on friday

581
00:26:15,710 --> 00:26:19,299
the 24th of april

582
00:26:26,419 --> 00:26:32,730
on the nineteenth of february this year

583
00:26:29,909 --> 00:26:34,500
Professor Brian Schmidt was the guest of

584
00:26:32,730 --> 00:26:37,829
the Canberra skeptics and one of their

585
00:26:34,500 --> 00:26:40,140
regular talks his talk was entitled the

586
00:26:37,829 --> 00:26:42,089
future of science professor brian

587
00:26:40,140 --> 00:26:46,380
schmidt is a Nobel laureate having won

588
00:26:42,089 --> 00:26:48,298
the nobel prize in 2011 physics kevin

589
00:26:46,380 --> 00:26:50,669
davies from the camera skeptics caught

590
00:26:48,298 --> 00:26:54,119
up with professor Schmidt just after the

591
00:26:50,669 --> 00:26:55,890
talk thank you very much for speaking to

592
00:26:54,119 --> 00:26:57,719
us professor oh thank you very much has

593
00:26:55,890 --> 00:27:00,150
been a great fun what did you find most

594
00:26:57,720 --> 00:27:02,808
interesting about tonight's tool well it

595
00:27:00,150 --> 00:27:05,130
was a very diverse audience I had

596
00:27:02,808 --> 00:27:08,279
children asking questions from the age

597
00:27:05,130 --> 00:27:11,460
of about 72 people who were clearly in

598
00:27:08,279 --> 00:27:14,158
their 70s and we managed to cover just

599

00:27:11,460 --> 00:27:17,730
about everything from religion ethics

600
00:27:14,159 --> 00:27:20,669
the future of the universe the basics of

601
00:27:17,730 --> 00:27:23,779
the theory of everything so I think for

602
00:27:20,669 --> 00:27:27,840
me it was the diversity of both the

603
00:27:23,779 --> 00:27:30,000
questions asked and the audience going

604
00:27:27,839 --> 00:27:31,589
on to the topic ethics which was a

605
00:27:30,000 --> 00:27:34,970
fairly prominent one what is your

606
00:27:31,589 --> 00:27:39,720
opinion of the teacher of the ethical

607
00:27:34,970 --> 00:27:43,319
problems within science well I think we

608
00:27:39,720 --> 00:27:45,750
need to remind ourselves as scientists

609
00:27:43,319 --> 00:27:48,000
that ethics is an important part of what

610
00:27:45,750 --> 00:27:51,589
we do and sometimes we like to thank God

611
00:27:48,000 --> 00:27:54,359
we're not bound by ethics but ultimately

612
00:27:51,589 --> 00:27:56,099
because science is so powerful it can be

613
00:27:54,359 --> 00:27:58,979

used for good and can be used for bad

614

00:27:56,099 --> 00:28:01,709

and it certainly is very important at

615

00:27:58,980 --> 00:28:03,089

changing the world around us we have to

616

00:28:01,710 --> 00:28:05,250

realize that sometimes this is going to

617

00:28:03,089 --> 00:28:07,829

be acceptable and sometimes it's not and

618

00:28:05,250 --> 00:28:10,200

so you have to engage in the questions

619

00:28:07,829 --> 00:28:11,699

of ethics and I think you need to

620

00:28:10,200 --> 00:28:13,860

ultimately stick down to a set of

621

00:28:11,700 --> 00:28:16,380

fundamental principles and and make sure

622

00:28:13,859 --> 00:28:18,418

that we are willing to take the time to

623

00:28:16,380 --> 00:28:20,970

talk about the ethics and not just

624

00:28:18,419 --> 00:28:22,540

assume that everyone's else's ethics are

625

00:28:20,970 --> 00:28:24,309

going to be the same as our

626

00:28:22,539 --> 00:28:27,670

and there's really such a thing as an

627

00:28:24,309 --> 00:28:30,339

easy ethical question or answer so what

628
00:28:27,670 --> 00:28:32,380
are you working on now okay so the main

629
00:28:30,339 --> 00:28:34,659
thing I'm working on is using the sky

630
00:28:32,380 --> 00:28:36,190
map or telescope which is a relatively

631
00:28:34,660 --> 00:28:39,009
small telescope that has a huge digital

632
00:28:36,190 --> 00:28:42,400
camera on it 268 million pixels and

633
00:28:39,009 --> 00:28:45,279
we're scanning the entire sky and that

634
00:28:42,400 --> 00:28:46,990
survey is sort of the treasure map for

635
00:28:45,279 --> 00:28:51,250
using the biggest telescopes in the

636
00:28:46,990 --> 00:28:52,720
world to understand everything from does

637
00:28:51,250 --> 00:28:55,210
there life out there on other planets

638
00:28:52,720 --> 00:28:58,390
which we can hopefully see by binding

639
00:28:55,210 --> 00:28:59,950
nearby planets that go in front of their

640
00:28:58,390 --> 00:29:01,540
stars so we can pick up the trace

641
00:28:59,950 --> 00:29:04,240
elements of their atmosphere when they

642
00:29:01,539 --> 00:29:07,149
go in front with big telescopes of the

643
00:29:04,240 --> 00:29:09,160
future finding the oldest stars the

644
00:29:07,150 --> 00:29:12,040
first stars in the universe of which

645
00:29:09,160 --> 00:29:14,470
last year we got a early start on much

646
00:29:12,039 --> 00:29:16,960
to my surprise and discovered an object

647
00:29:14,470 --> 00:29:19,240
that was the first object not to have

648
00:29:16,960 --> 00:29:21,400
any iron in it so we think it was a star

649
00:29:19,240 --> 00:29:22,690
created from the remains of one of the

650
00:29:21,400 --> 00:29:25,180
first stars in the universe very

651
00:29:22,690 --> 00:29:27,430
exciting I look forward to hearing more

652
00:29:25,180 --> 00:29:29,500
about that so it looks like we'll get to

653
00:29:27,430 --> 00:29:32,230
head off to dinner so thank you very

654
00:29:29,500 --> 00:29:35,079
much professor brian schmidt hope to see

655
00:29:32,230 --> 00:29:37,529
you again in future my pleasure thank

656

00:29:35,079 --> 00:29:37,529
you very much

657
00:29:45,960 --> 00:29:52,419
hello skeptical ninjas my name is Jake

658
00:29:49,869 --> 00:29:55,449
far Wharton named Russ fault and we're

659
00:29:52,419 --> 00:29:57,909
from the Brisbane skeptics society we

660
00:29:55,450 --> 00:30:00,850
are here to announce the first round of

661
00:29:57,909 --> 00:30:02,980
speakers and amazing events for this

662
00:30:00,849 --> 00:30:05,079
year's national skeptic convention

663
00:30:02,980 --> 00:30:07,360
that'll be held in Brisbane on the

664
00:30:05,079 --> 00:30:10,778
sixteenth to the eighteenth of October

665
00:30:07,359 --> 00:30:13,449
at QUT Gardens point featuring speakers

666
00:30:10,778 --> 00:30:17,558
such as Nobel Prize winner Brian Schmidt

667
00:30:13,450 --> 00:30:20,860
Susan garba KO nikal cigna came polly

668
00:30:17,558 --> 00:30:24,609
worland dr. Peter ellerton catan Joshi

669
00:30:20,859 --> 00:30:26,319
Ross bausch & A panel on parenting

670
00:30:24,609 --> 00:30:28,329

skeptically featuring all of your

671

00:30:26,319 --> 00:30:31,628

favorite ladies from the skeptic zone on

672

00:30:28,329 --> 00:30:35,439

the afternoon of the 16th we're also

673

00:30:31,628 --> 00:30:37,000

hosting a free skeptic am not only that

674

00:30:35,440 --> 00:30:39,460

but in the evening we have a free

675

00:30:37,000 --> 00:30:43,259

skeptical variety show and let's not

676

00:30:39,460 --> 00:30:46,298

forget the gala dinner held on Saturday

677

00:30:43,259 --> 00:30:48,970

17th for more information about the

678

00:30:46,298 --> 00:30:51,878

National Convention go to convention

679

00:30:48,970 --> 00:30:53,679

Brisbane skeptics org and get yourself

680

00:30:51,878 --> 00:30:54,969

on the email list where you can be the

681

00:30:53,679 --> 00:30:56,830

first to know about the latest

682

00:30:54,970 --> 00:31:05,139

developments as well as when tickets go

683

00:30:56,829 --> 00:31:07,628

on sale welcome to weaken science from

684

00:31:05,138 --> 00:31:10,359

RI oz bringing you the science you need

685
00:31:07,628 --> 00:31:12,699
to know it's a here can Jimmy Anderson

686
00:31:10,359 --> 00:31:14,769
and Damien Fleming a masters of swinging

687
00:31:12,700 --> 00:31:16,419
a cricket ball in the air and I've got

688
00:31:14,769 --> 00:31:18,099
the differences between smooth and

689
00:31:16,419 --> 00:31:21,059
turbulent airflow to thank for their

690
00:31:18,099 --> 00:31:21,058
prodigious abilities

691
00:31:25,220 --> 00:31:29,700
when traveling through the air a cricket

692
00:31:27,779 --> 00:31:32,220
ball want to move towards the side which

693
00:31:29,700 --> 00:31:34,409
has the more turbulent airflow let me

694
00:31:32,220 --> 00:31:36,720
explain why to swing a cricket ball

695
00:31:34,409 --> 00:31:38,970
conventionally the seam is angled to one

696
00:31:36,720 --> 00:31:41,009
side meaning that as the ball flies

697
00:31:38,970 --> 00:31:43,890
through the air the smooth side of the

698
00:31:41,009 --> 00:31:45,808
ball causes smooth airflow but the same

699
00:31:43,890 --> 00:31:48,240
trips up the air and causes turbulence

700
00:31:45,808 --> 00:31:50,970
on the other side the turbulent air

701
00:31:48,240 --> 00:31:53,009
stays closed or attached to the ball for

702
00:31:50,970 --> 00:31:55,319
longer than the smooth laminar flowing

703
00:31:53,009 --> 00:31:57,150
side this causes a difference in

704
00:31:55,319 --> 00:31:58,769
pressure on each side of the ball with

705
00:31:57,150 --> 00:32:01,230
less pressure on the turbulent side

706
00:31:58,769 --> 00:32:03,750
making the ball move towards the same

707
00:32:01,230 --> 00:32:05,519
the maximum amounts of side force is

708
00:32:03,750 --> 00:32:08,460
generated at a bowling speed of around

709
00:32:05,519 --> 00:32:10,200
70 miles per hour what happens above

710
00:32:08,460 --> 00:32:15,929
that oh that's when we start getting

711
00:32:10,200 --> 00:32:17,788
reverse swing above 85 miles an hour the

712
00:32:15,929 --> 00:32:19,679
air doesn't need interference to start

713

00:32:17,788 --> 00:32:22,109
becoming turbulent on the surface of the

714
00:32:19,679 --> 00:32:24,298
bowl in this case the seam of the ball

715
00:32:22,109 --> 00:32:26,879
makes that already turbulent air even

716
00:32:24,298 --> 00:32:28,740
Messier this extra messy air will

717
00:32:26,880 --> 00:32:30,750
actually detach from the surface quicker

718
00:32:28,740 --> 00:32:32,788
than the modelling turbulent air on the

719
00:32:30,750 --> 00:32:35,429
other side causing the low air pressure

720
00:32:32,788 --> 00:32:37,890
to be on the opposite side and the ball

721
00:32:35,429 --> 00:32:39,538
swinging away from the same and if the

722
00:32:37,890 --> 00:32:42,090
ball is being bowled with the same

723
00:32:39,538 --> 00:32:43,980
straight the same forces are in play but

724
00:32:42,089 --> 00:32:46,199
using the smooth and rough sides of the

725
00:32:43,980 --> 00:32:49,259
ball to create different air flows on

726
00:32:46,200 --> 00:32:54,150
each side and now for fast facts about

727
00:32:49,259 --> 00:32:55,829

the science of sports this is a slightly

728

00:32:54,150 --> 00:32:58,140

different effect two swinging a soccer

729

00:32:55,829 --> 00:33:00,029

ball where the horizontal rotation of

730

00:32:58,140 --> 00:33:02,179

the ball creates differences in air

731

00:33:00,029 --> 00:33:04,619

resistance and attachment on each side

732

00:33:02,179 --> 00:33:06,720

baseball pitchers curves the same way to

733

00:33:04,619 --> 00:33:08,849

a soccer ball the rotation of the ball

734

00:33:06,720 --> 00:33:11,759

in one direction causes the difference

735

00:33:08,849 --> 00:33:13,678

in air attachment facing a fast bowler a

736

00:33:11,759 --> 00:33:16,019

batsman has around half a second to

737

00:33:13,679 --> 00:33:18,659

assess the trajectory of a ball choose a

738

00:33:16,019 --> 00:33:20,908

shot and play it and if you're as sick

739

00:33:18,659 --> 00:33:23,250

as me seeing a bowl or bowl repeated no

740

00:33:20,909 --> 00:33:25,080

balls if they move their foot 15

741

00:33:23,250 --> 00:33:27,240

centimeters backward to remove the

742
00:33:25,079 --> 00:33:28,829
chance of a no ball their apparent

743
00:33:27,240 --> 00:33:31,798
speeds of the batsman would drop by

744
00:33:28,829 --> 00:33:33,699
around one kilometer per hour that's it

745
00:33:31,798 --> 00:33:35,528
for this week in science

746
00:33:33,700 --> 00:33:41,009
more information on the sides of cricket

747
00:33:35,528 --> 00:33:44,470
go to the RO oz website RI aus org a you

748
00:33:41,009 --> 00:33:46,720
follow us on twitter @ ra oz and like us

749
00:33:44,470 --> 00:34:05,589
on Facebook I'm Ben Lawson we'll catch

750
00:33:46,720 --> 00:34:07,750
you next week Australian skeptics in

751
00:34:05,589 --> 00:34:11,739
Sydney invite you to our first dinner

752
00:34:07,750 --> 00:34:14,139
meeting for 2015 health care in

753
00:34:11,739 --> 00:34:16,509
Australia is full of fictitious diseases

754
00:34:14,139 --> 00:34:19,780
fake treatments and pseudo scientific

755
00:34:16,510 --> 00:34:21,730
terminology some health problems are

756
00:34:19,780 --> 00:34:24,129
also very embarrassing to mention in

757
00:34:21,730 --> 00:34:26,050
polite company and this has led to many

758
00:34:24,128 --> 00:34:29,828
people diagnosing themselves at home

759
00:34:26,050 --> 00:34:31,539
using dr. Google it's difficult to

760
00:34:29,829 --> 00:34:33,669
navigate between evidence-based medicine

761
00:34:31,539 --> 00:34:36,550
and popular discussion of the latest

762
00:34:33,668 --> 00:34:40,809
fads and this is where dr. Brad Mackay

763
00:34:36,550 --> 00:34:42,639
comes in dr. brad is a GP and TV host of

764
00:34:40,809 --> 00:34:45,039
embarrassing bodies down under a

765
00:34:42,639 --> 00:34:46,720
television show dedicated to decreasing

766
00:34:45,039 --> 00:34:48,940
the stigma of medical problems and

767
00:34:46,719 --> 00:34:51,908
increasing awareness of traditionally

768
00:34:48,940 --> 00:34:54,398
taboo topics he has an impressive

769
00:34:51,909 --> 00:34:56,470
background in medicine who is accepted

770

00:34:54,398 --> 00:34:59,139
into medicine at monash university when

771
00:34:56,469 --> 00:35:02,009
he was only 16 years old and started

772
00:34:59,139 --> 00:35:04,269
working as a doctor at the age of 21

773
00:35:02,010 --> 00:35:06,880
he's been working in general practice

774
00:35:04,269 --> 00:35:09,099
for the past 10 years and regularly

775
00:35:06,880 --> 00:35:11,440
tackles the tough and often embarrassing

776
00:35:09,099 --> 00:35:14,859
questions from his patients helping to

777
00:35:11,440 --> 00:35:17,530
find clarity in a woo filled world he's

778
00:35:14,858 --> 00:35:20,940
a dynamic speaker on medical myths false

779
00:35:17,530 --> 00:35:26,410
fads and of course embarrassing bodies

780
00:35:20,940 --> 00:35:30,880
to book your place go to ww skeptics com

781
00:35:26,409 --> 00:35:32,949
au / shop / events the dinner will be

782
00:35:30,880 --> 00:35:35,410
held at the ride Eastwood leagues club

783
00:35:32,949 --> 00:35:39,189
on saturday the twenty-eighth of march

784
00:35:35,409 --> 00:35:41,440

at 630pm please book your ticket by

785

00:35:39,190 --> 00:35:43,838

wednesday march 25

786

00:35:41,440 --> 00:35:47,108

tickets are fifty dollars and include an

787

00:35:43,838 --> 00:35:49,119

extensive buffet dinner the special door

788

00:35:47,108 --> 00:35:51,789

prize means one person will have their

789

00:35:49,119 --> 00:35:55,990

dinner fee reimbursed that's dinner and

790

00:35:51,789 --> 00:35:58,659

a show for free book now for your place

791

00:35:55,989 --> 00:36:11,889

on the examination couch we look forward

792

00:35:58,659 --> 00:36:12,940

to seeing you there so as we mentioned

793

00:36:11,889 --> 00:36:15,400

at the top of the show we're going to

794

00:36:12,940 --> 00:36:17,200

talk a little bit about this story I had

795

00:36:15,400 --> 00:36:20,108

to do with a woman who called herself

796

00:36:17,199 --> 00:36:23,199

and was labeled anyway the Wilmes

797

00:36:20,108 --> 00:36:27,088

warrior Joe yes this was jessica

798

00:36:23,199 --> 00:36:31,629

ainscough she was initially diagnosed

799

00:36:27,088 --> 00:36:35,019
with epithelial sarcoma in her I think

800

00:36:31,630 --> 00:36:38,200
left arm lifts on her and went through

801

00:36:35,019 --> 00:36:41,500
one round of treatment and after that

802

00:36:38,199 --> 00:36:43,419
her oncologist suggested well advised

803

00:36:41,500 --> 00:36:45,789
that the best way to be rid of this

804

00:36:43,420 --> 00:36:49,358
cancer was actually to have a fairly

805

00:36:45,789 --> 00:36:54,250
radical amputation performed she decided

806

00:36:49,358 --> 00:36:56,828
against that and took on girl on therapy

807

00:36:54,250 --> 00:37:00,039
which is basically very natural living

808

00:36:56,829 --> 00:37:03,910
juicing and coffee enemas coffee enemas

809

00:37:00,039 --> 00:37:10,179
indeed and a direct quote from Jessica

810

00:37:03,909 --> 00:37:12,879
made only for about four years ago when

811

00:37:10,179 --> 00:37:16,289
she was telling her story was I refused

812

00:37:12,880 --> 00:37:21,039
to follow the doctor's orders now she

813
00:37:16,289 --> 00:37:23,588
took the opinion that her body with the

814
00:37:21,039 --> 00:37:26,079
help of certain natural therapies would

815
00:37:23,588 --> 00:37:29,650
know what to do would know how to fight

816
00:37:26,079 --> 00:37:32,410
these cancers and clean herself out so

817
00:37:29,650 --> 00:37:34,510
she did this as she was big into healthy

818
00:37:32,409 --> 00:37:38,170
living as we were saying in this sort of

819
00:37:34,510 --> 00:37:42,190
thing sadly she convinced her mother as

820
00:37:38,170 --> 00:37:43,690
it happens to follow the same regime and

821
00:37:42,190 --> 00:37:46,358
her mother had breast cancer but and

822
00:37:43,690 --> 00:37:48,519
women died not long afterwards my mother

823
00:37:46,358 --> 00:37:52,239
gave up what we might call traditional

824
00:37:48,519 --> 00:37:54,670
if evidence-based therapies also it's

825
00:37:52,239 --> 00:37:55,209
interesting to note that Jessica was

826
00:37:54,670 --> 00:37:57,369
also

827

00:37:55,210 --> 00:38:00,909
went down the path of conspiracy theory

828
00:37:57,369 --> 00:38:03,789
yeah the the big farmer rejection of

829
00:38:00,909 --> 00:38:07,269
medicine sort of belief system I'm

830
00:38:03,789 --> 00:38:09,579
actually I find this story incredibly

831
00:38:07,269 --> 00:38:12,639
tragic but if I said yes she fell for

832
00:38:09,579 --> 00:38:14,920
the way of thinking being that natural

833
00:38:12,639 --> 00:38:19,210
therapies were going to kill her and

834
00:38:14,920 --> 00:38:21,400
unfortunately she became an advocate for

835
00:38:19,210 --> 00:38:24,338
this sort of thing through her blog she

836
00:38:21,400 --> 00:38:26,588
did motivational speaking and convinced

837
00:38:24,338 --> 00:38:29,170
a whole lot of other people to follow

838
00:38:26,588 --> 00:38:31,358
the same path and reject evidence-based

839
00:38:29,170 --> 00:38:33,460
medicine now let me read something that

840
00:38:31,358 --> 00:38:36,069
our friend Joanne benim ooh who of

841
00:38:33,460 --> 00:38:39,059

course was a skeptic zone reporter what

842

00:38:36,070 --> 00:38:43,000

she wrote about this tragic affair

843

00:38:39,059 --> 00:38:45,969

Joanne rights Jessica Ann scoff wellness

844

00:38:43,000 --> 00:38:48,849

Warrior died on the 26 of february I

845

00:38:45,969 --> 00:38:51,368

feel sad for her friends and family at

846

00:38:48,849 --> 00:38:53,680

losing their loved one but I feel angry

847

00:38:51,369 --> 00:38:56,200

that over the last few years we have

848

00:38:53,679 --> 00:38:58,239

watched a young woman slowly die what

849

00:38:56,199 --> 00:39:00,250

must have been a horrible death which

850

00:38:58,239 --> 00:39:02,439

could have been avoided if she had

851

00:39:00,250 --> 00:39:04,088

listened to her doctors rather than

852

00:39:02,440 --> 00:39:07,990

ignoring their recommendations and

853

00:39:04,088 --> 00:39:09,969

pursuing a range of unproven remedies in

854

00:39:07,989 --> 00:39:11,939

so doing she gained a legion of

855

00:39:09,969 --> 00:39:15,549

followers who believed that she was

856
00:39:11,940 --> 00:39:18,250
healed in quotation marks by alternative

857
00:39:15,550 --> 00:39:21,220
therapies who continued to a spouse her

858
00:39:18,250 --> 00:39:23,469
message and some of whom have followed

859
00:39:21,219 --> 00:39:26,889
her non medical advice themselves and

860
00:39:23,469 --> 00:39:29,079
eschewed effective treatment a terribly

861
00:39:26,889 --> 00:39:30,579
sad state of affairs and this is a very

862
00:39:29,079 --> 00:39:32,769
important message this is a very

863
00:39:30,579 --> 00:39:35,639
important message and the photographs of

864
00:39:32,769 --> 00:39:39,789
this woman Jessica are all completely

865
00:39:35,639 --> 00:39:42,219
angelic beaming healthy-looking

866
00:39:39,789 --> 00:39:45,009
everything's fine here am i drinking the

867
00:39:42,219 --> 00:39:47,679
natural jus son if your google wellness

868
00:39:45,010 --> 00:39:49,990
warrior do an image search you'll know

869
00:39:47,679 --> 00:39:51,940
what we mean it's it's quite something I

870
00:39:49,989 --> 00:39:54,579
mean I don't know Joe I think that she

871
00:39:51,940 --> 00:39:56,409
had some sort of professional help here

872
00:39:54,579 --> 00:39:59,889
gettin these publicity photographs out

873
00:39:56,409 --> 00:40:02,519
I'm quite possibly I mean she was making

874
00:39:59,889 --> 00:40:05,529
as I understand making a living out of

875
00:40:02,519 --> 00:40:08,710
coaching people regarding their health

876
00:40:05,530 --> 00:40:09,319
and alternative medicine that she was

877
00:40:08,710 --> 00:40:11,568
promoting

878
00:40:09,318 --> 00:40:15,048
um it's yeah I mean she does look very

879
00:40:11,568 --> 00:40:17,179
healthy but something really sad that

880
00:40:15,048 --> 00:40:19,759
I've seen over the past few years as

881
00:40:17,179 --> 00:40:21,498
have been watching her media photos be

882
00:40:19,759 --> 00:40:24,048
made public cuz she's been in newspapers

883
00:40:21,498 --> 00:40:26,868
she's yes you know received a fair

884

00:40:24,048 --> 00:40:29,059
amount of publicity for something fairly

885
00:40:26,869 --> 00:40:30,920
radical that she was claiming that she

886
00:40:29,059 --> 00:40:33,469
had been healed unfortunately yeah over

887
00:40:30,920 --> 00:40:36,469
the past few years she's progressively

888
00:40:33,469 --> 00:40:38,869
been hiding her arm yea which was

889
00:40:36,469 --> 00:40:41,479
affected by cancer well looking at the

890
00:40:38,869 --> 00:40:45,199
looking at a shot of her on her own web

891
00:40:41,478 --> 00:40:47,058
page actually Jessica ainscough dot-com

892
00:40:45,199 --> 00:40:49,489
in fact when you go there now

893
00:40:47,059 --> 00:40:52,609
automatically switches you too in loving

894
00:40:49,489 --> 00:40:54,920
memory and this use beaming on the couch

895
00:40:52,608 --> 00:40:57,199
with that dog and some cushions looking

896
00:40:54,920 --> 00:40:59,900
very happy but yes her left arm is

897
00:40:57,199 --> 00:41:03,349
nowhere to be seen so I I guess the

898
00:40:59,900 --> 00:41:05,568

message here is as Joanne bertemu points

899

00:41:03,349 --> 00:41:07,548

out these are unproven remedies you know

900

00:41:05,568 --> 00:41:10,548

and they're called alternative medicine

901

00:41:07,548 --> 00:41:12,708

for a good reason because as we know

902

00:41:10,548 --> 00:41:14,659

alternative medicine is your medicines

903

00:41:12,708 --> 00:41:17,419

that's been proven not to work or is

904

00:41:14,659 --> 00:41:20,449

unproven to work and her supporters gel

905

00:41:17,420 --> 00:41:23,420

I mean someone like this who's suffering

906

00:41:20,449 --> 00:41:25,219

what will their on a journey I mean we

907

00:41:23,420 --> 00:41:27,259

can understand that to an extent I guess

908

00:41:25,219 --> 00:41:30,219

but it's interesting that the her

909

00:41:27,259 --> 00:41:32,929

legions of fans what they go through

910

00:41:30,219 --> 00:41:35,690

yeah unfortunately I mean obviously

911

00:41:32,929 --> 00:41:38,239

there's a lot of grief being out port

912

00:41:35,690 --> 00:41:40,159

and this is a terrible situation her

913
00:41:38,239 --> 00:41:43,670
supporters who have been speaking on

914
00:41:40,159 --> 00:41:47,659
social media for the most part have not

915
00:41:43,670 --> 00:41:50,298
seen her awful passing as evidence or

916
00:41:47,659 --> 00:41:52,518
indicative at all that Gershon therapy

917
00:41:50,298 --> 00:41:55,369
did not treat her cancer did not cure

918
00:41:52,518 --> 00:41:58,098
her cancer which is incredibly sad I

919
00:41:55,369 --> 00:42:00,920
it's a blind spot isn't it is it's

920
00:41:58,099 --> 00:42:04,009
almost cult-like thinking I feel that

921
00:42:00,920 --> 00:42:05,749
there that utterly convinced that this

922
00:42:04,009 --> 00:42:07,670
is the right thing to do that this is

923
00:42:05,748 --> 00:42:11,899
the path that they should be taking that

924
00:42:07,670 --> 00:42:15,019
even even this tragic situation hasn't

925
00:42:11,900 --> 00:42:16,880
been enough to sway that it really

926
00:42:15,018 --> 00:42:18,409
troubles me actually the regime that

927
00:42:16,880 --> 00:42:20,900
people on gershwin therapy put

928
00:42:18,409 --> 00:42:22,469
themselves through that's five coffee

929
00:42:20,900 --> 00:42:24,960
enemas a day that's

930
00:42:22,469 --> 00:42:27,509
not a I mean even if you're beyond

931
00:42:24,960 --> 00:42:30,000
having traditional I don't know what to

932
00:42:27,510 --> 00:42:31,710
say traditional they're so modern um we

933
00:42:30,000 --> 00:42:34,108
have medicine yeah that's the one

934
00:42:31,710 --> 00:42:35,789
evidence-based medicine if you're at a

935
00:42:34,108 --> 00:42:37,319
point where there's a very low chance

936
00:42:35,789 --> 00:42:39,750
that that's going to help and you're in

937
00:42:37,320 --> 00:42:41,400
palliative care and you just want to

938
00:42:39,750 --> 00:42:43,260
feel like you're doing something maybe

939
00:42:41,400 --> 00:42:45,660
for coffee enemas to be the thing that

940
00:42:43,260 --> 00:42:47,520
you're doing it's just heartbreaking it

941

00:42:45,659 --> 00:42:48,989
so it is amazing I wonder who invented

942
00:42:47,519 --> 00:42:51,630
these in the first place they've got a

943
00:42:48,989 --> 00:42:54,569
lot to answer for that look s on maybe

944
00:42:51,630 --> 00:42:57,840
in this case look a very sad story the

945
00:42:54,570 --> 00:43:02,849
message is your best bet is to follow

946
00:42:57,840 --> 00:43:04,590
the recommendations by your specialists

947
00:43:02,849 --> 00:43:07,230
you know what they're not going to be a

948
00:43:04,590 --> 00:43:09,000
hundred percent perfect nobody is get a

949
00:43:07,230 --> 00:43:12,900
second opinion its your right to do that

950
00:43:09,000 --> 00:43:14,699
and so on but to abandon that and then

951
00:43:12,900 --> 00:43:17,369
leap to something which was no track

952
00:43:14,699 --> 00:43:18,929
record but again as I say it looks like

953
00:43:17,369 --> 00:43:20,099
so you just went down the rabbit hole I

954
00:43:18,929 --> 00:43:22,348
mean she's locked the whole conspiracy

955
00:43:20,099 --> 00:43:25,980

that the big pharma conspiracy in with

956

00:43:22,349 --> 00:43:28,519

it too so a sad story but I think

957

00:43:25,980 --> 00:43:28,519

there's a lesson there

958

00:43:37,358 --> 00:43:47,449

trust three Lucy a mini loafer of the

959

00:43:45,230 --> 00:43:49,219

Islamic law be so skeptical moons of you

960

00:43:47,449 --> 00:43:51,230

must not reach that rope recorded cars

961

00:43:49,219 --> 00:43:53,059

the divinity of Austria it algebra

962

00:43:51,230 --> 00:43:54,710

shampoo Susitna podcast Petrova hooded

963

00:43:53,059 --> 00:43:56,840

garden engine but customs White's

964

00:43:54,710 --> 00:43:59,090

escaped aside a cutter bombers just not

965

00:43:56,840 --> 00:44:03,829

inertia dayton st at the wave over

966

00:43:59,090 --> 00:44:05,269

skeptics society Rajguru everybody my

967

00:44:03,829 --> 00:44:07,549

name is carol and i'm the founder of

968

00:44:05,269 --> 00:44:09,289

skeptics society russia come visit us in

969

00:44:07,550 --> 00:44:11,300

moscow and our bi-weekly meetings and

970
00:44:09,289 --> 00:44:13,190
also listen to our weekly podcast which

971
00:44:11,300 --> 00:44:15,260
is called skeptic and the site where you

972
00:44:13,190 --> 00:44:17,800
can find all of that is skeptics society

973
00:44:15,260 --> 00:44:17,800
that are you

974
00:44:35,480 --> 00:44:39,900
thank you for listening to the skeptic

975
00:44:37,769 --> 00:44:41,400
zone now those people in Sydney Joe

976
00:44:39,900 --> 00:44:43,230
those people and suddenly they have a

977
00:44:41,400 --> 00:44:45,269
chance to come along and meet you meet

978
00:44:43,230 --> 00:44:47,519
me meet lots of people from the skeptic

979
00:44:45,269 --> 00:44:49,409
zone lots of good skeptic zip skeptics

980
00:44:47,519 --> 00:44:51,210
in the pub skeptics in the pub on

981
00:44:49,409 --> 00:44:52,889
thursday night thursday night and

982
00:44:51,210 --> 00:44:55,320
goodness what are they going to be

983
00:44:52,889 --> 00:44:56,549
talking about this week I've let me run

984
00:44:55,320 --> 00:45:02,580
over to the other side of the room I'm

985
00:44:56,550 --> 00:45:04,320
not running to the fridge I mean makes

986
00:45:02,579 --> 00:45:07,920
the microphone look at this Jo what I

987
00:45:04,320 --> 00:45:10,230
have in my hope that allow premium wine

988
00:45:07,920 --> 00:45:12,869
card oh it's in a beautiful black box

989
00:45:10,230 --> 00:45:15,449
with with silver and oh my goodness and

990
00:45:12,869 --> 00:45:19,619
the barbarities oh it actually has a

991
00:45:15,449 --> 00:45:21,960
little origami pop-up it does that's the

992
00:45:19,619 --> 00:45:24,210
sound of the premium wine my hand is

993
00:45:21,960 --> 00:45:26,730
slightly metallic i think it is rather i

994
00:45:24,210 --> 00:45:30,389
think it might be an aluminium yeah it's

995
00:45:26,730 --> 00:45:32,369
got a little in a wine glass logo sort

996
00:45:30,389 --> 00:45:35,489
of pressed out in the middle or to the

997
00:45:32,369 --> 00:45:37,589
side i should say there it is we're

998

00:45:35,489 --> 00:45:39,359
going to be testing that array

999
00:45:37,590 --> 00:45:41,309
informally i grant you but we're going

1000
00:45:39,360 --> 00:45:43,140
to be having great fun at skeptic in the

1001
00:45:41,309 --> 00:45:45,929
pub testing this card to see if it can

1002
00:45:43,139 --> 00:45:48,929
prove the taste of wine and water and

1003
00:45:45,929 --> 00:45:51,179
other drinks goodness may goodness me

1004
00:45:48,929 --> 00:45:53,730
I'm skeptical you skeptical birthing

1005
00:45:51,179 --> 00:45:55,859
those people in Sydney the you

1006
00:45:53,730 --> 00:45:58,440
everybody's welcome the crown hotel in

1007
00:45:55,860 --> 00:46:00,480
the city just Google and skeptics in the

1008
00:45:58,440 --> 00:46:03,150
pub in Sydney for more information this

1009
00:46:00,480 --> 00:46:05,280
thursday night well Joe thank you for

1010
00:46:03,150 --> 00:46:07,139
again thank you for coming down the

1011
00:46:05,280 --> 00:46:08,910
mountains and visiting me here in Sydney

1012
00:46:07,139 --> 00:46:12,569

it's been a pusher thank you very much

1013

00:46:08,909 --> 00:46:14,339

and for this week while we look out the

1014

00:46:12,570 --> 00:46:16,320

window again that storm still sort of

1015

00:46:14,340 --> 00:46:19,410

gathering out there this is Richard

1016

00:46:16,320 --> 00:46:22,250

Saunders and Joe alabaster signing off

1017

00:46:19,409 --> 00:46:22,250

from Sydney Australia

1018

00:46:24,590 --> 00:46:30,780

you've been listening to the skeptics

1019

00:46:27,030 --> 00:46:33,690

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1020

00:46:30,780 --> 00:46:37,140

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1021

00:46:33,690 --> 00:46:39,840

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1022

00:46:37,139 --> 00:46:41,750

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00:46:39,840 --> 00:46:44,940

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00:46:41,750 --> 00:46:48,570

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1025

00:46:44,940 --> 00:46:50,730

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00:46:48,570 --> 00:46:53,900

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paypal for as little as 99 cents a week

1028
00:46:53,900 --> 00:46:58,289
the skeptic zone is an independent

1029
00:46:56,670 --> 00:47:00,750
production the views and opinions

1030
00:46:58,289 --> 00:47:02,369
expressed on the skeptic zone and not

1031
00:47:00,750 --> 00:47:05,250
necessarily those of australian

1032
00:47:02,369 --> 00:47:19,279
skeptical or any other skeptical

1033
00:47:05,250 --> 00:47:22,280
organization lost civilizations

1034
00:47:19,280 --> 00:47:26,570
extraterrestrials myths and monsters

1035
00:47:22,280 --> 00:47:29,940
missing persons magic and witchcraft

1036
00:47:26,570 --> 00:47:31,980
unexplained phenomena in search of

1037
00:47:29,940 --> 00:47:35,070
cameras are traveling the world seeking

1038
00:47:31,980 --> 00:47:37,039
out these great mysteries this program

1039
00:47:35,070 --> 00:47:39,480
was the result of the work of scientists

1040
00:47:37,039 --> 00:47:42,590
researchers and a group of highly

1041
00:47:39,480 --> 00:47:42,590
skilled technicians

1042
00:47:53,150 --> 00:47:55,210
bye