

1
00:00:00,000 --> 00:00:02,799
[Music]

2
00:00:05,960 --> 00:00:11,879
welcome to the skeptic zone the podcast

3
00:00:09,119 --> 00:00:13,929
from Australia for science and reason

4
00:00:11,880 --> 00:00:16,920
[Music]

5
00:00:13,929 --> 00:00:23,000
[Applause]

6
00:00:16,920 --> 00:00:25,650
[Music]

7
00:00:23,000 --> 00:00:29,849
yes it's the skeptic zone podcast

8
00:00:25,649 --> 00:00:32,878
episode number 551 for the 12th of May

9
00:00:29,849 --> 00:00:36,179
2019 richardsaunders here with you from

10
00:00:32,878 --> 00:00:38,429
Sydney Australia winter is coming

11
00:00:36,179 --> 00:00:41,219
I think I heard that on some TV show

12
00:00:38,429 --> 00:00:44,100
somewhere the days are getting cooler

13
00:00:41,219 --> 00:00:47,039
here in Sydney and that's the skeptic

14
00:00:44,100 --> 00:00:48,600
zone weather forecast for today if you

15
00:00:47,039 --> 00:00:51,149
want the weather forecast in your local

16
00:00:48,600 --> 00:00:53,189
area there's always the Internet

17
00:00:51,149 --> 00:00:55,620
coming up on this week's show I catch up

18
00:00:53,189 --> 00:00:57,929
with Professor Paul Willis the

19
00:00:55,619 --> 00:01:00,030
well-known paleontologist Paul's gonna

20
00:00:57,929 --> 00:01:03,019
talk about his new venture his new

21
00:01:00,030 --> 00:01:06,149
project his new undertaking paleo

22
00:01:03,020 --> 00:01:10,020
pictures this is where he's going to be

23
00:01:06,149 --> 00:01:13,799
producing documentaries regarding and

24
00:01:10,019 --> 00:01:17,759
revolving concerning dinosaurs including

25
00:01:13,799 --> 00:01:20,879
the very interesting the mystery in the

26
00:01:17,759 --> 00:01:23,340
dinosaurs belly and if you ever want to

27
00:01:20,879 --> 00:01:26,188
be involved in helping to produce a

28
00:01:23,340 --> 00:01:29,219
scientific documentary here's your

29

00:01:26,188 --> 00:01:31,048
chance find out more with Professor Paul

30
00:01:29,219 --> 00:01:34,259
Willis coming up at the top of the show

31
00:01:31,049 --> 00:01:36,570
after that I run after dr. Cal Cruz on

32
00:01:34,259 --> 00:01:38,670
whiskey and I mean I run after dr.

33
00:01:36,569 --> 00:01:41,969
callicles and Hiskey we do an interview

34
00:01:38,670 --> 00:01:44,939
in the street in the actual street and

35
00:01:41,969 --> 00:01:47,789
on a bus karl is a very busy man and I

36
00:01:44,938 --> 00:01:50,250
had the pleasure of being with dr. Karl

37
00:01:47,790 --> 00:01:52,939
a couple of days ago when he did some

38
00:01:50,250 --> 00:01:56,099
radio segments around Australia and

39
00:01:52,938 --> 00:01:58,169
afterwards in the brief time we had

40
00:01:56,099 --> 00:02:01,519
available I interview call about the

41
00:01:58,170 --> 00:02:03,899
flat earth and the impact of

42
00:02:01,519 --> 00:02:06,929
anti-vaxxers and speaking of

43
00:02:03,899 --> 00:02:09,769

anti-vaxxers or VAX is in this case my

44

00:02:06,930 --> 00:02:12,629
report from the Australian skeptics flu

45

00:02:09,769 --> 00:02:15,659
vaccination clinic in Sydney held just

46

00:02:12,629 --> 00:02:18,959
last week in fact on the 4th of May Star

47

00:02:15,659 --> 00:02:21,090
Wars day interviews and reactions but

48

00:02:18,959 --> 00:02:22,519
not bad reactions I didn't I had a flu

49

00:02:21,090 --> 00:02:24,479
shot

50

00:02:22,519 --> 00:02:27,900
mom's doing pretty well

51

00:02:24,479 --> 00:02:30,929
no bad reactions now this includes the

52

00:02:27,900 --> 00:02:33,650
first episode of a new web series called

53

00:02:30,930 --> 00:02:37,950
to underscore me underscore Oz Ozzie

54

00:02:33,650 --> 00:02:42,150
with Trish Han then I chat to Tom and

55

00:02:37,949 --> 00:02:44,339
jarana from the pint of science in

56

00:02:42,150 --> 00:02:46,920
Australia they are they are the national

57

00:02:44,340 --> 00:02:49,500
directors pint of science Australia runs

58
00:02:46,919 --> 00:02:51,268
events to bring researchers across all

59
00:02:49,500 --> 00:02:53,908
fields of science technology engineering

60
00:02:51,269 --> 00:02:56,099
mathematics and medicine to share their

61
00:02:53,908 --> 00:02:58,979
recent discoveries with the local

62
00:02:56,098 --> 00:03:02,188
community this is done in the pub coming

63
00:02:58,979 --> 00:03:05,098
up very soon later this month across

64
00:03:02,188 --> 00:03:07,919
Australia you can attend a pint of

65
00:03:05,098 --> 00:03:10,768
science event find out more coming up

66
00:03:07,919 --> 00:03:13,768
later on in the show then the run of the

67
00:03:10,769 --> 00:03:16,170
show life is wild life is very wild with

68
00:03:13,769 --> 00:03:18,539
our reporter Michelle Franklin and she's

69
00:03:16,169 --> 00:03:22,619
going to be discussing the importance of

70
00:03:18,539 --> 00:03:26,158
biosecurity and why we have quarantine

71
00:03:22,620 --> 00:03:29,759
especially for pets and especially for

72
00:03:26,158 --> 00:03:32,098
pets of certain well-known actors who

73
00:03:29,759 --> 00:03:34,019
sort of fly into the country on their

74
00:03:32,098 --> 00:03:36,628
private jets and bring their private

75
00:03:34,019 --> 00:03:38,219
dogs and wonder where those private cats

76
00:03:36,628 --> 00:03:39,959
are they're around here somewhere

77
00:03:38,219 --> 00:03:41,489
I think the skeptic zone cats are

78
00:03:39,959 --> 00:03:44,280
downstairs waiting for their breakfast

79
00:03:41,489 --> 00:03:46,378
so while I run downstairs and give the

80
00:03:44,280 --> 00:03:49,669
cats their breakfast I hope you enjoy

81
00:03:46,378 --> 00:03:49,668
the skeptic zone

82
00:03:55,330 --> 00:04:14,880
a piece of his mind

83
00:04:15,509 --> 00:04:19,639
with Professor Paul Willis

84
00:04:21,000 --> 00:04:30,509
[Music]

85
00:04:26,459 --> 00:04:34,060
and joining me on the line it is indeed

86

00:04:30,509 --> 00:04:37,149
associate and junk professor dr. Paul

87
00:04:34,060 --> 00:04:39,490
Willis hello Paul how are you Richard

88
00:04:37,149 --> 00:04:41,289
I'm very well and as we were just

89
00:04:39,490 --> 00:04:44,889
discussing before I'm not quite as

90
00:04:41,290 --> 00:04:47,160
hirsute as you are these days no this is

91
00:04:44,889 --> 00:04:49,719
probably the unfortunate side effect of

92
00:04:47,160 --> 00:04:52,990
losing the last influence in your life

93
00:04:49,720 --> 00:04:55,630
to say no I am now probably my own worst

94
00:04:52,990 --> 00:05:00,790
enemy when it comes to my fashion sense

95
00:04:55,629 --> 00:05:01,060
growing I might as well enjoy it while I

96
00:05:00,790 --> 00:05:03,040
can

97
00:05:01,060 --> 00:05:06,569
well you're looking the part of an

98
00:05:03,040 --> 00:05:11,170
eccentric professor I'll put it that way

99
00:05:06,569 --> 00:05:13,000
and apart from anything else how's your

100
00:05:11,170 --> 00:05:14,890

battles going with things like you know

101

00:05:13,000 --> 00:05:15,730

the old favorites like the creationists

102

00:05:14,889 --> 00:05:18,039

and all that sort of stuff

103

00:05:15,730 --> 00:05:20,740

yeah the creationists have been a bit

104

00:05:18,040 --> 00:05:23,140

quiet of like hmm you know I haven't

105

00:05:20,740 --> 00:05:26,790

seen much going on there what I'm more

106

00:05:23,139 --> 00:05:30,370

active in is through the National

107

00:05:26,790 --> 00:05:33,730

Secular Lobby campaigning against things

108

00:05:30,370 --> 00:05:37,990

like chaplains in schools and against

109

00:05:33,730 --> 00:05:41,800

this push from the various religious and

110

00:05:37,990 --> 00:05:43,389

lobbies to have religious freedoms which

111

00:05:41,800 --> 00:05:46,120

actually when you sit down and look at

112

00:05:43,389 --> 00:05:47,560

it it's code words for permission to

113

00:05:46,120 --> 00:05:50,980

break the law

114

00:05:47,560 --> 00:05:55,300

yeah and in a secular society that's

115
00:05:50,980 --> 00:05:57,370
just not on so I'm doing much more

116
00:05:55,300 --> 00:06:01,030
active in that area these days than in

117
00:05:57,370 --> 00:06:02,439
creationism but look if a creationist

118
00:06:01,029 --> 00:06:04,539
pops his head up I'd be only too happy

119
00:06:02,439 --> 00:06:06,219
to give it a kick I'm sure you would be

120
00:06:04,540 --> 00:06:07,890
but it does sort of tie in a little bit

121
00:06:06,220 --> 00:06:12,150
about why I wanted to talk to you today

122
00:06:07,889 --> 00:06:14,979
because you have a new venture a new

123
00:06:12,149 --> 00:06:17,139
undertaking going on which really sort

124
00:06:14,980 --> 00:06:19,930
of ties in with creationism a bit on at

125
00:06:17,139 --> 00:06:21,990
least on the fringe please please tell

126
00:06:19,930 --> 00:06:24,910
us tell us all about it

127
00:06:21,990 --> 00:06:26,850
well really it starts from the

128
00:06:24,910 --> 00:06:31,419
proposition of you know got back into

129
00:06:26,850 --> 00:06:34,870
paleontology research-wise most of my

130
00:06:31,418 --> 00:06:37,240
time at the AVC and when i was director

131
00:06:34,870 --> 00:06:38,800
at the Royal Institution I simply didn't

132
00:06:37,240 --> 00:06:42,639
have the time to devote

133
00:06:38,800 --> 00:06:45,668
to research paleontology which was my

134
00:06:42,639 --> 00:06:48,728
first career but then when Flinders

135
00:06:45,668 --> 00:06:51,098
University made me adjunct in

136
00:06:48,728 --> 00:06:54,668
paleontology there's an associate

137
00:06:51,098 --> 00:06:56,949
professor I thought well you know that's

138
00:06:54,668 --> 00:06:59,709
good I can go and get some money in and

139
00:06:56,949 --> 00:07:01,750
do some research and getting money for

140
00:06:59,709 --> 00:07:04,628
paleontological research is really

141
00:07:01,750 --> 00:07:06,908
difficult yeah I mean science funding in

142
00:07:04,629 --> 00:07:10,449
general from research funding in

143

00:07:06,908 --> 00:07:13,240
Australia is pretty bad but then when it

144
00:07:10,449 --> 00:07:17,050
comes to the common pools of money for

145
00:07:13,240 --> 00:07:19,240
science research the paleontology is

146
00:07:17,050 --> 00:07:21,370
kind of the Cinderella of the sciences

147
00:07:19,240 --> 00:07:24,550
when it comes to funding you know it's

148
00:07:21,370 --> 00:07:28,030
the good-looking little sister who's

149
00:07:24,550 --> 00:07:29,949
lost away in the scullery and doesn't

150
00:07:28,029 --> 00:07:35,068
tend to get much in the way of funding

151
00:07:29,949 --> 00:07:40,780
compared to the more stellar and more

152
00:07:35,069 --> 00:07:43,120
sexy areas of science that you know in

153
00:07:40,779 --> 00:07:46,348
this day and age that can be turned into

154
00:07:43,120 --> 00:07:50,769
a product in in three years

155
00:07:46,348 --> 00:07:52,839
so I was casting around for ideas of how

156
00:07:50,769 --> 00:07:56,889
I could generate money to do some

157
00:07:52,839 --> 00:08:00,129

research and a friend pointed out to me

158

00:07:56,889 --> 00:08:02,199

that well I've got all these skills in

159

00:08:00,129 --> 00:08:05,639

being able to make documentaries yeah

160

00:08:02,199 --> 00:08:09,968

why don't I make documentaries about

161

00:08:05,639 --> 00:08:12,848

about paleontology and use that money

162

00:08:09,968 --> 00:08:15,310

and the profits from that to fund my

163

00:08:12,848 --> 00:08:17,528

paleontological research hmm and I

164

00:08:15,310 --> 00:08:20,519

thought actually I could go one better

165

00:08:17,528 --> 00:08:23,259

than that I could actually make

166

00:08:20,519 --> 00:08:26,609

documentaries about the research I'm

167

00:08:23,259 --> 00:08:31,240

doing as it's actually happening hmm and

168

00:08:26,610 --> 00:08:32,918

the advantage in that is that really

169

00:08:31,240 --> 00:08:36,639

you're not supposed to talk about your

170

00:08:32,918 --> 00:08:40,629

research in public until the day that

171

00:08:36,639 --> 00:08:43,899

the paper is published so that you don't

172
00:08:40,629 --> 00:08:45,970
what they say jeopardize peer review you

173
00:08:43,899 --> 00:08:48,789
know if you've gone out and talked about

174
00:08:45,970 --> 00:08:50,889
your research in any great detail ahead

175
00:08:48,789 --> 00:08:52,789
of publication there's good chance that

176
00:08:50,889 --> 00:08:58,490
that publication won't actually

177
00:08:52,789 --> 00:09:01,429
and bull runs so what about is while I'm

178
00:08:58,490 --> 00:09:04,129
doing the research I'm also making a

179
00:09:01,429 --> 00:09:07,669
documentary so that on the day of

180
00:09:04,129 --> 00:09:12,080
publication of the paper you've got a

181
00:09:07,669 --> 00:09:15,259
documentary they're ready to go and so

182
00:09:12,080 --> 00:09:19,759
you can release that on the day that the

183
00:09:15,259 --> 00:09:21,710
the the research is released just to

184
00:09:19,759 --> 00:09:25,009
give you a quick example yeah you might

185
00:09:21,710 --> 00:09:30,230
have seen last week in nature there was

186
00:09:25,009 --> 00:09:31,610
a a second specimen of a den so vien was

187
00:09:30,230 --> 00:09:35,180
found who I missed that one

188
00:09:31,610 --> 00:09:38,659
go on you know this is huge news it made

189
00:09:35,179 --> 00:09:40,370
global headlines because it's for really

190
00:09:38,659 --> 00:09:42,799
important stories you're not going to

191
00:09:40,370 --> 00:09:44,360
see that piece of research included in a

192
00:09:42,799 --> 00:09:45,519
documentary for at least six months

193
00:09:44,360 --> 00:09:48,440
right

194
00:09:45,519 --> 00:09:50,990
imagine if the researchers who were

195
00:09:48,440 --> 00:09:52,970
doing the actual research had been

196
00:09:50,990 --> 00:09:55,250
putting together a documentary so that

197
00:09:52,970 --> 00:09:57,680
last week when they announced the

198
00:09:55,250 --> 00:10:00,740
research they could release the

199
00:09:57,679 --> 00:10:04,279
documentary so that people could you

200

00:10:00,740 --> 00:10:05,990
know who weren't necessarily geniuses

201
00:10:04,279 --> 00:10:08,899
when it came to reading the literature

202
00:10:05,990 --> 00:10:10,490
they could just sit at home and watch a

203
00:10:08,899 --> 00:10:13,250
documentary and find out what it was all

204
00:10:10,490 --> 00:10:14,720
about which is a lot more I don't want

205
00:10:13,250 --> 00:10:16,490
to use the word palatable that's the

206
00:10:14,720 --> 00:10:19,240
wrong word it's a lot more easy to

207
00:10:16,490 --> 00:10:22,220
digest to the vast weather population

208
00:10:19,240 --> 00:10:25,100
exactly it's it's about pitching the

209
00:10:22,220 --> 00:10:26,930
story and not running it down you know

210
00:10:25,100 --> 00:10:30,680
you want to pitch it to a general

211
00:10:26,929 --> 00:10:32,149
audience so that so that everyone can

212
00:10:30,679 --> 00:10:34,759
understand what it is that you've done

213
00:10:32,149 --> 00:10:36,289
well it's exciting too because I you

214
00:10:34,759 --> 00:10:38,149

know I love these sort of documentaries

215

00:10:36,289 --> 00:10:40,819

especially when you see paleontologists

216

00:10:38,149 --> 00:10:43,340

out in the field digging away under the

217

00:10:40,820 --> 00:10:45,800

rock in the ice or whatever it is and lo

218

00:10:43,340 --> 00:10:47,930

and behold after much effort something

219

00:10:45,799 --> 00:10:49,669

appears it's like it's like a treasure

220

00:10:47,929 --> 00:10:52,969

hunting in a sort of way and that could

221

00:10:49,669 --> 00:10:56,059

be very entertaining and engaging well

222

00:10:52,970 --> 00:11:00,800

yeah and and this is again and another

223

00:10:56,059 --> 00:11:02,419

unique feature of paleo pictures because

224

00:11:00,799 --> 00:11:04,729

of the combination of skills that I've

225

00:11:02,419 --> 00:11:06,589

got not only as a paleontologist but

226

00:11:04,730 --> 00:11:10,940

also as a documentary maker

227

00:11:06,590 --> 00:11:15,680

I can actually film and do the whole

228

00:11:10,940 --> 00:11:18,410

documentary side of things by myself now

229
00:11:15,679 --> 00:11:21,528
normally when you send a documentary

230
00:11:18,409 --> 00:11:23,778
crew out to cover an excavation that's

231
00:11:21,528 --> 00:11:25,909
one of the most expensive parts of the

232
00:11:23,778 --> 00:11:28,399
whole production because you got to send

233
00:11:25,909 --> 00:11:32,480
at least two and quite often three or

234
00:11:28,399 --> 00:11:35,019
four people out to remote locations in

235
00:11:32,480 --> 00:11:37,519
order to cover that particular dig

236
00:11:35,019 --> 00:11:38,000
whereas I just need to go out there by

237
00:11:37,519 --> 00:11:42,169
myself

238
00:11:38,000 --> 00:11:45,470
yeah so the costs come down I can spend

239
00:11:42,169 --> 00:11:47,389
longer on site yeah so I can really get

240
00:11:45,470 --> 00:11:50,060
into what have you found what's

241
00:11:47,389 --> 00:11:52,278
happening okay so you know this is the

242
00:11:50,059 --> 00:11:55,338
bone that we saw on day one and it's now

243
00:11:52,278 --> 00:11:57,528
day ten look at what's emerge from the

244
00:11:55,339 --> 00:11:59,210
ground you know and we can go into the

245
00:11:57,528 --> 00:12:03,110
laboratories and see the preparation

246
00:11:59,210 --> 00:12:05,450
which takes ages in order to to release

247
00:12:03,110 --> 00:12:08,629
a fossil from the rocks and prepare it

248
00:12:05,450 --> 00:12:11,360
for display and study we can go into the

249
00:12:08,629 --> 00:12:14,539
study itself go into the offices of the

250
00:12:11,360 --> 00:12:15,950
of the paleontologists and follow what

251
00:12:14,539 --> 00:12:19,250
they're doing looking over their

252
00:12:15,950 --> 00:12:21,170
shoulder and that's I don't think that

253
00:12:19,250 --> 00:12:24,919
there's anybody else out there who's

254
00:12:21,169 --> 00:12:26,929
who's using that combination of talents

255
00:12:24,919 --> 00:12:29,059
in that way I think it's a terrific idea

256
00:12:26,929 --> 00:12:32,389
and I and it's it's an exciting idea

257

00:12:29,059 --> 00:12:34,489
it's new and you're absolutely right

258
00:12:32,389 --> 00:12:37,850
these days of course you can be a

259
00:12:34,490 --> 00:12:39,710
one-man one-man band so to speak you can

260
00:12:37,850 --> 00:12:43,730
be your own cameraman sound recorders

261
00:12:39,710 --> 00:12:46,160
producer and talent indeed and while I

262
00:12:43,730 --> 00:12:47,230
was the ABC I was being trained to do

263
00:12:46,159 --> 00:12:50,360
exactly that

264
00:12:47,230 --> 00:12:54,350
and a number of stories that I've

265
00:12:50,360 --> 00:12:56,930
produced for catalyst towards the end of

266
00:12:54,350 --> 00:12:59,269
my time there I was the sole person

267
00:12:56,929 --> 00:13:00,588
actually out there shooting and that was

268
00:12:59,269 --> 00:13:03,230
quite often because it was remote

269
00:13:00,589 --> 00:13:04,970
locations like Antarctica you know the

270
00:13:03,230 --> 00:13:07,850
cost of sending a whole crew down to

271
00:13:04,970 --> 00:13:09,680

Antarctica is astronomical but just in

272

00:13:07,850 --> 00:13:12,830

one person down there is a reporter

273

00:13:09,679 --> 00:13:16,009

camera sound you know that's that's a

274

00:13:12,830 --> 00:13:19,250

huge budget saving yes and yes and yes

275

00:13:16,009 --> 00:13:21,409

to the whole idea of you know because of

276

00:13:19,250 --> 00:13:25,068

modern equipment

277

00:13:21,409 --> 00:13:27,798

it's so much easier for one person to go

278

00:13:25,068 --> 00:13:30,318

out and record documentary material and

279

00:13:27,798 --> 00:13:32,980

broadcast quality documentary material

280

00:13:30,318 --> 00:13:37,159

at that I'm shooting on an iPhone 10 and

281

00:13:32,980 --> 00:13:39,739

that is more than good enough to put

282

00:13:37,159 --> 00:13:44,889

onto the market as documentary footage

283

00:13:39,739 --> 00:13:47,389

yeah fat but I am actually in a very

284

00:13:44,889 --> 00:13:49,579

lucky position here with our first

285

00:13:47,389 --> 00:13:54,619

documentary which were already halfway

286
00:13:49,578 --> 00:13:57,888
through putting together in that it

287
00:13:54,619 --> 00:14:04,749
concerns some specimens that I picked up

288
00:13:57,889 --> 00:14:07,249
in the field in 1991 and back then I was

289
00:14:04,749 --> 00:14:10,909
that was long before I got involved with

290
00:14:07,249 --> 00:14:12,949
the ABC back then I was ahead of the

291
00:14:10,909 --> 00:14:15,798
curve as a paleontologist and I was

292
00:14:12,948 --> 00:14:18,438
taking a video camera into the field and

293
00:14:15,798 --> 00:14:21,078
instead of taking detailed field notes I

294
00:14:18,438 --> 00:14:25,578
was videotaping everything so I've

295
00:14:21,078 --> 00:14:28,008
actually got videotape of me in the

296
00:14:25,578 --> 00:14:31,328
field picking up the specimen that the

297
00:14:28,009 --> 00:14:35,869
research that I'm doing on now is is

298
00:14:31,328 --> 00:14:40,219
I've got it all on tape you know so

299
00:14:35,869 --> 00:14:43,699
there's this long continuity of footage

300
00:14:40,220 --> 00:14:45,970
for this particular documentary because

301
00:14:43,698 --> 00:14:48,828
way back then when I was a younger lad

302
00:14:45,970 --> 00:14:52,069
I'd bothered to take a video camera into

303
00:14:48,828 --> 00:14:55,399
the field folks it sounds like a very

304
00:14:52,068 --> 00:14:57,469
exciting proposition from I'll just

305
00:14:55,399 --> 00:14:58,999
shorten it to Professor Paul Wilson it's

306
00:14:57,470 --> 00:15:01,999
much less of a mouthful than all the

307
00:14:58,999 --> 00:15:08,019
other titles you have now how can people

308
00:15:01,999 --> 00:15:12,439
become involved look we've got a website

309
00:15:08,019 --> 00:15:15,499
Palio pictures calm we've got Facebook

310
00:15:12,438 --> 00:15:19,368
Twitter and Instagram feeds and a

311
00:15:15,499 --> 00:15:21,980
YouTube site where you can have a look

312
00:15:19,369 --> 00:15:26,928
at a trailer for the documentary that

313
00:15:21,980 --> 00:15:29,269
we're currently working on and if you go

314

00:15:26,928 --> 00:15:32,149
to the site and you want to contribute

315
00:15:29,269 --> 00:15:34,039
we've got a GoFundMe campaign up and

316
00:15:32,149 --> 00:15:37,370
running at the moment to just

317
00:15:34,039 --> 00:15:40,759
in initial working capital and there is

318
00:15:37,370 --> 00:15:42,560
also an opportunity for investors if if

319
00:15:40,759 --> 00:15:45,250
you think that it's such a good cause

320
00:15:42,559 --> 00:15:48,529
that you want to put some money up and

321
00:15:45,250 --> 00:15:51,919
buy some shares in paleo pictures it's

322
00:15:48,529 --> 00:15:54,799
all there on the website and and if I

323
00:15:51,919 --> 00:15:58,789
can just give a shout out yeah because

324
00:15:54,799 --> 00:16:01,729
it's members of the skeptic community

325
00:15:58,789 --> 00:16:04,610
that have come forward so far and bought

326
00:16:01,730 --> 00:16:06,920
shares in paleo pictures and a huge

327
00:16:04,610 --> 00:16:07,340
thanks to those people you know who you

328
00:16:06,919 --> 00:16:10,129

are

329

00:16:07,340 --> 00:16:13,580

you've got us up and running now folks

330

00:16:10,129 --> 00:16:20,000

the URL of course is paleo pictures calm

331

00:16:13,580 --> 00:16:22,400

that's P a l a e Oh pictures calm stories

332

00:16:20,000 --> 00:16:24,860

from paleontology all the information is

333

00:16:22,399 --> 00:16:26,629

there there are links and you can see a

334

00:16:24,860 --> 00:16:28,820

teaser trailer there

335

00:16:26,629 --> 00:16:31,909

well Paul all the best with this

336

00:16:28,820 --> 00:16:33,590

undertaking we're going to catch up down

337

00:16:31,909 --> 00:16:35,480

the track to see how it's all going but

338

00:16:33,590 --> 00:16:37,220

folks if you want to be involved in

339

00:16:35,480 --> 00:16:39,230

science if you want to help a scientist

340

00:16:37,220 --> 00:16:41,570

to communicate science and if you're

341

00:16:39,230 --> 00:16:44,000

interested in paleontology that's the

342

00:16:41,570 --> 00:16:46,730

link for you well Paul Willis all the

343
00:16:44,000 --> 00:16:49,190
way over there in beautiful Adelaide in

344
00:16:46,730 --> 00:16:51,500
South Australia next time you go to the

345
00:16:49,190 --> 00:16:53,660
Antarctic I keep begging I keep begging

346
00:16:51,500 --> 00:16:56,629
that you take me as your Batman or your

347
00:16:53,659 --> 00:16:59,480
whatever I don't care let me know

348
00:16:56,629 --> 00:17:01,519
but for now thanks very much always a

349
00:16:59,480 --> 00:17:03,830
pleasure Richard and looking forward to

350
00:17:01,519 --> 00:17:06,650
catching up when we do go to publish

351
00:17:03,830 --> 00:17:10,170
this this research at the moment I think

352
00:17:06,650 --> 00:17:13,309
you have been most interested

353
00:17:10,170 --> 00:17:13,308
[Music]

354
00:17:16,049 --> 00:17:22,259
100 million years ago a dinosaur died

355
00:17:19,329 --> 00:17:25,329
and it's carcass was washed out to sea

356
00:17:22,259 --> 00:17:28,089
deep in its belly it carried a mystery

357
00:17:25,329 --> 00:17:32,129
that would take 21st century technology

358
00:17:28,089 --> 00:17:34,959
to solve the mystery was picked up in

359
00:17:32,130 --> 00:17:37,390
1991 when paleontologist and science

360
00:17:34,960 --> 00:17:40,150
reporter Paul Willis that's me

361
00:17:37,390 --> 00:17:43,870
found inexplicable holes in the matter

362
00:17:40,150 --> 00:17:47,009
barosaurus skeleton 25 years later and

363
00:17:43,869 --> 00:17:50,679
finally I came up with an identification

364
00:17:47,009 --> 00:17:54,069
okay I know what you're thinking how

365
00:17:50,680 --> 00:17:56,049
could a paleontologist have sitting

366
00:17:54,069 --> 00:17:58,750
under his nose for the best part of

367
00:17:56,049 --> 00:18:01,269
quarter of a century and not know what

368
00:17:58,750 --> 00:18:03,670
they were that is a good question

369
00:18:01,269 --> 00:18:05,650
we can't reveal what we found at the

370
00:18:03,670 --> 00:18:08,800
moment because the research is still

371

00:18:05,650 --> 00:18:11,320
ongoing but these fossils are a first

372
00:18:08,799 --> 00:18:16,539
for Australia and are unique in the

373
00:18:11,319 --> 00:18:18,549
world this is really exciting there are

374
00:18:16,539 --> 00:18:22,509
many more surprises revealed by this

375
00:18:18,549 --> 00:18:24,970
ongoing study the problem is these

376
00:18:22,509 --> 00:18:27,470
fossils are unlike any other fossils

377
00:18:24,970 --> 00:18:30,500
seen before

378
00:18:27,470 --> 00:18:33,159
in the mystery in the dinosaurs belly we

379
00:18:30,500 --> 00:18:36,019
present a new deal in documentary making

380
00:18:33,159 --> 00:18:38,659
the story is told by the scientists

381
00:18:36,019 --> 00:18:41,450
doing the research as the research is

382
00:18:38,659 --> 00:18:43,490
actually happening can I make my case

383
00:18:41,450 --> 00:18:46,580
and convince sceptical colleagues that I

384
00:18:43,490 --> 00:18:49,370
have the most extraordinary fossils ever

385
00:18:46,579 --> 00:18:52,058

recovered from Australia it's a real

386

00:18:49,369 --> 00:18:54,859

mystery great to find out what it is

387

00:18:52,058 --> 00:18:56,819

find out in the mystery in the

388

00:18:54,859 --> 00:19:11,019

dinosaur's belly

389

00:18:56,819 --> 00:19:11,019

[Music]

390

00:19:12,839 --> 00:19:19,168

I've been using these e-bikes lately

391

00:19:16,819 --> 00:19:20,819

they're like they're good they give you

392

00:19:19,169 --> 00:19:24,870

an assist they don't do the pedaling for

393

00:19:20,819 --> 00:19:27,599

you they assist you not significantly

394

00:19:24,869 --> 00:19:30,979

but enough to help ya so you go with it

395

00:19:27,599 --> 00:19:30,980

faster and hills are been easier

396

00:19:34,490 --> 00:19:37,640

so we can do a quick interview on the

397

00:19:36,529 --> 00:19:40,970

run that might be fun

398

00:19:37,640 --> 00:19:42,710

we're approaching the bus interchange

399

00:19:40,970 --> 00:19:45,079

here it's sitting on with dr. Karl hello

400
00:19:42,710 --> 00:19:46,960
dr. Karl how are you today dr. Richard

401
00:19:45,079 --> 00:19:48,889
very very well I just had an enjoyable

402
00:19:46,960 --> 00:19:50,870
morning with you sitting in on your

403
00:19:48,890 --> 00:19:53,600
radio sessions a couple of questions I

404
00:19:50,869 --> 00:19:56,899
wanted to ask you in your opinion there

405
00:19:53,599 --> 00:19:58,099
are two things that seem to be making an

406
00:19:56,900 --> 00:20:00,740
impact on the world

407
00:19:58,099 --> 00:20:03,139
much to our chagrin the first one is a

408
00:20:00,740 --> 00:20:06,589
bit frivolous you might think but it's

409
00:20:03,140 --> 00:20:09,470
there the growing popularity of the Flat

410
00:20:06,589 --> 00:20:11,839
Earth conspiracy and it is more and more

411
00:20:09,470 --> 00:20:13,610
people younger people I guess are

412
00:20:11,839 --> 00:20:15,379
starting to think the earth is really

413
00:20:13,609 --> 00:20:18,349
flat have you got any idea why this

414
00:20:15,380 --> 00:20:19,850
might be happening speaking from a

415
00:20:18,349 --> 00:20:21,529
scientific point of view and knowing the

416
00:20:19,849 --> 00:20:24,769
historical background to this story

417
00:20:21,529 --> 00:20:27,980
the answer is no the origin of this myth

418
00:20:24,769 --> 00:20:33,500
goes back to the mid 1800s when writers

419
00:20:27,980 --> 00:20:35,150
in both the USA and in France to point

420
00:20:33,500 --> 00:20:38,000
out how wonderful we humans were

421
00:20:35,150 --> 00:20:40,580
Dandridge 1500 m in 1800 and how we had

422
00:20:38,000 --> 00:20:42,289
conquered the world then say we are so

423
00:20:40,579 --> 00:20:44,539
wonderful and in fact we've gone so far

424
00:20:42,289 --> 00:20:46,460
ahead of our predecessors and they threw

425
00:20:44,539 --> 00:20:48,349
in the magic phrase who thought that the

426
00:20:46,460 --> 00:20:50,900
earth was flat yeah in fact this is

427
00:20:48,349 --> 00:20:52,939
completely wrong Aristophanes knew the

428

00:20:50,900 --> 00:20:54,980
earth was round 2,000 years ago and he

429
00:20:52,940 --> 00:20:57,200
actually measured the diameter of the

430
00:20:54,980 --> 00:20:58,460
earth thank you to within 10% so it was

431
00:20:57,200 --> 00:21:00,860
well known above anybody who was a

432
00:20:58,460 --> 00:21:03,920
sailor as well they knew that the earth

433
00:21:00,859 --> 00:21:07,129
was curved but this myth was invented in

434
00:21:03,920 --> 00:21:09,259
the 1850s to show how we humans have

435
00:21:07,130 --> 00:21:11,270
progressed and in some how and this

436
00:21:09,259 --> 00:21:12,920
befuddles me totally it has come back

437
00:21:11,269 --> 00:21:14,740
into the common realm and I do not know

438
00:21:12,920 --> 00:21:17,130
why what's your theory

439
00:21:14,740 --> 00:21:19,990
might think it's partly this

440
00:21:17,130 --> 00:21:22,450
conspiratorial thinking is the internet

441
00:21:19,990 --> 00:21:24,339
largely responsible for it I were just

442
00:21:22,450 --> 00:21:26,950

walking up to a bus now you know we can

443

00:21:24,339 --> 00:21:29,230

get this bus I think okay - oh oh that's

444

00:21:26,950 --> 00:21:33,400

okay yeah yeah we can keep going yeah

445

00:21:29,230 --> 00:21:35,440

anyway and it is the same sort of

446

00:21:33,400 --> 00:21:37,660

thinking that is behind a lot of

447

00:21:35,440 --> 00:21:39,250

conspiracy theories like chemtrails and

448

00:21:37,660 --> 00:21:42,580

Andy vaccinations and that stuff people

449

00:21:39,250 --> 00:21:44,410

just jump on board it's a simple message

450

00:21:42,579 --> 00:21:46,449

the earth is fact that you've been lied

451

00:21:44,410 --> 00:21:48,820

to all this time is that part of the

452

00:21:46,450 --> 00:21:50,650

whole wellness conspiracy theory hang on

453

00:21:48,819 --> 00:21:55,599

yeah we're just sitting on the bus now

454

00:21:50,650 --> 00:21:58,080

is interviewing on the run there goes my

455

00:21:55,599 --> 00:21:58,079

ticket is

456

00:21:58,349 --> 00:22:01,889

registered okay we're back here welcome

457
00:22:00,808 --> 00:22:04,019
welcome to my office

458
00:22:01,890 --> 00:22:08,730
so as part of the illness conspiracy

459
00:22:04,019 --> 00:22:10,529
theory where the wellness guru gives you

460
00:22:08,730 --> 00:22:13,710
secret knowledge that Western medicine

461
00:22:10,529 --> 00:22:16,379
is covering us yes so you are now part

462
00:22:13,710 --> 00:22:18,058
of the secret people who have the real

463
00:22:16,380 --> 00:22:21,000
knowledge you have left being one of the

464
00:22:18,058 --> 00:22:22,980
sheeple of me sure yes sheep and people

465
00:22:21,000 --> 00:22:25,349
and you are now one of the elite who

466
00:22:22,980 --> 00:22:27,179
really knows what's going on you're

467
00:22:25,349 --> 00:22:28,649
beating the system you're ahead of the

468
00:22:27,179 --> 00:22:30,059
curve all that sort of stuff yeah so

469
00:22:28,650 --> 00:22:32,130
maybe there's one element of

470
00:22:30,058 --> 00:22:34,798
attractiveness about a conspiracy theory

471
00:22:32,130 --> 00:22:36,419
but the overwhelming thing for me is

472
00:22:34,798 --> 00:22:38,609
that it's just plain wrong and the earth

473
00:22:36,419 --> 00:22:40,679
effect we're not just flat but but

474
00:22:38,609 --> 00:22:42,209
easily demonstrated to be circular

475
00:22:40,679 --> 00:22:44,730
spherical and I think you're right but

476
00:22:42,210 --> 00:22:46,470
on the same line the other thing that is

477
00:22:44,730 --> 00:22:48,539
very worrying to us lately in the last

478
00:22:46,470 --> 00:22:50,640
six months we are getting more and more

479
00:22:48,539 --> 00:22:53,099
reports about Meisel outbreaks around

480
00:22:50,640 --> 00:22:54,940
the world where we thought measles have

481
00:22:53,099 --> 00:22:57,609
been done

482
00:22:54,940 --> 00:23:00,039
this is what is known in the military

483
00:22:57,609 --> 00:23:03,129
traders collateral damage where of these

484
00:23:00,039 --> 00:23:06,460
people who do get measles as a result as

485

00:23:03,130 --> 00:23:10,890
a direct result of declining herd

486
00:23:06,460 --> 00:23:14,620
immunity 1000 of them will die and

487
00:23:10,890 --> 00:23:16,390
having worked as a medical doctor I find

488
00:23:14,619 --> 00:23:18,369
this very distressing I was there

489
00:23:16,390 --> 00:23:20,380
working in Sydney at the Children's

490
00:23:18,369 --> 00:23:21,939
Hospital and Kevin down went after a 20

491
00:23:20,380 --> 00:23:23,950
year period of zero deaths from whooping

492
00:23:21,940 --> 00:23:24,490
cough we had the first death in all of

493
00:23:23,950 --> 00:23:27,880
Australia

494
00:23:24,490 --> 00:23:31,180
dude dude totally to the TV series a

495
00:23:27,880 --> 00:23:32,890
Current Affair giving huge publicity to

496
00:23:31,180 --> 00:23:34,720
the anti-vaxxers yeah I don't know what

497
00:23:32,890 --> 00:23:36,460
I was selling mate was dog food maybe it

498
00:23:34,720 --> 00:23:37,990
was cars but as far as they were

499
00:23:36,460 --> 00:23:39,340

concerned they were getting people

500

00:23:37,990 --> 00:23:42,009

watching this show yeah and the fact

501

00:23:39,339 --> 00:23:43,720

that they told them lies about

502

00:23:42,009 --> 00:23:44,019

vaccinations which led to the different

503

00:23:43,720 --> 00:23:47,140

baby

504

00:23:44,019 --> 00:23:49,089

well they didn't deliberately go and

505

00:23:47,140 --> 00:23:50,530

kill the baby they just said words and

506

00:23:49,089 --> 00:23:52,959

if people chose not to give vaccinate

507

00:23:50,529 --> 00:23:54,309

and a baby dog woofs they say to

508

00:23:52,960 --> 00:23:55,840

themselves they weren't responsible his

509

00:23:54,309 --> 00:23:57,250

typical tabloid television is that they

510

00:23:55,839 --> 00:23:59,259

just after the story after the

511

00:23:57,250 --> 00:24:01,450

sensational after the shock or whatever

512

00:23:59,259 --> 00:24:03,640

it is I actually spoke to the person

513

00:24:01,450 --> 00:24:05,170

involved who was one of the bigwigs on

514
00:24:03,640 --> 00:24:06,940
whether one of the presenters on a

515
00:24:05,170 --> 00:24:09,460
Current Affair in the green room at

516
00:24:06,940 --> 00:24:12,700
channel 9 and approached that person and

517
00:24:09,460 --> 00:24:14,380
they stuck very resolutely to the line

518
00:24:12,700 --> 00:24:17,799
that there were two sides of the story

519
00:24:14,380 --> 00:24:19,380
and that they were just giving equal

520
00:24:17,799 --> 00:24:22,649
time

521
00:24:19,380 --> 00:24:25,860
each side the story however consider

522
00:24:22,650 --> 00:24:27,929
this suppose that you are a chef and

523
00:24:25,859 --> 00:24:30,209
that you have a terrible terrible

524
00:24:27,929 --> 00:24:31,380
infectious disease and as a result

525
00:24:30,210 --> 00:24:33,269
you've got terrible terrible diarrhea

526
00:24:31,380 --> 00:24:35,220
but times are bad so you got to keep on

527
00:24:33,269 --> 00:24:37,410
working to earn money and you go to the

528

00:24:35,220 --> 00:24:39,538

bathroom and you end up getting feces on

529

00:24:37,410 --> 00:24:41,820

your hands and you Pepe I would serve

530

00:24:39,538 --> 00:24:43,890

some food well one option is that you

531

00:24:41,819 --> 00:24:45,240

wash your hands and the other option is

532

00:24:43,890 --> 00:24:47,070

that you don't Willis two options each

533

00:24:45,240 --> 00:24:48,779

option according to the character fair

534

00:24:47,069 --> 00:24:50,428

theory it does equal weight and so

535

00:24:48,779 --> 00:24:52,288

therefore you don't wash your hands and

536

00:24:50,429 --> 00:24:55,350

then you spread your disease among

537

00:24:52,288 --> 00:24:57,269

people so you do not always have equal

538

00:24:55,349 --> 00:24:58,859

weight to each side of the story

539

00:24:57,269 --> 00:25:00,839

sometimes one side has more weight than

540

00:24:58,859 --> 00:25:03,808

the other in case of explanation we've

541

00:25:00,839 --> 00:25:06,389

got 400 years of data range starting off

542

00:25:03,808 --> 00:25:08,129
with variolation going into vaccination

543
00:25:06,390 --> 00:25:09,960
and David Isaac's our professor of

544
00:25:08,130 --> 00:25:12,059
pediatrics has written a book on this

545
00:25:09,960 --> 00:25:14,579
called something about Masters of

546
00:25:12,058 --> 00:25:17,329
Deception David Isaac's a wonderful book

547
00:25:14,579 --> 00:25:19,408
on vaccination masters of death now Trey

548
00:25:17,329 --> 00:25:21,509
masters of something we can look it up

549
00:25:19,409 --> 00:25:23,480
that remind your story reminds me the

550
00:25:21,509 --> 00:25:25,408
other thing false balance or false

551
00:25:23,480 --> 00:25:27,058
compromise where you say well what's a

552
00:25:25,409 --> 00:25:30,000
compromise okay well what's just one

553
00:25:27,058 --> 00:25:32,279
hand he can wash one here

554
00:25:30,000 --> 00:25:34,980
yeah well so getting back to what people

555
00:25:32,279 --> 00:25:36,869
believe conspiracy theories a lot of

556
00:25:34,980 --> 00:25:39,960

reading on it a lot of literature I

557

00:25:36,869 --> 00:25:42,479

still haven't found any answer that

558

00:25:39,960 --> 00:25:44,279

convinces me to this is the correct

559

00:25:42,480 --> 00:25:47,460

reason as to why people believe rubbish

560

00:25:44,279 --> 00:25:49,109

but nevertheless you see people you hear

561

00:25:47,460 --> 00:25:50,940

them in the world around you believing

562

00:25:49,109 --> 00:25:52,439

rubbish so it's a real phenomenon but I

563

00:25:50,940 --> 00:25:53,130

don't have a group cause for a good

564

00:25:52,440 --> 00:25:55,380

explanation

565

00:25:53,130 --> 00:25:57,450

thank you dr. Karl and yes we are

566

00:25:55,380 --> 00:25:59,610

recording in the middle of a city bus

567

00:25:57,450 --> 00:26:01,470

heading up city roads

568

00:25:59,609 --> 00:26:04,169

yeah this is City Road isn't the City

569

00:26:01,470 --> 00:26:07,049

Road University yeah and when they built

570

00:26:04,170 --> 00:26:09,630

the University of Sydney 150 or so years

571
00:26:07,049 --> 00:26:11,579
ago it was there were much many

572
00:26:09,630 --> 00:26:13,920
complaints because it was too far out of

573
00:26:11,579 --> 00:26:16,099
the town of City being a whole kilometer

574
00:26:13,920 --> 00:26:16,100
away

575
00:26:16,849 --> 00:26:25,448
[Music]

576
00:26:27,650 --> 00:26:31,710
today this dr. Karl Karl Chris must be

577
00:26:30,240 --> 00:26:33,900
proud to be a skeptic and you can find

578
00:26:31,710 --> 00:26:37,460
out more about me at dr. Karl calm and

579
00:26:33,900 --> 00:26:37,460
get lots of free stuff there as well

580
00:26:38,869 --> 00:26:49,679
[Music]

581
00:26:51,440 --> 00:26:55,830
here we are once again may the 4th be

582
00:26:54,029 --> 00:26:58,470
with you it's the 4th of May I'm here at

583
00:26:55,829 --> 00:27:00,538
the East Sydney doctors and I'm looking

584
00:26:58,470 --> 00:27:02,279
at a wondrous sight Trish and I'm

585
00:27:00,538 --> 00:27:05,220
looking at a wondrous sight it's a table

586
00:27:02,279 --> 00:27:07,918
full of cupcakes and that's what we're

587
00:27:05,220 --> 00:27:09,480
really here for and after we eat the

588
00:27:07,919 --> 00:27:11,669
cupcakes or before we eat the cupcakes

589
00:27:09,480 --> 00:27:14,250
were all going to get a flu vaccination

590
00:27:11,669 --> 00:27:15,990
oh you're tempting me now you're opening

591
00:27:14,250 --> 00:27:17,220
up the cupcakes in front of my eyes what

592
00:27:15,990 --> 00:27:20,009
are they they're blueberry ones are

593
00:27:17,220 --> 00:27:23,400
savory we've got chocolate we've got all

594
00:27:20,009 --> 00:27:26,579
sorts of oh what's this mini chop chip

595
00:27:23,400 --> 00:27:28,140
muffins this is pretty this is pretty

596
00:27:26,579 --> 00:27:30,269
good so we did this last year so

597
00:27:28,140 --> 00:27:33,630
skeptics here in Sydney had a

598
00:27:30,269 --> 00:27:35,639
vaccination day flu vaccination day and

599

00:27:33,630 --> 00:27:39,330
it was a great success in fact I

600
00:27:35,640 --> 00:27:41,700
reported on that on show 500 and we're

601
00:27:39,329 --> 00:27:43,319
back again hello Lara from the committee

602
00:27:41,700 --> 00:27:46,319
you're here for your vaccinations yes I

603
00:27:43,319 --> 00:27:48,808
am yes the WiiU here last year remind me

604
00:27:46,319 --> 00:27:52,168
for this day I was here last year I

605
00:27:48,808 --> 00:27:55,079
forget these things and oh there's dr.

606
00:27:52,169 --> 00:27:56,429
Brad McCoy stepping forward with his

607
00:27:55,079 --> 00:27:59,099
medical supplies you'll be giving

608
00:27:56,429 --> 00:28:00,990
yourself vaccinations a bit later on

609
00:27:59,099 --> 00:28:03,269
we're expecting a good turn up here

610
00:28:00,990 --> 00:28:04,890
today and I think it sends out a good

611
00:28:03,269 --> 00:28:06,629
message yeah we've got quite a lot of

612
00:28:04,890 --> 00:28:08,520
people registered so assuming they will

613
00:28:06,630 --> 00:28:09,929

turn up we're gonna be very very busy if

614

00:28:08,519 --> 00:28:10,650

they don't turn up we get to eat all

615

00:28:09,929 --> 00:28:13,400

these cupcakes

616

00:28:10,650 --> 00:28:13,400

yes that's gonna be good

617

00:28:13,910 --> 00:28:19,110

it's Tim Mendham the editor of extreme

618

00:28:16,799 --> 00:28:20,789

skeptics magazine the skeptic the

619

00:28:19,109 --> 00:28:23,279

skeptic has the latest issue coming

620

00:28:20,789 --> 00:28:24,839

along Jim X I got one not so long ago in

621

00:28:23,279 --> 00:28:25,829

the post you would have done actually

622

00:28:24,839 --> 00:28:27,389

that would have been the March issues

623

00:28:25,829 --> 00:28:28,649

we're working on the June issue right

624

00:28:27,390 --> 00:28:31,680

now which is obviously going to come out

625

00:28:28,650 --> 00:28:34,140

in June pretty appropriate big feature

626

00:28:31,680 --> 00:28:35,220

in that on free speech and what it

627

00:28:34,140 --> 00:28:37,620

actually means and what are the legal

628
00:28:35,220 --> 00:28:41,630
implications of free speech plus other

629
00:28:37,619 --> 00:28:44,489
stories major article about UFO

630
00:28:41,630 --> 00:28:46,080
claimants and the US military and how

631
00:28:44,490 --> 00:28:47,849
they actually interact or not actually

632
00:28:46,079 --> 00:28:48,599
in the secret knowledge that sort of

633
00:28:47,849 --> 00:28:50,849
thing

634
00:28:48,599 --> 00:28:52,379
and in that sort of Spacey theme because

635
00:28:50,849 --> 00:28:55,939
we have to note that it is actually the

636
00:28:52,380 --> 00:29:00,270
50th anniversary well the moon landing

637
00:28:55,940 --> 00:29:05,789
absolutely it is indeed and the it is

638
00:29:00,269 --> 00:29:08,279
that's that in very soon and we were

639
00:29:05,789 --> 00:29:11,549
just having a discussion before because

640
00:29:08,279 --> 00:29:14,160
today on the interwebs it came to my

641
00:29:11,549 --> 00:29:16,799
attention that I've been quoted somebody

642
00:29:14,160 --> 00:29:18,930
in Duluth read an article in The

643
00:29:16,799 --> 00:29:20,490
Skeptical Inquirer and used my name

644
00:29:18,930 --> 00:29:22,920
to write a letter to the editor of

645
00:29:20,490 --> 00:29:24,150
something else oh it was quite it's

646
00:29:22,920 --> 00:29:27,470
quite interesting and you were saying

647
00:29:24,150 --> 00:29:29,670
that not so long ago the skeptics were

648
00:29:27,470 --> 00:29:31,740
taken to task in a letter to the editor

649
00:29:29,670 --> 00:29:33,330
but the person got us completely wrong

650
00:29:31,740 --> 00:29:34,980
that's right exactly right I mean sort

651
00:29:33,329 --> 00:29:37,169
of obviously we're becoming very famous

652
00:29:34,980 --> 00:29:38,940
in the u.s. yeah in that what Duluth of

653
00:29:37,170 --> 00:29:43,350
decent and when I got mentioned in was a

654
00:29:38,940 --> 00:29:45,480
tiny town and yeah they were talking

655
00:29:43,349 --> 00:29:47,609
about some of the acclaim that was a

656

00:29:45,480 --> 00:29:48,779
response to a different letter and they

657
00:29:47,609 --> 00:29:51,599
made a claim that the Australian

658
00:29:48,779 --> 00:29:53,970
skeptics but you know stand for this etc

659
00:29:51,599 --> 00:29:55,439
and we've given an award to someone for

660
00:29:53,970 --> 00:29:58,079
this particular I think about climate

661
00:29:55,440 --> 00:29:59,759
change simply gave an award to someone

662
00:29:58,079 --> 00:30:01,439
about it was against climate change they

663
00:29:59,759 --> 00:30:04,019
had to write back and say correct the

664
00:30:01,440 --> 00:30:06,429
well people just assume that we are

665
00:30:04,019 --> 00:30:08,769
because they hear the word skeptic

666
00:30:06,429 --> 00:30:11,288
they've heard the words climate change

667
00:30:08,769 --> 00:30:12,700
skeptics only are Australians given exam

668
00:30:11,288 --> 00:30:14,048
they must be climate change skeptics

669
00:30:12,700 --> 00:30:16,480
yeah well sort of one person who's

670
00:30:14,048 --> 00:30:18,368

particularly known as a against climate

671

00:30:16,480 --> 00:30:19,960

change here in Australia many years ago

672

00:30:18,368 --> 00:30:22,778

was a very good worker for Australian

673

00:30:19,960 --> 00:30:23,980

skeptics against creationists yeah that

674

00:30:22,778 --> 00:30:26,378

was a totally different thing but I mean

675

00:30:23,980 --> 00:30:28,179

he was very effective in that area and

676

00:30:26,378 --> 00:30:29,859

we supported him Amanda we gave him an

677

00:30:28,179 --> 00:30:32,019

award because of it but therefore people

678

00:30:29,859 --> 00:30:34,118

confuse the two they do they can diffuse

679

00:30:32,019 --> 00:30:35,919

the two but let there be no confusion we

680

00:30:34,118 --> 00:30:40,569

are not being the same as the climate

681

00:30:35,919 --> 00:30:44,830

change skeptics and you've just had your

682

00:30:40,569 --> 00:30:47,349

flu shot and you're now sticking on a an

683

00:30:44,829 --> 00:30:49,720

Australian skeptics transfer tattoo and

684

00:30:47,349 --> 00:30:52,628

at the same time you're eyeing this

685
00:30:49,720 --> 00:30:53,919
table of cupcakes and muffins and how

686
00:30:52,628 --> 00:30:59,589
was your experience

687
00:30:53,919 --> 00:31:02,169
oh it was fun it didn't hurt the

688
00:30:59,589 --> 00:31:04,658
syringes and these cupcakes look

689
00:31:02,169 --> 00:31:07,509
delicious although I have to say I'm

690
00:31:04,659 --> 00:31:09,278
more of a savory person and I tried them

691
00:31:07,509 --> 00:31:11,349
last time they were delicious but very

692
00:31:09,278 --> 00:31:13,509
sweet you're right actually

693
00:31:11,349 --> 00:31:17,528
what I discovered last year when I had

694
00:31:13,509 --> 00:31:19,028
my flu vaccination dr. brad is it it

695
00:31:17,528 --> 00:31:21,249
doesn't hurt I mean you hardly notice

696
00:31:19,028 --> 00:31:23,528
it's happening at all which is a good

697
00:31:21,249 --> 00:31:25,480
thing no and you know you've got the

698
00:31:23,528 --> 00:31:27,819
benefit of having to worry less about

699
00:31:25,480 --> 00:31:29,679
getting the flu in winter so that's

700
00:31:27,819 --> 00:31:31,118
perfect and it's great weather for a

701
00:31:29,679 --> 00:31:34,298
nice little walk through darlinghurst

702
00:31:31,118 --> 00:31:36,428
and catching up with some skeptics so

703
00:31:34,298 --> 00:31:37,808
that's all good it's a good day and I

704
00:31:36,429 --> 00:31:41,230
think your transfer is just about ready

705
00:31:37,808 --> 00:31:43,450
let's have a look peel off the paper yes

706
00:31:41,230 --> 00:31:46,088
work fantastically

707
00:31:43,450 --> 00:31:50,519
and she should be ready by now so just

708
00:31:46,088 --> 00:31:50,519
oh let me give you an assistance here

709
00:31:52,558 --> 00:31:58,538
there is I got it look at that I just

710
00:31:55,929 --> 00:32:03,849
have to pat down that corner you've got

711
00:31:58,538 --> 00:32:05,108
it thank you thank you I think people

712
00:32:03,848 --> 00:32:06,759
are really coming here just for the

713

00:32:05,108 --> 00:32:09,368
cupcakes you've got what's this a choc

714
00:32:06,759 --> 00:32:12,159
chip one chip muffin yeah it's quite

715
00:32:09,368 --> 00:32:14,048
nice and this is one of the little

716
00:32:12,159 --> 00:32:16,809
bonuses extra bonuses are coming along

717
00:32:14,048 --> 00:32:18,749
the Australian skeptics flu vaccination

718
00:32:16,808 --> 00:32:23,528
day how did you find out about the day I

719
00:32:18,749 --> 00:32:27,548
found out about it on my nursing page

720
00:32:23,528 --> 00:32:31,269
that I study they posted about this free

721
00:32:27,548 --> 00:32:33,098
flu vaccination day right and I just saw

722
00:32:31,269 --> 00:32:36,338
come along if you thought to be a good

723
00:32:33,098 --> 00:32:39,489
thing and I didn't expect this sort of

724
00:32:36,338 --> 00:32:41,019
integrate thing oh you never know what

725
00:32:39,489 --> 00:32:43,169
to expect with the Australian skeptics

726
00:32:41,019 --> 00:32:45,038
but now I'm very pleased to see you and

727
00:32:43,169 --> 00:32:47,889

congratulations are rolling up rolling

728

00:32:45,038 --> 00:32:51,308

up your sleeve as it were and getting

729

00:32:47,888 --> 00:32:53,348

your flu vaccination Thank You Jessica

730

00:32:51,308 --> 00:32:54,999

you're here for your vaccination I'm

731

00:32:53,348 --> 00:32:56,979

here for my vaccination but I'm also

732

00:32:54,999 --> 00:32:59,469

here in my capacity as committee member

733

00:32:56,979 --> 00:33:02,649

meeting and greeting people and giving

734

00:32:59,469 --> 00:33:04,269

them the forms to fill out and generally

735

00:33:02,648 --> 00:33:06,158

helping things run smoothly

736

00:33:04,269 --> 00:33:09,538

I hope watch off - it's off to a great

737

00:33:06,159 --> 00:33:11,889

start there we are dr. bodis as we speak

738

00:33:09,538 --> 00:33:14,200

vaccinating some-somebody us against the

739

00:33:11,888 --> 00:33:17,168

flu we've had people lining up for their

740

00:33:14,200 --> 00:33:19,088

cupcakes and tattoos have you got your

741

00:33:17,169 --> 00:33:20,349

tattoo yet I don't have my tattoo yet

742
00:33:19,088 --> 00:33:21,969
but there's a really good selection

743
00:33:20,348 --> 00:33:25,298
isn't there what would you recommend

744
00:33:21,969 --> 00:33:29,229
this what is that I can't write that

745
00:33:25,298 --> 00:33:31,358
oh it says spread live not the flu this

746
00:33:29,229 --> 00:33:32,950
one is our logo these stones that I've

747
00:33:31,358 --> 00:33:36,968
got one on each hand strain sceptics

748
00:33:32,950 --> 00:33:39,129
logo there we go fantastic dude do we

749
00:33:36,969 --> 00:33:41,828
also have a hug me unvaccinated one yeah

750
00:33:39,128 --> 00:33:46,919
I think so I think so we'll put that one

751
00:33:41,828 --> 00:33:49,619
on you in your thank-you

752
00:33:46,920 --> 00:33:51,570
and it's come to my turn hi dr. Brad

753
00:33:49,619 --> 00:33:52,949
hello Richards great to see you again

754
00:33:51,569 --> 00:33:55,409
haven't seen you for a little while but

755
00:33:52,950 --> 00:33:57,210
you do mine exotic travel gallivanting

756
00:33:55,410 --> 00:33:58,860
around the place but I send you messages

757
00:33:57,210 --> 00:34:02,400
say dr. Brad I've got this nasty

758
00:33:58,859 --> 00:34:04,019
reaction when you send me photos that

759
00:34:02,400 --> 00:34:05,580
know the problems the problem anyway

760
00:34:04,019 --> 00:34:08,369
Here I am I'm sitting next to dr. Brad

761
00:34:05,579 --> 00:34:12,139
were under the flu vaccination sign and

762
00:34:08,369 --> 00:34:14,609
I'm time for me to roll up my sleeve so

763
00:34:12,139 --> 00:34:20,179
there we go this way you tell everybody

764
00:34:14,610 --> 00:34:21,329
your age Richard Oh everybody knows

765
00:34:20,179 --> 00:34:23,880
21:21

766
00:34:21,329 --> 00:34:28,710
I do he's a 21 year old vaccinate thank

767
00:34:23,880 --> 00:34:31,619
you some somewhere in my early 50s how

768
00:34:28,710 --> 00:34:37,320
about that oh okay now you're just

769
00:34:31,619 --> 00:34:39,029
preparing the syringe Remo to stop

770

00:34:37,320 --> 00:34:42,450
yourself from getting influenza this

771
00:34:39,030 --> 00:34:44,070
year so we have a a quadrivalent vaccine

772
00:34:42,449 --> 00:34:46,678
which protects you against two type A

773
00:34:44,070 --> 00:34:48,630
and two type B influenza viruses yeah

774
00:34:46,679 --> 00:34:50,940
and we're anticipating that it should

775
00:34:48,630 --> 00:34:52,590
last for hopefully three to six months

776
00:34:50,940 --> 00:34:54,269
so getting you through the whole

777
00:34:52,590 --> 00:34:55,980
terrible winter season

778
00:34:54,269 --> 00:34:58,409
excellent and for someone like me who

779
00:34:55,980 --> 00:35:00,389
gather pants I need all the protection I

780
00:34:58,409 --> 00:35:02,789
can get over here if you're not getting

781
00:35:00,389 --> 00:35:04,319
on and off planes all the time then you

782
00:35:02,789 --> 00:35:06,480
are the prime candidate for being

783
00:35:04,320 --> 00:35:08,910
coughed and sneezed on in a in a very

784
00:35:06,480 --> 00:35:10,920

tight tin can in the middle of the sky

785

00:35:08,909 --> 00:35:13,500

oh I think I've been put off flying

786

00:35:10,920 --> 00:35:15,420

forever anyway here it comes here just

787

00:35:13,500 --> 00:35:17,369

preparing my arm at the moment a little

788

00:35:15,420 --> 00:35:20,940

bit of them so you'll need to relax a

789

00:35:17,369 --> 00:35:22,319

little bit more richer I'm not going to

790

00:35:20,940 --> 00:35:29,039

look I'm not going thinking of walking

791

00:35:22,320 --> 00:35:32,309

along the beach yeah oh and yep a little

792

00:35:29,039 --> 00:35:34,170

bit of a scratch yeah and yeah I could

793

00:35:32,309 --> 00:35:36,570

obviously feel it there's no pain it's

794

00:35:34,170 --> 00:35:38,760

just like somebody scratching you or

795

00:35:36,570 --> 00:35:40,680

something overdone hold on oh darling

796

00:35:38,760 --> 00:35:42,790

band-aid goes on you're not allergic to

797

00:35:40,679 --> 00:35:45,819

band-aids

798

00:35:42,789 --> 00:35:47,409

yeah one of those questions doctors

799

00:35:45,820 --> 00:35:48,960
often forget to ask okay interesting

800

00:35:47,409 --> 00:35:52,509
until we are like approaching

801

00:35:48,960 --> 00:35:54,820
approaching you and going oh no well

802

00:35:52,510 --> 00:35:56,470
thank you very much that's great quick

803

00:35:54,820 --> 00:35:58,720
if I can literally painless but the best

804

00:35:56,469 --> 00:36:00,159
thing is now I can legitimately get one

805

00:35:58,719 --> 00:36:02,859
of these cupcakes so again let

806

00:36:00,159 --> 00:36:06,599
everything in balance so yeah healthy to

807

00:36:02,860 --> 00:36:06,599
unhealthy that's fine thank you doctor

808

00:36:08,199 --> 00:36:15,099
skeptics certainly were ready to roll up

809

00:36:11,139 --> 00:36:16,960
there Stephen even even now editor Tim

810

00:36:15,099 --> 00:36:20,949
Mendham is getting his flu vaccination

811

00:36:16,960 --> 00:36:23,199
shot as it happens Tim you're about to

812

00:36:20,949 --> 00:36:25,210
get your flu shot your vaccination your

813
00:36:23,199 --> 00:36:27,609
immunization that the word we must use

814
00:36:25,210 --> 00:36:29,170
whatever it is right now I'm extremely

815
00:36:27,610 --> 00:36:32,280
nervous about this actually I don't know

816
00:36:29,170 --> 00:36:32,280
if this guy knows what he's doing

817
00:36:52,940 --> 00:36:57,019
so flu vaccination days can be a lot of

818
00:36:55,400 --> 00:37:00,280
fighting but actually I'd really enjoy

819
00:36:57,019 --> 00:37:00,280
that actually I'm gonna come back again

820
00:37:00,820 --> 00:37:05,930
now I did this last year the flu

821
00:37:04,190 --> 00:37:07,970
vaccination clinic is well underway

822
00:37:05,929 --> 00:37:12,349
inside I'm walking down onto the street

823
00:37:07,969 --> 00:37:14,239
it's a very quiet out here on the street

824
00:37:12,349 --> 00:37:16,460
it's Martin Headley from the committee

825
00:37:14,239 --> 00:37:17,809
but have you been keeping all the

826
00:37:16,460 --> 00:37:20,059
protesters the anti vaccination

827

00:37:17,809 --> 00:37:21,049
protestors at bay not much trouble from

828
00:37:20,059 --> 00:37:23,299
them so far

829
00:37:21,050 --> 00:37:26,180
in fact it's there's nobody here at the

830
00:37:23,300 --> 00:37:28,360
moment it's very quiet indeed well just

831
00:37:26,179 --> 00:37:30,919
people enjoying a beautiful day yeah

832
00:37:28,360 --> 00:37:32,960
some cyclists going past and his keys

833
00:37:30,920 --> 00:37:33,619
one of these newfangled lectric bikes

834
00:37:32,960 --> 00:37:37,010
there we go

835
00:37:33,619 --> 00:37:38,329
so he oh she is getting power-assist

836
00:37:37,010 --> 00:37:39,950
going up the hill it's rude to point

837
00:37:38,329 --> 00:37:40,489
Richard history at the point I wish him

838
00:37:39,949 --> 00:37:43,969
good

839
00:37:40,489 --> 00:37:46,639
Thank You Martin walk back inside now

840
00:37:43,969 --> 00:37:48,709
and and as was the case last year the

841
00:37:46,639 --> 00:37:52,369

hordes of auntie Beck's protesters did

842

00:37:48,710 --> 00:37:54,230

not show up well it's been a very

843

00:37:52,369 --> 00:37:56,960

enjoyable afternoon here at the Sydney

844

00:37:54,230 --> 00:37:59,900

doctors clinic more and more people are

845

00:37:56,960 --> 00:38:02,329

coming up we've got a young family just

846

00:37:59,900 --> 00:38:04,099

coming up for flu vaccinations Brad is

847

00:38:02,329 --> 00:38:06,079

busy in the corner there chatting to the

848

00:38:04,099 --> 00:38:08,179

next patient to get their flu

849

00:38:06,079 --> 00:38:09,739

vaccination and I think it's a very

850

00:38:08,179 --> 00:38:12,049

worthwhile thing that the Australian

851

00:38:09,739 --> 00:38:14,109

skeptics have done last year and this

852

00:38:12,050 --> 00:38:17,440

year helping to protect our community

853

00:38:14,110 --> 00:38:17,440

against disease

854

00:38:17,980 --> 00:38:25,769

[Music]

855

00:38:29,409 --> 00:38:34,849

hi my name is Trish and can I just talk

856
00:38:32,719 --> 00:38:36,349
to you about the flu vaccine or more

857
00:38:34,849 --> 00:38:38,389
specifically when you should get

858
00:38:36,349 --> 00:38:40,009
immunized in the southern hemisphere the

859
00:38:38,389 --> 00:38:41,269
flu vaccine becomes available in March

860
00:38:40,010 --> 00:38:44,000
but should you run out and get it

861
00:38:41,269 --> 00:38:45,710
straight away or should you wait as you

862
00:38:44,000 --> 00:38:47,570
may know you need to get an updated flu

863
00:38:45,710 --> 00:38:49,730
vaccine every year to keep up with the

864
00:38:47,570 --> 00:38:51,830
mutating virus and the latest research

865
00:38:49,730 --> 00:38:53,480
shows a vaccine may only last for three

866
00:38:51,829 --> 00:38:56,150
to six months before you lose protection

867
00:38:53,480 --> 00:38:58,039
so timing is essential while the world

868
00:38:56,150 --> 00:38:59,539
sees cases of influenza throughout the

869
00:38:58,039 --> 00:39:01,880
year in the southern hemisphere the

870
00:38:59,539 --> 00:39:03,590
thirties and really begins in June it

871
00:39:01,880 --> 00:39:05,630
spreads through offices and train

872
00:39:03,590 --> 00:39:08,480
carriages increasing to peak flu season

873
00:39:05,630 --> 00:39:10,820
around August and it's usually all over

874
00:39:08,480 --> 00:39:13,250
and done with by October so what's the

875
00:39:10,820 --> 00:39:14,930
best time well you don't need to rush to

876
00:39:13,250 --> 00:39:16,550
the pharmacy too early but the vaccine

877
00:39:14,929 --> 00:39:18,259
does take a couple of weeks before it

878
00:39:16,550 --> 00:39:20,240
starts working so don't wait until

879
00:39:18,260 --> 00:39:23,030
everyone's already snotty and miserable

880
00:39:20,239 --> 00:39:24,618
it looks like May is a good time to get

881
00:39:23,030 --> 00:39:26,660
immunized because the vaccine will offer

882
00:39:24,619 --> 00:39:28,940
the best protection over the peak of the

883
00:39:26,659 --> 00:39:30,230
season you may be listening to this and

884

00:39:28,940 --> 00:39:32,030
wondering if you could just go ahead and

885
00:39:30,230 --> 00:39:34,250
have two vaccines spaced out over the

886
00:39:32,030 --> 00:39:36,440
year well you might be right you might

887
00:39:34,250 --> 00:39:38,659
be wrong science hasn't proven this yet

888
00:39:36,440 --> 00:39:40,369
and while it might sound logical it's

889
00:39:38,659 --> 00:39:42,649
probably best to wait until we know for

890
00:39:40,369 --> 00:39:44,780
sure this information is based on a

891
00:39:42,650 --> 00:39:46,190
typical flu season so keep an eye out

892
00:39:44,780 --> 00:39:48,050
for bulletins from your local public

893
00:39:46,190 --> 00:39:50,358
health department as each season has its

894
00:39:48,050 --> 00:39:52,039
own individual quirks and of course if

895
00:39:50,358 --> 00:39:53,920
you have problems with your health or if

896
00:39:52,039 --> 00:39:57,320
you're pregnant speak with your doctor

897
00:39:53,920 --> 00:39:59,300
above all else the most effective way to

898
00:39:57,320 --> 00:40:02,119

protect yourself from the flu is to get

899

00:39:59,300 --> 00:40:03,920

vaccinated it not only decreases your

900

00:40:02,119 --> 00:40:05,358

chance of becoming a snotty flu factory

901

00:40:03,920 --> 00:40:06,950

but it might just stop you from

902

00:40:05,358 --> 00:40:10,590

infecting your friends and family with a

903

00:40:06,949 --> 00:40:26,079

virus that kills thousands every year

904

00:40:10,590 --> 00:40:28,090

[Music]

905

00:40:26,079 --> 00:40:31,090

and joining me now from Canberra

906

00:40:28,090 --> 00:40:35,650

Australia's capital it's Tom and girona

907

00:40:31,090 --> 00:40:38,620

from pint of science hello hello very

908

00:40:35,650 --> 00:40:40,750

lovely to be here hi Ricky thanks a lot

909

00:40:38,619 --> 00:40:42,460

for sparing some time to tell me

910

00:40:40,750 --> 00:40:45,280

especially me and all our listeners

911

00:40:42,460 --> 00:40:47,199

around the world about pint of science

912

00:40:45,280 --> 00:40:50,140

now I like a pint I like a pint of

913
00:40:47,199 --> 00:40:53,439
Guinness myself what's pint of science

914
00:40:50,139 --> 00:40:56,109
all about so pi designs is an

915
00:40:53,440 --> 00:41:00,010
international special across three days

916
00:40:56,110 --> 00:41:02,079
or a week in may now this here is the

917
00:41:00,010 --> 00:41:05,230
main festival goes through the 20th to

918
00:41:02,079 --> 00:41:07,509
the 22nd of May and the aim is to get

919
00:41:05,230 --> 00:41:10,090
scientists down to the pub have a bit of

920
00:41:07,510 --> 00:41:13,660
a chat over a bevy or two depending what

921
00:41:10,090 --> 00:41:16,450
you're into and discuss science or to be

922
00:41:13,659 --> 00:41:17,920
more specific their current research so

923
00:41:16,449 --> 00:41:19,960
we're interested in finding out what

924
00:41:17,920 --> 00:41:22,420
they're up to right now and what's the

925
00:41:19,960 --> 00:41:24,760
upcoming science that's happening around

926
00:41:22,420 --> 00:41:26,920
us or to be honest just around the

927
00:41:24,760 --> 00:41:28,870
corner from you what we really love

928
00:41:26,920 --> 00:41:30,909
about it is you're bringing local

929
00:41:28,869 --> 00:41:33,069
research into the local pub to talk to

930
00:41:30,909 --> 00:41:35,279
local people and that's something that

931
00:41:33,070 --> 00:41:38,590
you don't see in a lot of other festival

932
00:41:35,280 --> 00:41:40,690
absolutely now you may you may be aware

933
00:41:38,590 --> 00:41:41,890
that Australian skeptics and skeptics in

934
00:41:40,690 --> 00:41:43,240
general around the world have had

935
00:41:41,889 --> 00:41:46,389
something called skeptics in the pub

936
00:41:43,239 --> 00:41:48,909
going for many many many years and this

937
00:41:46,389 --> 00:41:50,799
is a monthly event but the idea is it's

938
00:41:48,909 --> 00:41:53,559
very informal or you can't get much more

939
00:41:50,800 --> 00:41:55,330
informal than a pub and you have special

940
00:41:53,559 --> 00:41:57,940
guests and speakers and people can just

941

00:41:55,329 --> 00:42:00,670
socialise chat have a drink and discover

942
00:41:57,940 --> 00:42:02,590
more and it seems to me that's

943
00:42:00,670 --> 00:42:04,510
absolutely your philosophy get the

944
00:42:02,590 --> 00:42:07,329
scientists out of the lab get them into

945
00:42:04,510 --> 00:42:09,760
a every day setting so people can simply

946
00:42:07,329 --> 00:42:12,549
talk with them definitely and I think

947
00:42:09,760 --> 00:42:15,730
there's there's nothing greater to

948
00:42:12,550 --> 00:42:17,110
humanize the scientists then for someone

949
00:42:15,730 --> 00:42:18,760
who's sitting in the audience to be

950
00:42:17,110 --> 00:42:20,110
ready for the first talk to start and

951
00:42:18,760 --> 00:42:22,030
the person who's sitting beside you that

952
00:42:20,110 --> 00:42:26,050
you just bought a beer with it gets up

953
00:42:22,030 --> 00:42:30,340
to talk it's a wonderful wonderful

954
00:42:26,050 --> 00:42:32,830
platform to be able to really be able to

955
00:42:30,340 --> 00:42:34,900

hear the person behind the science and

956

00:42:32,829 --> 00:42:38,539

hear the stories and hear about the

957

00:42:34,900 --> 00:42:41,300

science is happening right now that's

958

00:42:38,539 --> 00:42:44,300

we quite often see the big stories that

959

00:42:41,300 --> 00:42:47,150

come through the media we'll hear about

960

00:42:44,300 --> 00:42:49,160

the giant breakthroughs in astronomy or

961

00:42:47,150 --> 00:42:52,309

in medical research but it is really

962

00:42:49,159 --> 00:42:54,349

valuable for us to be able to hear about

963

00:42:52,309 --> 00:42:58,130

a lot of the steps that go along the way

964

00:42:54,349 --> 00:43:00,529

with the science discovery I can't think

965

00:42:58,130 --> 00:43:02,420

of a more enjoyable way to spend an

966

00:43:00,530 --> 00:43:04,369

evening than having a nice social drink

967

00:43:02,420 --> 00:43:06,800

in a very relaxed setting chatting to a

968

00:43:04,369 --> 00:43:09,530

scientist or hearing a scientist bring

969

00:43:06,800 --> 00:43:11,539

their news and information to you what's

970
00:43:09,530 --> 00:43:13,269
happening around Australia to begin with

971
00:43:11,539 --> 00:43:16,699
what have you got lined up

972
00:43:13,269 --> 00:43:19,750
well our festival covers most if not all

973
00:43:16,699 --> 00:43:23,089
topics of science we actually have our

974
00:43:19,750 --> 00:43:25,608
themes as you May to help kind of guide

975
00:43:23,090 --> 00:43:28,039
the audience and our speakers into the

976
00:43:25,608 --> 00:43:30,909
different topics to theme a night so we

977
00:43:28,039 --> 00:43:35,029
have topics that surround things such as

978
00:43:30,909 --> 00:43:36,440
antimatter and talking about all the

979
00:43:35,030 --> 00:43:38,090
things happening in space which is a

980
00:43:36,440 --> 00:43:40,789
very hot topic right now in Australia

981
00:43:38,090 --> 00:43:43,579
yeah we have other things covering

982
00:43:40,789 --> 00:43:46,219
climate change jellyfish

983
00:43:43,579 --> 00:43:48,199
we're talking about koalas which is

984
00:43:46,219 --> 00:43:50,480
really really interesting for those who

985
00:43:48,199 --> 00:43:53,659
don't know it is a marsupial animal that

986
00:43:50,480 --> 00:43:57,639
is kind of like a kangaroo but much

987
00:43:53,659 --> 00:43:58,789
smaller and is spotted we're talking

988
00:43:57,639 --> 00:44:02,480
firestorms

989
00:43:58,789 --> 00:44:04,130
and it's such a big array of different

990
00:44:02,480 --> 00:44:07,550
fields of science we're covering things

991
00:44:04,130 --> 00:44:10,039
from all the way including politics and

992
00:44:07,550 --> 00:44:12,140
policies around science and including

993
00:44:10,039 --> 00:44:15,889
things you might be more familiar with

994
00:44:12,139 --> 00:44:18,559
in the animal fields or the microbiology

995
00:44:15,889 --> 00:44:21,349
fields but then there's also things such

996
00:44:18,559 --> 00:44:23,869
as brains and neuroscience and talking

997
00:44:21,349 --> 00:44:25,789
about how we think when even our mental

998

00:44:23,869 --> 00:44:28,210
health is becoming a topic that comes

999
00:44:25,789 --> 00:44:30,710
through with our scientists as well so

1000
00:44:28,210 --> 00:44:33,079
it's everything that you could think

1001
00:44:30,710 --> 00:44:34,970
goes under the banner of science we've

1002
00:44:33,079 --> 00:44:39,259
probably got a topic about it it's

1003
00:44:34,969 --> 00:44:41,689
actually a really really fun way for for

1004
00:44:39,260 --> 00:44:43,010
you to go along and find out bits of

1005
00:44:41,690 --> 00:44:44,570
science that you're not familiar with

1006
00:44:43,010 --> 00:44:47,450
them that's actually something that we

1007
00:44:44,570 --> 00:44:49,250
find a lot of a lot of our audience who

1008
00:44:47,449 --> 00:44:51,759
are already professional researchers who

1009
00:44:49,250 --> 00:44:54,639
do come along they use this kind of

1010
00:44:51,760 --> 00:44:57,220
as a as a way of being able to find out

1011
00:44:54,639 --> 00:44:58,809
what other science is happening as

1012
00:44:57,219 --> 00:45:00,279

opposed to just sticking to their their

1013

00:44:58,809 --> 00:45:01,779
own the only mate chemistry if there are

1014

00:45:00,280 --> 00:45:03,490
chemists or only their biology of their

1015

00:45:01,780 --> 00:45:05,440
a biologist and that reminds me of the

1016

00:45:03,489 --> 00:45:07,149
story you were telling me where a

1017

00:45:05,440 --> 00:45:09,490
scientists went along to another

1018

00:45:07,150 --> 00:45:12,070
scientist event and actually found out a

1019

00:45:09,489 --> 00:45:14,409
way to change their research to then

1020

00:45:12,070 --> 00:45:15,130
find out their problem I can't remember

1021

00:45:14,409 --> 00:45:16,149
the full story

1022

00:45:15,130 --> 00:45:17,590
do you remember what I'm told I'm not

1023

00:45:16,150 --> 00:45:19,358
sure I can remember the full story but I

1024

00:45:17,590 --> 00:45:21,820
remember the context around it yeah and

1025

00:45:19,358 --> 00:45:24,429
I know that they then went on to form a

1026

00:45:21,820 --> 00:45:25,840
collaboration and so I don't I don't

1027
00:45:24,429 --> 00:45:28,569
think there's any anything that's come

1028
00:45:25,840 --> 00:45:29,858
out yet but definitely there has been a

1029
00:45:28,570 --> 00:45:31,690
recent at least one research

1030
00:45:29,858 --> 00:45:34,690
collaboration that we can claim at point

1031
00:45:31,690 --> 00:45:36,250
of science I'm sure you're right and you

1032
00:45:34,690 --> 00:45:38,079
know what folks I'm just looking at the

1033
00:45:36,250 --> 00:45:40,690
website as we're chatting which is pint

1034
00:45:38,079 --> 00:45:42,940
of science one word.com today you and

1035
00:45:40,690 --> 00:45:44,980
I'm blown away it should be called

1036
00:45:42,940 --> 00:45:47,230
gallon of science because there's a

1037
00:45:44,980 --> 00:45:48,969
little button here you scroll down every

1038
00:45:47,230 --> 00:45:51,369
major city just about in Australia's

1039
00:45:48,969 --> 00:45:53,649
covered and just for example I'm

1040
00:45:51,369 --> 00:45:55,869
pressing on the Cindy button and event

1041
00:45:53,650 --> 00:45:58,119
after event after event this is all

1042
00:45:55,869 --> 00:46:01,809
happening from the 20th to the 22nd of

1043
00:45:58,119 --> 00:46:03,550
May here in Australia more science and

1044
00:46:01,809 --> 00:46:07,779
you can focus to get but how does it

1045
00:46:03,550 --> 00:46:11,920
work internationally so so it did start

1046
00:46:07,780 --> 00:46:15,609
in the UK and then very very rapidly

1047
00:46:11,920 --> 00:46:18,789
the idea grew and shared around the

1048
00:46:15,608 --> 00:46:21,190
world so in 2013 7 in the UK the very

1049
00:46:18,789 --> 00:46:24,190
next year that turned up in Sydney in

1050
00:46:21,190 --> 00:46:25,840
Australia in 2014 and then the year

1051
00:46:24,190 --> 00:46:29,829
after that I think we were in something

1052
00:46:25,840 --> 00:46:32,710
like four or five cities and we fast

1053
00:46:29,829 --> 00:46:35,920
forward to 2019 and we are in 19 cities

1054
00:46:32,710 --> 00:46:38,530
around the country so far there are 24

1055

00:46:35,920 --> 00:46:41,710
countries that have a part of the

1056
00:46:38,530 --> 00:46:45,280
festival and there's supposed to be over

1057
00:46:41,710 --> 00:46:48,250
400 and 400 venues and over a thousand

1058
00:46:45,280 --> 00:46:50,320
events it's a huge festival it certainly

1059
00:46:48,250 --> 00:46:53,500
is folks once again I can recommend that

1060
00:46:50,320 --> 00:46:55,800
you visit pint of science.com today you

1061
00:46:53,500 --> 00:46:59,469
do that now to see what's coming up

1062
00:46:55,800 --> 00:47:01,420
later on in May and if you're in near

1063
00:46:59,469 --> 00:47:02,500
one of these events do you have a wealth

1064
00:47:01,420 --> 00:47:05,680
of

1065
00:47:02,500 --> 00:47:07,480
of topics and subjects and scientists

1066
00:47:05,679 --> 00:47:09,819
you can have a drink with and you can

1067
00:47:07,480 --> 00:47:11,980
learn a lot more about it well I'm

1068
00:47:09,820 --> 00:47:14,019
looking forward to it immensely I'm

1069
00:47:11,980 --> 00:47:16,090

already perusing which events I will

1070

00:47:14,019 --> 00:47:17,500

attend here in Sydney there are just so

1071

00:47:16,090 --> 00:47:21,160

many to choose from in lots of different

1072

00:47:17,500 --> 00:47:23,019

pubs but for now Tom and Jonah all the

1073

00:47:21,159 --> 00:47:27,440

way from Canberra for pint of science

1074

00:47:23,019 --> 00:47:37,440

thank you very much thank you thank you

1075

00:47:27,440 --> 00:47:39,849

[Music]

1076

00:47:37,440 --> 00:47:41,679

now here are some announcements from

1077

00:47:39,849 --> 00:47:45,269

sceptical events happening around

1078

00:47:41,679 --> 00:47:48,579

Australia on Tuesday the 14th of May

1079

00:47:45,269 --> 00:47:51,699

secret scientists Australian code

1080

00:47:48,579 --> 00:47:54,130

breakers in the second world war this is

1081

00:47:51,699 --> 00:47:57,730

brought to you by social skeptics in

1082

00:47:54,130 --> 00:48:01,660

Canberra from 6 p.m. to 7:30 p.m. with

1083

00:47:57,730 --> 00:48:04,090

guest speaker David Duffy the venue is

1084
00:48:01,659 --> 00:48:06,429
the Belconnen community service in

1085
00:48:04,090 --> 00:48:09,670
Chandler Street Belconnen in the a CT

1086
00:48:06,429 --> 00:48:11,589
and the cost is free during the Second

1087
00:48:09,670 --> 00:48:14,940
World War a motley collection of

1088
00:48:11,590 --> 00:48:18,070
mathematicians classicists linguists and

1089
00:48:14,940 --> 00:48:20,470
radio experts came together in a secret

1090
00:48:18,070 --> 00:48:24,100
organization in brisbane to crack the

1091
00:48:20,469 --> 00:48:26,949
japanese military codes drawing from his

1092
00:48:24,099 --> 00:48:30,039
book the secret code breakers of central

1093
00:48:26,949 --> 00:48:32,769
bureau david duffy will take us into the

1094
00:48:30,039 --> 00:48:35,679
hidden lives of these unsung australian

1095
00:48:32,769 --> 00:48:38,349
heroes and their world of deadly puzzles

1096
00:48:35,679 --> 00:48:42,719
now that sounds like a fascinating talk

1097
00:48:38,349 --> 00:48:43,839
you can find out more by visiting WWE

1098
00:48:42,719 --> 00:48:47,649
skeptics

1099
00:48:43,840 --> 00:48:49,780
org and our friends in the Mordy Alex

1100
00:48:47,650 --> 00:48:54,130
skeptics in the pub the Morty skeptics

1101
00:48:49,780 --> 00:48:57,460
in the pub on the 4th of June have the

1102
00:48:54,130 --> 00:49:01,510
Science Talent Search promoting science

1103
00:48:57,460 --> 00:49:04,240
education for 68 years and that's from

1104
00:49:01,510 --> 00:49:06,760
7:30 p.m. to 9:30 p.m.

1105
00:49:04,239 --> 00:49:27,368
and I will have links to both those

1106
00:49:06,760 --> 00:49:43,599
events in this week's show notes life is

1107
00:49:27,369 --> 00:49:46,119
wild with Michelle Franklin do you

1108
00:49:43,599 --> 00:49:48,338
remember a few years back when a rich

1109
00:49:46,119 --> 00:49:50,910
and famous actor decided to bring his

1110
00:49:48,338 --> 00:49:53,500
beloved pets into Australia on a holiday

1111
00:49:50,909 --> 00:49:56,049
but instead of doing it the legal way by

1112

00:49:53,500 --> 00:49:57,730
putting them through quarantine first he

1113
00:49:56,050 --> 00:50:01,180
decided to just smuggle them in and not

1114
00:49:57,730 --> 00:50:04,240
tell anyone and then do you remember the

1115
00:50:01,179 --> 00:50:06,759
uproar when he was caught first from the

1116
00:50:04,239 --> 00:50:08,858
Australian side when a formally beloved

1117
00:50:06,760 --> 00:50:11,260
actor suddenly became public enemy

1118
00:50:08,858 --> 00:50:13,659
number one and there were hashtags and

1119
00:50:11,260 --> 00:50:16,780
memes and petitions and talk of film

1120
00:50:13,659 --> 00:50:20,710
boycotts fines deportations jail time

1121
00:50:16,780 --> 00:50:23,619
and possibly even euthanasia then in

1122
00:50:20,710 --> 00:50:25,838
response the rest of the world was

1123
00:50:23,619 --> 00:50:28,720
shocked by what they perceived to be a

1124
00:50:25,838 --> 00:50:30,279
ridiculous overreaction because after

1125
00:50:28,719 --> 00:50:32,079
all it was just a couple of pampered

1126
00:50:30,280 --> 00:50:32,619

pets and clearly they're in perfect

1127

00:50:32,079 --> 00:50:34,630
health

1128

00:50:32,619 --> 00:50:37,329
I can understand this point of view and

1129

00:50:34,630 --> 00:50:39,640
I agree that the chances are actually

1130

00:50:37,329 --> 00:50:41,858
fairly slim that these individual dogs

1131

00:50:39,639 --> 00:50:43,779
happen to carry exotic pests and

1132

00:50:41,858 --> 00:50:47,289
diseases that could threaten biosecurity

1133

00:50:43,780 --> 00:50:49,769
in Australia the chance is not zero

1134

00:50:47,289 --> 00:50:52,420
which is why we have quarantine

1135

00:50:49,769 --> 00:50:54,909
Australia is isolated and relatively

1136

00:50:52,420 --> 00:50:56,320
clean we don't have all the pests and

1137

00:50:54,909 --> 00:50:58,960
diseases that are common in some

1138

00:50:56,320 --> 00:51:01,599
countries and we take biosecurity

1139

00:50:58,960 --> 00:51:05,380
seriously because we don't want for

1140

00:51:01,599 --> 00:51:08,019
example rabies this is why we have

1141
00:51:05,380 --> 00:51:10,210
quarantine laws it's not that you can't

1142
00:51:08,019 --> 00:51:12,730
bring your pets here you absolutely can

1143
00:51:10,210 --> 00:51:14,349
you just have to have them checked first

1144
00:51:12,730 --> 00:51:16,150
to make sure that they're not carrying

1145
00:51:14,349 --> 00:51:17,260
anything you are dangerous into the

1146
00:51:16,150 --> 00:51:19,599
country

1147
00:51:17,260 --> 00:51:22,390
so yes the chances of pistol and Boo

1148
00:51:19,599 --> 00:51:24,730
being unknowingly infected and then

1149
00:51:22,389 --> 00:51:27,129
transmitting something like rabies to

1150
00:51:24,730 --> 00:51:30,039
the local population is quite small but

1151
00:51:27,130 --> 00:51:32,710
remember we're completely naive to some

1152
00:51:30,039 --> 00:51:34,900
of these pests and diseases and a single

1153
00:51:32,710 --> 00:51:36,550
animal bringing something in could start

1154
00:51:34,900 --> 00:51:39,130
the next outbreak in our unvaccinated

1155
00:51:36,550 --> 00:51:41,710
and previously unexposed population

1156
00:51:39,130 --> 00:51:43,630
these dogs were born and raised in a

1157
00:51:41,710 --> 00:51:46,150
country that is a known risk for certain

1158
00:51:43,630 --> 00:51:48,309
pests and diseases and while some

1159
00:51:46,150 --> 00:51:53,559
animals are vaccinated the vast majority

1160
00:51:48,309 --> 00:51:55,779
are not let me draw an analogy imagine a

1161
00:51:53,559 --> 00:51:57,730
different celebrity one with a couple of

1162
00:51:55,780 --> 00:51:59,350
children and maybe they leave in nimbin

1163
00:51:57,730 --> 00:52:02,740
or Byron Bay or some other

1164
00:51:59,349 --> 00:52:05,889
anti-vaccination hotspot and maybe their

1165
00:52:02,739 --> 00:52:08,199
kids happen to be unvaccinated they

1166
00:52:05,889 --> 00:52:10,179
might be strong healthy children but

1167
00:52:08,199 --> 00:52:13,179
they pose a certain level of risk just

1168
00:52:10,179 --> 00:52:15,389
by existing unvaccinated in a population

1169

00:52:13,179 --> 00:52:17,739
known to harbor certain diseases

1170
00:52:15,389 --> 00:52:19,179
now imagine that there was a measles

1171
00:52:17,739 --> 00:52:21,429
outbreak at the school that these

1172
00:52:19,179 --> 00:52:22,649
children attend so to protect the lives

1173
00:52:21,429 --> 00:52:25,149
and health of vulnerable people

1174
00:52:22,650 --> 00:52:27,160
quarantine laws were introduced which

1175
00:52:25,150 --> 00:52:29,530
required that anyone coming from no an

1176
00:52:27,159 --> 00:52:32,108
infected areas go through quarantine

1177
00:52:29,530 --> 00:52:33,850
before being allowed to visit the

1178
00:52:32,108 --> 00:52:37,329
leukemia wing at the local Children's

1179
00:52:33,849 --> 00:52:40,210
Hospital in this scenario how would you

1180
00:52:37,329 --> 00:52:42,130
feel about a rich privileged actor just

1181
00:52:40,210 --> 00:52:44,320
bypassing the quarantine system and

1182
00:52:42,130 --> 00:52:46,358
bringing their little vector spawn into

1183
00:52:44,320 --> 00:52:49,210

the hospital for a visit just because

1184

00:52:46,358 --> 00:52:51,099

they wanted to chances are they'll

1185

00:52:49,210 --> 00:52:53,108

probably get away with it because the

1186

00:52:51,099 --> 00:52:56,319

kids are healthy and probably not

1187

00:52:53,108 --> 00:52:57,759

carrying rabies but we have quarantine

1188

00:52:56,320 --> 00:53:00,070

laws in place for a reason and that

1189

00:52:57,760 --> 00:53:02,170

reason is to protect us and our

1190

00:53:00,070 --> 00:53:05,230

environment from infectious diseases and

1191

00:53:02,170 --> 00:53:07,690

pests ignoring quarantine laws like this

1192

00:53:05,230 --> 00:53:10,030

is similar to ignoring medical experts

1193

00:53:07,690 --> 00:53:12,730

on vaccinations it's not a malicious

1194

00:53:10,030 --> 00:53:15,430

action no one does it because they want

1195

00:53:12,730 --> 00:53:16,900

to spread infectious diseases the

1196

00:53:15,429 --> 00:53:18,879

problems arise when people don't

1197

00:53:16,900 --> 00:53:21,760

understand the reason for a rule or a

1198
00:53:18,880 --> 00:53:23,650
recommendation and they assume that if

1199
00:53:21,760 --> 00:53:26,290
they don't understand it it's probably

1200
00:53:23,650 --> 00:53:28,150
not important so in a rich and

1201
00:53:26,289 --> 00:53:30,610
privileged actor failed to understand

1202
00:53:28,150 --> 00:53:32,320
the reasons for our quarantine laws

1203
00:53:30,610 --> 00:53:34,630
he decided that his own assessment of

1204
00:53:32,320 --> 00:53:37,740
the situation was good enough he broke

1205
00:53:34,630 --> 00:53:40,150
the law and threatened our biosecurity

1206
00:53:37,739 --> 00:53:42,159
so next time you encounter a law that

1207
00:53:40,150 --> 00:53:44,680
you don't understand go ahead and

1208
00:53:42,159 --> 00:53:47,379
question it ask what it's for and why

1209
00:53:44,679 --> 00:53:49,629
it's there but don't ignore it based on

1210
00:53:47,380 --> 00:53:51,670
your own lack of understanding because

1211
00:53:49,630 --> 00:53:54,099
chances are that the law was made for a

1212
00:53:51,670 --> 00:53:58,170
reason and what's made with reason

1213
00:53:54,099 --> 00:53:58,170
should never be unmade with assumption

1214
00:53:58,440 --> 00:54:06,409
[Music]

1215
00:54:13,280 --> 00:54:18,510
thank you for listening to the skeptic

1216
00:54:15,809 --> 00:54:20,608
zone now don't forget don't forget later

1217
00:54:18,510 --> 00:54:24,540
on in the year in December we have

1218
00:54:20,608 --> 00:54:27,119
skeptic on 2019 in Melbourne links in

1219
00:54:24,539 --> 00:54:30,059
this week's show notes and so far the

1220
00:54:27,119 --> 00:54:32,340
the big news is that the skeptics guide

1221
00:54:30,059 --> 00:54:34,590
to the universe crew are coming down for

1222
00:54:32,340 --> 00:54:36,269
that as well as susan gerbic from

1223
00:54:34,590 --> 00:54:38,940
guerrilla skepticism with lots more

1224
00:54:36,269 --> 00:54:41,909
special guests and announcements to come

1225
00:54:38,940 --> 00:54:44,369
up in the following months and the link

1226

00:54:41,909 --> 00:54:47,429
is skeptic on.org

1227
00:54:44,369 --> 00:54:49,170
not a you but if you're in northern

1228
00:54:47,429 --> 00:54:51,659
california you don't have to wait that

1229
00:54:49,170 --> 00:54:54,809
long for a fabulous one-day skeptical

1230
00:54:51,659 --> 00:54:56,819
event skeptic owl is Northern

1231
00:54:54,809 --> 00:54:58,590
California's conference on science and

1232
00:54:56,820 --> 00:55:00,660
skepticism a day-long event with

1233
00:54:58,590 --> 00:55:03,930
speakers and discussions on critical

1234
00:55:00,659 --> 00:55:07,230
thinking this year skeptic owl will be

1235
00:55:03,929 --> 00:55:10,579
held on Sunday the 9th of June at the

1236
00:55:07,230 --> 00:55:13,800
Hyatt Regency San Francisco Airport

1237
00:55:10,579 --> 00:55:17,429
registration is now open and you can

1238
00:55:13,800 --> 00:55:20,400
find out more by visiting skeptic Alcon

1239
00:55:17,429 --> 00:55:22,649
that's one word.com and of course there

1240
00:55:20,400 --> 00:55:25,139

will be a link in this week's show notes

1241
00:55:22,650 --> 00:55:28,230
now The Skeptical events coming up later

1242
00:55:25,139 --> 00:55:30,960
on in the year we have Dragon Con in

1243
00:55:28,230 --> 00:55:33,358
Atlanta Georgia I hope to be there to

1244
00:55:30,960 --> 00:55:36,119
take part in The Skeptical track there

1245
00:55:33,358 --> 00:55:39,750
with my good friends Derek Colin dunno

1246
00:55:36,119 --> 00:55:42,809
and dr. Angie Maki and saikhan in Las

1247
00:55:39,750 --> 00:55:46,409
Vegas all these things coming up to see

1248
00:55:42,809 --> 00:55:49,230
out your 2019 and before I go another

1249
00:55:46,409 --> 00:55:52,170
thank you to those people who make the

1250
00:55:49,230 --> 00:55:54,780
skeptic zone possible those people who

1251
00:55:52,170 --> 00:55:58,289
contribute via patreon or PayPal at

1252
00:55:54,780 --> 00:55:59,910
skeptic zone TV five dollars a month is

1253
00:55:58,289 --> 00:56:02,550
something you'll never notice but

1254
00:55:59,909 --> 00:56:04,858
collectively it simply means that the

1255
00:56:02,550 --> 00:56:07,190
skeptical zone podcast can stay in

1256
00:56:04,858 --> 00:56:09,779
production and big thank you to you all

1257
00:56:07,190 --> 00:56:11,909
but for this week this is Richard

1258
00:56:09,780 --> 00:56:13,940
Saunders signing off from Sydney

1259
00:56:11,909 --> 00:56:13,940
Australia

1260
00:56:16,159 --> 00:56:21,589
you've been listening to the skeptical

1261
00:56:18,690 --> 00:56:28,289
zone podcast please visit our website at

1262
00:56:21,590 --> 00:56:31,789
wwlp.com tax and to access the bat

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00:56:28,289 --> 00:56:34,440
catalog of episodes going back to 2008

1264
00:56:31,789 --> 00:56:37,710
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facebook page or leave a review on

1267
00:56:40,019 --> 00:56:43,590
itunes

1268
00:56:40,909 --> 00:56:46,980
you can also support the skeptical zone

1269
00:56:43,590 --> 00:56:49,700
via patreon or paypal the skeptic zone

1270
00:56:46,980 --> 00:56:52,079
podcast is an independent production

1271
00:56:49,699 --> 00:56:54,210
reviews and opinions expressed on the

1272
00:56:52,079 --> 00:56:56,549
skeptic zone are not necessarily those

1273
00:56:54,210 --> 00:56:58,389
of Australian skeptics or any other

1274
00:56:56,550 --> 00:57:04,850
skeptical organization

1275
00:56:58,389 --> 00:57:04,849
[Music]

1276
00:57:07,858 --> 00:57:17,288
yeah I'll do so after a slurp of coffee

1277
00:57:11,228 --> 00:57:20,248
oh whoa there's too much blood in my

1278
00:57:17,289 --> 00:57:20,249
caffeine system