



Episode **551**

THE SKEPTIC ZONE PODCAST

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21 May 2019

The Skeptic Zone Podcast



Jessica Singer & Dr Brad

Episode **551** - 12 May 2019



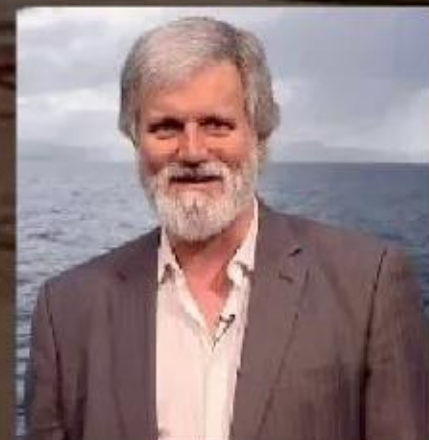
Dr Karl talks Flat Earth
and Anti-Vax

Australian Skeptics
fight the Flu

Pint of Science

Dino Documentaries

Quarantine for Pets



1
00:00:00,000 --> 00:00:05,950

[Music]

2
00:00:11,870 --> 00:00:09,110

welcome to the skeptic zone the podcast

3
00:00:13,920 --> 00:00:11,880

from Australia for science and reason

4
00:00:16,910 --> 00:00:13,930

[Music]

5
00:00:22,990 --> 00:00:16,920

[Applause]

6
00:00:25,640 --> 00:00:23,000

[Music]

7
00:00:29,839 --> 00:00:25,650

yes it's the skeptic zone podcast

8
00:00:32,869 --> 00:00:29,849

episode number 551 for the 12th of May

9
00:00:36,170 --> 00:00:32,879

2019 richardsaunders here with you from

10
00:00:38,420 --> 00:00:36,180

Sydney Australia winter is coming

11
00:00:41,210 --> 00:00:38,430

I think I heard that on some TV show

12
00:00:44,090 --> 00:00:41,220

somewhere the days are getting cooler

13
00:00:47,030 --> 00:00:44,100

here in Sydney and that's the skeptic

14

00:00:48,590 --> 00:00:47,040

zone weather forecast for today if you

15

00:00:51,139 --> 00:00:48,600

want the weather forecast in your local

16

00:00:53,180 --> 00:00:51,149

area there's always the Internet

17

00:00:55,610 --> 00:00:53,190

coming up on this week's show I catch up

18

00:00:57,920 --> 00:00:55,620

with Professor Paul Willis the

19

00:01:00,020 --> 00:00:57,930

well-known paleontologist Paul's gonna

20

00:01:03,010 --> 00:01:00,030

talk about his new venture his new

21

00:01:06,139 --> 00:01:03,020

project his new undertaking paleo

22

00:01:10,010 --> 00:01:06,149

pictures this is where he's going to be

23

00:01:13,790 --> 00:01:10,020

producing documentaries regarding and

24

00:01:17,749 --> 00:01:13,800

revolving concerning dinosaurs including

25

00:01:20,870 --> 00:01:17,759

the very interesting the mystery in the

26

00:01:23,330 --> 00:01:20,880

dinosaurs belly and if you ever want to

27

00:01:26,179 --> 00:01:23,340

be involved in helping to produce a

28

00:01:29,210 --> 00:01:26,189

scientific documentary here's your

29

00:01:31,039 --> 00:01:29,220

chance find out more with Professor Paul

30

00:01:34,249 --> 00:01:31,049

Willis coming up at the top of the show

31

00:01:36,560 --> 00:01:34,259

after that I run after dr. Cal Cruz on

32

00:01:38,660 --> 00:01:36,570

whiskey and I mean I run after dr.

33

00:01:41,960 --> 00:01:38,670

callicles and Hiskey we do an interview

34

00:01:44,929 --> 00:01:41,970

in the street in the actual street and

35

00:01:47,780 --> 00:01:44,939

on a bus karl is a very busy man and I

36

00:01:50,240 --> 00:01:47,790

had the pleasure of being with dr. Karl

37

00:01:52,929 --> 00:01:50,250

a couple of days ago when he did some

38

00:01:56,090 --> 00:01:52,939

radio segments around Australia and

39

00:01:58,160 --> 00:01:56,100

afterwards in the brief time we had

40

00:02:01,510 --> 00:01:58,170

available I interview call about the

41

00:02:03,889 --> 00:02:01,520

flat earth and the impact of

42

00:02:06,920 --> 00:02:03,899

anti-vaxxers and speaking of

43

00:02:09,759 --> 00:02:06,930

anti-vaxxers or VAX is in this case my

44

00:02:12,620 --> 00:02:09,769

report from the Australian skeptics flu

45

00:02:15,650 --> 00:02:12,630

vaccination clinic in Sydney held just

46

00:02:18,949 --> 00:02:15,660

last week in fact on the 4th of May Star

47

00:02:21,080 --> 00:02:18,959

Wars day interviews and reactions but

48

00:02:22,509 --> 00:02:21,090

not bad reactions I didn't I had a flu

49

00:02:24,470 --> 00:02:22,519

shot

50

00:02:27,890 --> 00:02:24,480

mom's doing pretty well

51
00:02:30,920 --> 00:02:27,900
no bad reactions now this includes the

52
00:02:33,640 --> 00:02:30,930
first episode of a new web series called

53
00:02:37,940 --> 00:02:33,650
to underscore me underscore Oz Ozzie

54
00:02:42,140 --> 00:02:37,950
with Trish Han then I chat to Tom and

55
00:02:44,330 --> 00:02:42,150
jarana from the pint of science in

56
00:02:46,910 --> 00:02:44,340
Australia they are they are the national

57
00:02:49,490 --> 00:02:46,920
directors pint of science Australia runs

58
00:02:51,259 --> 00:02:49,500
events to bring researchers across all

59
00:02:53,899 --> 00:02:51,269
fields of science technology engineering

60
00:02:56,089 --> 00:02:53,909
mathematics and medicine to share their

61
00:02:58,970 --> 00:02:56,099
recent discoveries with the local

62
00:03:02,179 --> 00:02:58,980
community this is done in the pub coming

63
00:03:05,089 --> 00:03:02,189

up very soon later this month across

64

00:03:07,910 --> 00:03:05,099

Australia you can attend a pint of

65

00:03:10,759 --> 00:03:07,920

science event find out more coming up

66

00:03:13,759 --> 00:03:10,769

later on in the show then the run of the

67

00:03:16,160 --> 00:03:13,769

show life is wild life is very wild with

68

00:03:18,530 --> 00:03:16,170

our reporter Michelle Franklin and she's

69

00:03:22,610 --> 00:03:18,540

going to be discussing the importance of

70

00:03:26,149 --> 00:03:22,620

biosecurity and why we have quarantine

71

00:03:29,750 --> 00:03:26,159

especially for pets and especially for

72

00:03:32,089 --> 00:03:29,760

pets of certain well-known actors who

73

00:03:34,009 --> 00:03:32,099

sort of fly into the country on their

74

00:03:36,619 --> 00:03:34,019

private jets and bring their private

75

00:03:38,210 --> 00:03:36,629

dogs and wonder where those private cats

76

00:03:39,949 --> 00:03:38,220

are they're around here somewhere

77

00:03:41,479 --> 00:03:39,959

I think the skeptic zone cats are

78

00:03:44,270 --> 00:03:41,489

downstairs waiting for their breakfast

79

00:03:46,369 --> 00:03:44,280

so while I run downstairs and give the

80

00:03:55,320 --> 00:03:46,379

cats their breakfast I hope you enjoy

81

00:03:55,330 --> 00:04:15,500

a piece of his mind

82

00:04:15,510 --> 00:04:20,990

with Professor Paul Willis

83

00:04:30,500 --> 00:04:26,450

[Music]

84

00:04:34,050 --> 00:04:30,510

and joining me on the line it is indeed

85

00:04:37,140 --> 00:04:34,060

associate and junk professor dr. Paul

86

00:04:39,480 --> 00:04:37,150

Willis hello Paul how are you Richard

87

00:04:41,280 --> 00:04:39,490

I'm very well and as we were just

88

00:04:44,880 --> 00:04:41,290

discussing before I'm not quite as

89

00:04:47,150 --> 00:04:44,890

hirsute as you are these days no this is

90

00:04:49,710 --> 00:04:47,160

probably the unfortunate side effect of

91

00:04:52,980 --> 00:04:49,720

losing the last influence in your life

92

00:04:55,620 --> 00:04:52,990

to say no I am now probably my own worst

93

00:05:00,780 --> 00:04:55,630

enemy when it comes to my fashion sense

94

00:05:01,050 --> 00:05:00,790

growing I might as well enjoy it while I

95

00:05:03,030 --> 00:05:01,060

can

96

00:05:06,560 --> 00:05:03,040

well you're looking the part of an

97

00:05:11,160 --> 00:05:06,570

eccentric professor I'll put it that way

98

00:05:12,990 --> 00:05:11,170

and apart from anything else how's your

99

00:05:14,880 --> 00:05:13,000

battles going with things like you know

100

00:05:15,720 --> 00:05:14,890

the old favorites like the creationists

101
00:05:18,030 --> 00:05:15,730
and all that sort of stuff

102
00:05:20,730 --> 00:05:18,040
yeah the creationists have been a bit

103
00:05:23,130 --> 00:05:20,740
quiet of like hmm you know I haven't

104
00:05:26,780 --> 00:05:23,140
seen much going on there what I'm more

105
00:05:30,360 --> 00:05:26,790
active in is through the National

106
00:05:33,720 --> 00:05:30,370
Secular Lobby campaigning against things

107
00:05:37,980 --> 00:05:33,730
like chaplains in schools and against

108
00:05:41,790 --> 00:05:37,990
this push from the various religious and

109
00:05:43,380 --> 00:05:41,800
lobbies to have religious freedoms which

110
00:05:46,110 --> 00:05:43,390
actually when you sit down and look at

111
00:05:47,550 --> 00:05:46,120
it it's code words for permission to

112
00:05:50,970 --> 00:05:47,560
break the law

113
00:05:55,290 --> 00:05:50,980

yeah and in a secular society that's

114

00:05:57,360 --> 00:05:55,300

just not on so I'm doing much more

115

00:06:01,020 --> 00:05:57,370

active in that area these days than in

116

00:06:02,430 --> 00:06:01,030

creationism but look if a creationist

117

00:06:04,530 --> 00:06:02,440

pops his head up I'd be only too happy

118

00:06:06,210 --> 00:06:04,540

to give it a kick I'm sure you would be

119

00:06:07,880 --> 00:06:06,220

but it does sort of tie in a little bit

120

00:06:12,140 --> 00:06:07,890

about why I wanted to talk to you today

121

00:06:14,970 --> 00:06:12,150

because you have a new venture a new

122

00:06:17,130 --> 00:06:14,980

undertaking going on which really sort

123

00:06:19,920 --> 00:06:17,140

of ties in with creationism a bit on at

124

00:06:21,980 --> 00:06:19,930

least on the fringe please please tell

125

00:06:24,900 --> 00:06:21,990

us tell us all about it

126

00:06:26,840 --> 00:06:24,910

well really it starts from the

127

00:06:31,409 --> 00:06:26,850

proposition of you know got back into

128

00:06:34,860 --> 00:06:31,419

paleontology research-wise most of my

129

00:06:37,230 --> 00:06:34,870

time at the AVC and when i was director

130

00:06:38,790 --> 00:06:37,240

at the Royal Institution I simply didn't

131

00:06:42,629 --> 00:06:38,800

have the time to devote

132

00:06:45,659 --> 00:06:42,639

to research paleontology which was my

133

00:06:48,719 --> 00:06:45,669

first career but then when Flinders

134

00:06:51,089 --> 00:06:48,729

University made me adjunct in

135

00:06:54,659 --> 00:06:51,099

paleontology there's an associate

136

00:06:56,939 --> 00:06:54,669

professor I thought well you know that's

137

00:06:59,700 --> 00:06:56,949

good I can go and get some money in and

138

00:07:01,740 --> 00:06:59,710

do some research and getting money for

139

00:07:04,619 --> 00:07:01,750

paleontological research is really

140

00:07:06,899 --> 00:07:04,629

difficult yeah I mean science funding in

141

00:07:10,439 --> 00:07:06,909

general from research funding in

142

00:07:13,230 --> 00:07:10,449

Australia is pretty bad but then when it

143

00:07:17,040 --> 00:07:13,240

comes to the common pools of money for

144

00:07:19,230 --> 00:07:17,050

science research the paleontology is

145

00:07:21,360 --> 00:07:19,240

kind of the Cinderella of the sciences

146

00:07:24,540 --> 00:07:21,370

when it comes to funding you know it's

147

00:07:28,020 --> 00:07:24,550

the good-looking little sister who's

148

00:07:29,939 --> 00:07:28,030

lost away in the scullery and doesn't

149

00:07:35,059 --> 00:07:29,949

tend to get much in the way of funding

150

00:07:40,770 --> 00:07:35,069

compared to the more stellar and more

151

00:07:43,110 --> 00:07:40,780

sexy areas of science that you know in

152

00:07:46,339 --> 00:07:43,120

this day and age that can be turned into

153

00:07:50,760 --> 00:07:46,349

a product in in three years

154

00:07:52,830 --> 00:07:50,770

so I was casting around for ideas of how

155

00:07:56,879 --> 00:07:52,840

I could generate money to do some

156

00:08:00,120 --> 00:07:56,889

research and a friend pointed out to me

157

00:08:02,189 --> 00:08:00,130

that well I've got all these skills in

158

00:08:05,629 --> 00:08:02,199

being able to make documentaries yeah

159

00:08:09,959 --> 00:08:05,639

why don't I make documentaries about

160

00:08:12,839 --> 00:08:09,969

about paleontology and use that money

161

00:08:15,300 --> 00:08:12,849

and the profits from that to fund my

162

00:08:17,519 --> 00:08:15,310

paleontological research hmm and I

163

00:08:20,510 --> 00:08:17,529

thought actually I could go one better

164

00:08:23,249 --> 00:08:20,520

than that I could actually make

165

00:08:26,600 --> 00:08:23,259

documentaries about the research I'm

166

00:08:31,230 --> 00:08:26,610

doing as it's actually happening hmm and

167

00:08:32,909 --> 00:08:31,240

the advantage in that is that really

168

00:08:36,630 --> 00:08:32,919

you're not supposed to talk about your

169

00:08:40,620 --> 00:08:36,640

research in public until the day that

170

00:08:43,889 --> 00:08:40,630

the paper is published so that you don't

171

00:08:45,960 --> 00:08:43,899

what they say jeopardize peer review you

172

00:08:48,780 --> 00:08:45,970

know if you've gone out and talked about

173

00:08:50,880 --> 00:08:48,790

your research in any great detail ahead

174

00:08:52,780 --> 00:08:50,890

of publication there's good chance that

175

00:08:58,480 --> 00:08:52,790

that publication won't actually

176

00:09:01,420 --> 00:08:58,490

and bull runs so what about is while I'm

177

00:09:04,120 --> 00:09:01,430

doing the research I'm also making a

178

00:09:07,660 --> 00:09:04,130

documentary so that on the day of

179

00:09:12,070 --> 00:09:07,670

publication of the paper you've got a

180

00:09:15,250 --> 00:09:12,080

documentary they're ready to go and so

181

00:09:19,750 --> 00:09:15,260

you can release that on the day that the

182

00:09:21,700 --> 00:09:19,760

the the research is released just to

183

00:09:25,000 --> 00:09:21,710

give you a quick example yeah you might

184

00:09:30,220 --> 00:09:25,010

have seen last week in nature there was

185

00:09:31,600 --> 00:09:30,230

a a second specimen of a den so vien was

186

00:09:35,170 --> 00:09:31,610

found who I missed that one

187

00:09:38,650 --> 00:09:35,180

go on you know this is huge news it made

188

00:09:40,360 --> 00:09:38,660

global headlines because it's for really

189

00:09:42,790 --> 00:09:40,370

important stories you're not going to

190

00:09:44,350 --> 00:09:42,800

see that piece of research included in a

191

00:09:45,510 --> 00:09:44,360

documentary for at least six months

192

00:09:48,430 --> 00:09:45,520

right

193

00:09:50,980 --> 00:09:48,440

imagine if the researchers who were

194

00:09:52,960 --> 00:09:50,990

doing the actual research had been

195

00:09:55,240 --> 00:09:52,970

putting together a documentary so that

196

00:09:57,670 --> 00:09:55,250

last week when they announced the

197

00:10:00,730 --> 00:09:57,680

research they could release the

198

00:10:04,270 --> 00:10:00,740

documentary so that people could you

199

00:10:05,980 --> 00:10:04,280

know who weren't necessarily geniuses

200

00:10:08,890 --> 00:10:05,990

when it came to reading the literature

201
00:10:10,480 --> 00:10:08,900
they could just sit at home and watch a

202
00:10:13,240 --> 00:10:10,490
documentary and find out what it was all

203
00:10:14,710 --> 00:10:13,250
about which is a lot more I don't want

204
00:10:16,480 --> 00:10:14,720
to use the word palatable that's the

205
00:10:19,230 --> 00:10:16,490
wrong word it's a lot more easy to

206
00:10:22,210 --> 00:10:19,240
digest to the vast weather population

207
00:10:25,090 --> 00:10:22,220
exactly it's it's about pitching the

208
00:10:26,920 --> 00:10:25,100
story and not running it down you know

209
00:10:30,670 --> 00:10:26,930
you want to pitch it to a general

210
00:10:32,140 --> 00:10:30,680
audience so that so that everyone can

211
00:10:34,750 --> 00:10:32,150
understand what it is that you've done

212
00:10:36,280 --> 00:10:34,760
well it's exciting too because I you

213
00:10:38,140 --> 00:10:36,290

know I love these sort of documentaries

214

00:10:40,810 --> 00:10:38,150

especially when you see paleontologists

215

00:10:43,330 --> 00:10:40,820

out in the field digging away under the

216

00:10:45,790 --> 00:10:43,340

rock in the ice or whatever it is and lo

217

00:10:47,920 --> 00:10:45,800

and behold after much effort something

218

00:10:49,660 --> 00:10:47,930

appears it's like it's like a treasure

219

00:10:52,960 --> 00:10:49,670

hunting in a sort of way and that could

220

00:10:56,050 --> 00:10:52,970

be very entertaining and engaging well

221

00:11:00,790 --> 00:10:56,060

yeah and and this is again and another

222

00:11:02,410 --> 00:11:00,800

unique feature of paleo pictures because

223

00:11:04,720 --> 00:11:02,420

of the combination of skills that I've

224

00:11:06,580 --> 00:11:04,730

got not only as a paleontologist but

225

00:11:10,930 --> 00:11:06,590

also as a documentary maker

226

00:11:15,670 --> 00:11:10,940

I can actually film and do the whole

227

00:11:18,400 --> 00:11:15,680

documentary side of things by myself now

228

00:11:21,519 --> 00:11:18,410

normally when you send a documentary

229

00:11:23,769 --> 00:11:21,529

crew out to cover an excavation that's

230

00:11:25,900 --> 00:11:23,779

one of the most expensive parts of the

231

00:11:28,390 --> 00:11:25,910

whole production because you got to send

232

00:11:32,470 --> 00:11:28,400

at least two and quite often three or

233

00:11:35,010 --> 00:11:32,480

four people out to remote locations in

234

00:11:37,510 --> 00:11:35,020

order to cover that particular dig

235

00:11:37,990 --> 00:11:37,520

whereas I just need to go out there by

236

00:11:42,160 --> 00:11:38,000

myself

237

00:11:45,460 --> 00:11:42,170

yeah so the costs come down I can spend

238

00:11:47,380 --> 00:11:45,470

longer on site yeah so I can really get

239

00:11:50,050 --> 00:11:47,390

into what have you found what's

240

00:11:52,269 --> 00:11:50,060

happening okay so you know this is the

241

00:11:55,329 --> 00:11:52,279

bone that we saw on day one and it's now

242

00:11:57,519 --> 00:11:55,339

day ten look at what's emerge from the

243

00:11:59,200 --> 00:11:57,529

ground you know and we can go into the

244

00:12:03,100 --> 00:11:59,210

laboratories and see the preparation

245

00:12:05,440 --> 00:12:03,110

which takes ages in order to to release

246

00:12:08,620 --> 00:12:05,450

a fossil from the rocks and prepare it

247

00:12:11,350 --> 00:12:08,630

for display and study we can go into the

248

00:12:14,530 --> 00:12:11,360

study itself go into the offices of the

249

00:12:15,940 --> 00:12:14,540

of the paleontologists and follow what

250

00:12:19,240 --> 00:12:15,950

they're doing looking over their

251

00:12:21,160 --> 00:12:19,250

shoulder and that's I don't think that

252

00:12:24,910 --> 00:12:21,170

there's anybody else out there who's

253

00:12:26,920 --> 00:12:24,920

who's using that combination of talents

254

00:12:29,050 --> 00:12:26,930

in that way I think it's a terrific idea

255

00:12:32,380 --> 00:12:29,060

and I and it's it's an exciting idea

256

00:12:34,480 --> 00:12:32,390

it's new and you're absolutely right

257

00:12:37,840 --> 00:12:34,490

these days of course you can be a

258

00:12:39,700 --> 00:12:37,850

one-man one-man band so to speak you can

259

00:12:43,720 --> 00:12:39,710

be your own cameraman sound recorders

260

00:12:46,150 --> 00:12:43,730

producer and talent indeed and while I

261

00:12:47,220 --> 00:12:46,160

was the ABC I was being trained to do

262

00:12:50,350 --> 00:12:47,230

exactly that

263

00:12:54,340 --> 00:12:50,360

and a number of stories that I've

264

00:12:56,920 --> 00:12:54,350

produced for catalyst towards the end of

265

00:12:59,260 --> 00:12:56,930

my time there I was the sole person

266

00:13:00,579 --> 00:12:59,270

actually out there shooting and that was

267

00:13:03,220 --> 00:13:00,589

quite often because it was remote

268

00:13:04,960 --> 00:13:03,230

locations like Antarctica you know the

269

00:13:07,840 --> 00:13:04,970

cost of sending a whole crew down to

270

00:13:09,670 --> 00:13:07,850

Antarctica is astronomical but just in

271

00:13:12,820 --> 00:13:09,680

one person down there is a reporter

272

00:13:16,000 --> 00:13:12,830

camera sound you know that's that's a

273

00:13:19,240 --> 00:13:16,010

huge budget saving yes and yes and yes

274

00:13:21,400 --> 00:13:19,250

to the whole idea of you know because of

275

00:13:25,059 --> 00:13:21,410

modern equipment

276

00:13:27,789 --> 00:13:25,069

it's so much easier for one person to go

277

00:13:30,309 --> 00:13:27,799

out and record documentary material and

278

00:13:32,970 --> 00:13:30,319

broadcast quality documentary material

279

00:13:37,150 --> 00:13:32,980

at that I'm shooting on an iPhone 10 and

280

00:13:39,729 --> 00:13:37,160

that is more than good enough to put

281

00:13:44,879 --> 00:13:39,739

onto the market as documentary footage

282

00:13:47,379 --> 00:13:44,889

yeah fat but I am actually in a very

283

00:13:49,569 --> 00:13:47,389

lucky position here with our first

284

00:13:54,609 --> 00:13:49,579

documentary which were already halfway

285

00:13:57,879 --> 00:13:54,619

through putting together in that it

286

00:14:04,739 --> 00:13:57,889

concerns some specimens that I picked up

287

00:14:07,239 --> 00:14:04,749

in the field in 1991 and back then I was

288

00:14:10,900 --> 00:14:07,249

that was long before I got involved with

289

00:14:12,939 --> 00:14:10,910

the ABC back then I was ahead of the

290

00:14:15,789 --> 00:14:12,949

curve as a paleontologist and I was

291

00:14:18,429 --> 00:14:15,799

taking a video camera into the field and

292

00:14:21,069 --> 00:14:18,439

instead of taking detailed field notes I

293

00:14:25,569 --> 00:14:21,079

was videotaping everything so I've

294

00:14:27,999 --> 00:14:25,579

actually got videotape of me in the

295

00:14:31,319 --> 00:14:28,009

field picking up the specimen that the

296

00:14:35,859 --> 00:14:31,329

research that I'm doing on now is is

297

00:14:40,210 --> 00:14:35,869

I've got it all on tape you know so

298

00:14:43,689 --> 00:14:40,220

there's this long continuity of footage

299

00:14:45,960 --> 00:14:43,699

for this particular documentary because

300

00:14:48,819 --> 00:14:45,970

way back then when I was a younger lad

301
00:14:52,059 --> 00:14:48,829
I'd bothered to take a video camera into

302
00:14:55,389 --> 00:14:52,069
the field folks it sounds like a very

303
00:14:57,460 --> 00:14:55,399
exciting proposition from I'll just

304
00:14:58,989 --> 00:14:57,470
shorten it to Professor Paul Wilson it's

305
00:15:01,989 --> 00:14:58,999
much less of a mouthful than all the

306
00:15:08,009 --> 00:15:01,999
other titles you have now how can people

307
00:15:12,429 --> 00:15:08,019
become involved look we've got a website

308
00:15:15,489 --> 00:15:12,439
Palio pictures calm we've got Facebook

309
00:15:19,359 --> 00:15:15,499
Twitter and Instagram feeds and a

310
00:15:21,970 --> 00:15:19,369
YouTube site where you can have a look

311
00:15:26,919 --> 00:15:21,980
at a trailer for the documentary that

312
00:15:29,259 --> 00:15:26,929
we're currently working on and if you go

313
00:15:32,139 --> 00:15:29,269

to the site and you want to contribute

314

00:15:34,030 --> 00:15:32,149

we've got a GoFundMe campaign up and

315

00:15:37,360 --> 00:15:34,040

running at the moment to just

316

00:15:40,750 --> 00:15:37,370

in initial working capital and there is

317

00:15:42,550 --> 00:15:40,760

also an opportunity for investors if if

318

00:15:45,240 --> 00:15:42,560

you think that it's such a good cause

319

00:15:48,520 --> 00:15:45,250

that you want to put some money up and

320

00:15:51,910 --> 00:15:48,530

buy some shares in paleo pictures it's

321

00:15:54,790 --> 00:15:51,920

all there on the website and and if I

322

00:15:58,780 --> 00:15:54,800

can just give a shout out yeah because

323

00:16:01,720 --> 00:15:58,790

it's members of the skeptic community

324

00:16:04,600 --> 00:16:01,730

that have come forward so far and bought

325

00:16:06,910 --> 00:16:04,610

shares in paleo pictures and a huge

326

00:16:07,330 --> 00:16:06,920

thanks to those people you know who you

327

00:16:10,120 --> 00:16:07,340

are

328

00:16:13,570 --> 00:16:10,130

you've got us up and running now folks

329

00:16:19,990 --> 00:16:13,580

the URL of course is paleo pictures calm

330

00:16:22,390 --> 00:16:20,000

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

331

00:16:24,850 --> 00:16:22,400

from paleontology all the information is

332

00:16:26,620 --> 00:16:24,860

there there are links and you can see a

333

00:16:28,810 --> 00:16:26,630

teaser trailer there

334

00:16:31,900 --> 00:16:28,820

well Paul all the best with this

335

00:16:33,580 --> 00:16:31,910

undertaking we're going to catch up down

336

00:16:35,470 --> 00:16:33,590

the track to see how it's all going but

337

00:16:37,210 --> 00:16:35,480

folks if you want to be involved in

338

00:16:39,220 --> 00:16:37,220

science if you want to help a scientist

339

00:16:41,560 --> 00:16:39,230

to communicate science and if you're

340

00:16:43,990 --> 00:16:41,570

interested in paleontology that's the

341

00:16:46,720 --> 00:16:44,000

link for you well Paul Willis all the

342

00:16:49,180 --> 00:16:46,730

way over there in beautiful Adelaide in

343

00:16:51,490 --> 00:16:49,190

South Australia next time you go to the

344

00:16:53,650 --> 00:16:51,500

Antarctic I keep begging I keep begging

345

00:16:56,620 --> 00:16:53,660

that you take me as your Batman or your

346

00:16:59,470 --> 00:16:56,630

whatever I don't care let me know

347

00:17:01,510 --> 00:16:59,480

but for now thanks very much always a

348

00:17:03,820 --> 00:17:01,520

pleasure Richard and looking forward to

349

00:17:06,640 --> 00:17:03,830

catching up when we do go to publish

350

00:17:10,160 --> 00:17:06,650

this this research at the moment I think

351

00:17:16,040 --> 00:17:10,170

you have been most interested

352

00:17:22,250 --> 00:17:19,320

100 million years ago a dinosaur died

353

00:17:25,320 --> 00:17:22,260

and it's carcass was washed out to sea

354

00:17:28,080 --> 00:17:25,330

deep in its belly it carried a mystery

355

00:17:32,120 --> 00:17:28,090

that would take 21st century technology

356

00:17:34,950 --> 00:17:32,130

to solve the mystery was picked up in

357

00:17:37,380 --> 00:17:34,960

1991 when paleontologist and science

358

00:17:40,140 --> 00:17:37,390

reporter Paul Willis that's me

359

00:17:43,860 --> 00:17:40,150

found inexplicable holes in the matter

360

00:17:47,000 --> 00:17:43,870

barosaurus skeleton 25 years later and

361

00:17:50,670 --> 00:17:47,010

finally I came up with an identification

362

00:17:54,060 --> 00:17:50,680

okay I know what you're thinking how

363

00:17:56,040 --> 00:17:54,070

could a paleontologist have sitting

364

00:17:58,740 --> 00:17:56,050

under his nose for the best part of

365

00:18:01,260 --> 00:17:58,750

quarter of a century and not know what

366

00:18:03,660 --> 00:18:01,270

they were that is a good question

367

00:18:05,640 --> 00:18:03,670

we can't reveal what we found at the

368

00:18:08,790 --> 00:18:05,650

moment because the research is still

369

00:18:11,310 --> 00:18:08,800

ongoing but these fossils are a first

370

00:18:16,530 --> 00:18:11,320

for Australia and are unique in the

371

00:18:18,540 --> 00:18:16,540

world this is really exciting there are

372

00:18:22,500 --> 00:18:18,550

many more surprises revealed by this

373

00:18:24,960 --> 00:18:22,510

ongoing study the problem is these

374

00:18:27,460 --> 00:18:24,970

fossils are unlike any other fossils

375

00:18:30,490 --> 00:18:27,470

seen before

376

00:18:33,149 --> 00:18:30,500

in the mystery in the dinosaurs belly we

377

00:18:36,009 --> 00:18:33,159

present a new deal in documentary making

378

00:18:38,649 --> 00:18:36,019

the story is told by the scientists

379

00:18:41,440 --> 00:18:38,659

doing the research as the research is

380

00:18:43,480 --> 00:18:41,450

actually happening can I make my case

381

00:18:46,570 --> 00:18:43,490

and convince sceptical colleagues that I

382

00:18:49,360 --> 00:18:46,580

have the most extraordinary fossils ever

383

00:18:52,049 --> 00:18:49,370

recovered from Australia it's a real

384

00:18:54,850 --> 00:18:52,059

mystery great to find out what it is

385

00:18:56,810 --> 00:18:54,860

find out in the mystery in the

386

00:19:12,830 --> 00:18:56,820

dinosaur's belly

387

00:19:19,159 --> 00:19:16,810

I've been using these e-bikes lately

388

00:19:20,810 --> 00:19:19,169

they're like they're good they give you

389

00:19:24,860 --> 00:19:20,820

an assist they don't do the pedaling for

390

00:19:27,590 --> 00:19:24,870

you they assist you not significantly

391

00:19:34,480 --> 00:19:27,600

but enough to help ya so you go with it

392

00:19:37,630 --> 00:19:36,520

so we can do a quick interview on the

393

00:19:40,960 --> 00:19:37,640

run that might be fun

394

00:19:42,700 --> 00:19:40,970

we're approaching the bus interchange

395

00:19:45,070 --> 00:19:42,710

here it's sitting on with dr. Karl hello

396

00:19:46,950 --> 00:19:45,080

dr. Karl how are you today dr. Richard

397

00:19:48,880 --> 00:19:46,960

very very well I just had an enjoyable

398

00:19:50,860 --> 00:19:48,890

morning with you sitting in on your

399

00:19:53,590 --> 00:19:50,870

radio sessions a couple of questions I

400

00:19:56,890 --> 00:19:53,600

wanted to ask you in your opinion there

401
00:19:58,090 --> 00:19:56,900
are two things that seem to be making an

402
00:20:00,730 --> 00:19:58,100
impact on the world

403
00:20:03,130 --> 00:20:00,740
much to our chagrin the first one is a

404
00:20:06,580 --> 00:20:03,140
bit frivolous you might think but it's

405
00:20:09,460 --> 00:20:06,590
there the growing popularity of the Flat

406
00:20:11,830 --> 00:20:09,470
Earth conspiracy and it is more and more

407
00:20:13,600 --> 00:20:11,840
people younger people I guess are

408
00:20:15,370 --> 00:20:13,610
starting to think the earth is really

409
00:20:18,340 --> 00:20:15,380
flat have you got any idea why this

410
00:20:19,840 --> 00:20:18,350
might be happening speaking from a

411
00:20:21,520 --> 00:20:19,850
scientific point of view and knowing the

412
00:20:24,760 --> 00:20:21,530
historical background to this story

413
00:20:27,970 --> 00:20:24,770

the answer is no the origin of this myth

414

00:20:33,490 --> 00:20:27,980

goes back to the mid 1800s when writers

415

00:20:35,140 --> 00:20:33,500

in both the USA and in France to point

416

00:20:37,990 --> 00:20:35,150

out how wonderful we humans were

417

00:20:40,570 --> 00:20:38,000

Dandridge 1500 m in 1800 and how we had

418

00:20:42,280 --> 00:20:40,580

conquered the world then say we are so

419

00:20:44,530 --> 00:20:42,290

wonderful and in fact we've gone so far

420

00:20:46,450 --> 00:20:44,540

ahead of our predecessors and they threw

421

00:20:48,340 --> 00:20:46,460

in the magic phrase who thought that the

422

00:20:50,890 --> 00:20:48,350

earth was flat yeah in fact this is

423

00:20:52,930 --> 00:20:50,900

completely wrong Aristophanes knew the

424

00:20:54,970 --> 00:20:52,940

earth was round 2,000 years ago and he

425

00:20:57,190 --> 00:20:54,980

actually measured the diameter of the

426
00:20:58,450 --> 00:20:57,200
earth thank you to within 10% so it was

427
00:21:00,850 --> 00:20:58,460
well known above anybody who was a

428
00:21:03,910 --> 00:21:00,860
sailor as well they knew that the earth

429
00:21:07,120 --> 00:21:03,920
was curved but this myth was invented in

430
00:21:09,250 --> 00:21:07,130
the 1850s to show how we humans have

431
00:21:11,260 --> 00:21:09,260
progressed and in some how and this

432
00:21:12,910 --> 00:21:11,270
befuddles me totally it has come back

433
00:21:14,730 --> 00:21:12,920
into the common realm and I do not know

434
00:21:17,120 --> 00:21:14,740
why what's your theory

435
00:21:19,980 --> 00:21:17,130
might think it's partly this

436
00:21:22,440 --> 00:21:19,990
conspiratorial thinking is the internet

437
00:21:24,330 --> 00:21:22,450
largely responsible for it I were just

438
00:21:26,940 --> 00:21:24,340

walking up to a bus now you know we can

439

00:21:29,220 --> 00:21:26,950

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

440

00:21:33,390 --> 00:21:29,230

okay yeah yeah we can keep going yeah

441

00:21:35,430 --> 00:21:33,400

anyway and it is the same sort of

442

00:21:37,650 --> 00:21:35,440

thinking that is behind a lot of

443

00:21:39,240 --> 00:21:37,660

conspiracy theories like chemtrails and

444

00:21:42,570 --> 00:21:39,250

Andy vaccinations and that stuff people

445

00:21:44,400 --> 00:21:42,580

just jump on board it's a simple message

446

00:21:46,440 --> 00:21:44,410

the earth is fact that you've been lied

447

00:21:48,810 --> 00:21:46,450

to all this time is that part of the

448

00:21:50,640 --> 00:21:48,820

whole wellness conspiracy theory hang on

449

00:21:55,590 --> 00:21:50,650

yeah we're just sitting on the bus now

450

00:21:58,340 --> 00:21:55,600

is interviewing on the run there goes my

451
00:22:01,880 --> 00:22:00,799
registered okay we're back here welcome

452
00:22:04,010 --> 00:22:01,890
welcome to my office

453
00:22:08,720 --> 00:22:04,020
so as part of the illness conspiracy

454
00:22:10,520 --> 00:22:08,730
theory where the wellness guru gives you

455
00:22:13,700 --> 00:22:10,530
secret knowledge that Western medicine

456
00:22:16,370 --> 00:22:13,710
is covering us yes so you are now part

457
00:22:18,049 --> 00:22:16,380
of the secret people who have the real

458
00:22:20,990 --> 00:22:18,059
knowledge you have left being one of the

459
00:22:22,970 --> 00:22:21,000
sheeple of me sure yes sheep and people

460
00:22:25,340 --> 00:22:22,980
and you are now one of the elite who

461
00:22:27,169 --> 00:22:25,350
really knows what's going on you're

462
00:22:28,640 --> 00:22:27,179
beating the system you're ahead of the

463
00:22:30,049 --> 00:22:28,650

curve all that sort of stuff yeah so

464

00:22:32,120 --> 00:22:30,059

maybe there's one element of

465

00:22:34,789 --> 00:22:32,130

attractiveness about a conspiracy theory

466

00:22:36,409 --> 00:22:34,799

but the overwhelming thing for me is

467

00:22:38,600 --> 00:22:36,419

that it's just plain wrong and the earth

468

00:22:40,669 --> 00:22:38,610

effect we're not just flat but but

469

00:22:42,200 --> 00:22:40,679

easily demonstrated to be circular

470

00:22:44,720 --> 00:22:42,210

spherical and I think you're right but

471

00:22:46,460 --> 00:22:44,730

on the same line the other thing that is

472

00:22:48,530 --> 00:22:46,470

very worrying to us lately in the last

473

00:22:50,630 --> 00:22:48,540

six months we are getting more and more

474

00:22:53,090 --> 00:22:50,640

reports about Meisel outbreaks around

475

00:22:54,930 --> 00:22:53,100

the world where we thought measles have

476
00:22:57,600 --> 00:22:54,940
been done

477
00:23:00,030 --> 00:22:57,610
this is what is known in the military

478
00:23:03,120 --> 00:23:00,040
traders collateral damage where of these

479
00:23:06,450 --> 00:23:03,130
people who do get measles as a result as

480
00:23:10,880 --> 00:23:06,460
a direct result of declining herd

481
00:23:14,610 --> 00:23:10,890
immunity 1000 of them will die and

482
00:23:16,380 --> 00:23:14,620
having worked as a medical doctor I find

483
00:23:18,360 --> 00:23:16,390
this very distressing I was there

484
00:23:20,370 --> 00:23:18,370
working in Sydney at the Children's

485
00:23:21,930 --> 00:23:20,380
Hospital and Kevin down went after a 20

486
00:23:23,940 --> 00:23:21,940
year period of zero deaths from whooping

487
00:23:24,480 --> 00:23:23,950
cough we had the first death in all of

488
00:23:27,870 --> 00:23:24,490

Australia

489

00:23:31,170 --> 00:23:27,880

dude dude totally to the TV series a

490

00:23:32,880 --> 00:23:31,180

Current Affair giving huge publicity to

491

00:23:34,710 --> 00:23:32,890

the anti-vaxxers yeah I don't know what

492

00:23:36,450 --> 00:23:34,720

I was selling mate was dog food maybe it

493

00:23:37,980 --> 00:23:36,460

was cars but as far as they were

494

00:23:39,330 --> 00:23:37,990

concerned they were getting people

495

00:23:42,000 --> 00:23:39,340

watching this show yeah and the fact

496

00:23:43,710 --> 00:23:42,010

that they told them lies about

497

00:23:44,010 --> 00:23:43,720

vaccinations which led to the different

498

00:23:47,130 --> 00:23:44,020

baby

499

00:23:49,080 --> 00:23:47,140

well they didn't deliberately go and

500

00:23:50,520 --> 00:23:49,090

kill the baby they just said words and

501
00:23:52,950 --> 00:23:50,530
if people chose not to give vaccinate

502
00:23:54,300 --> 00:23:52,960
and a baby dog woofs they say to

503
00:23:55,830 --> 00:23:54,310
themselves they weren't responsible his

504
00:23:57,240 --> 00:23:55,840
typical tabloid television is that they

505
00:23:59,250 --> 00:23:57,250
just after the story after the

506
00:24:01,440 --> 00:23:59,260
sensational after the shock or whatever

507
00:24:03,630 --> 00:24:01,450
it is I actually spoke to the person

508
00:24:05,160 --> 00:24:03,640
involved who was one of the bigwigs on

509
00:24:06,930 --> 00:24:05,170
whether one of the presenters on a

510
00:24:09,450 --> 00:24:06,940
Current Affair in the green room at

511
00:24:12,690 --> 00:24:09,460
channel 9 and approached that person and

512
00:24:14,370 --> 00:24:12,700
they stuck very resolutely to the line

513
00:24:17,790 --> 00:24:14,380

that there were two sides of the story

514

00:24:19,370 --> 00:24:17,800

and that they were just giving equal

515

00:24:22,640 --> 00:24:19,380

time

516

00:24:25,850 --> 00:24:22,650

each side the story however consider

517

00:24:27,919 --> 00:24:25,860

this suppose that you are a chef and

518

00:24:30,200 --> 00:24:27,929

that you have a terrible terrible

519

00:24:31,370 --> 00:24:30,210

infectious disease and as a result

520

00:24:33,260 --> 00:24:31,380

you've got terrible terrible diarrhea

521

00:24:35,210 --> 00:24:33,270

but times are bad so you got to keep on

522

00:24:37,400 --> 00:24:35,220

working to earn money and you go to the

523

00:24:39,529 --> 00:24:37,410

bathroom and you end up getting feces on

524

00:24:41,810 --> 00:24:39,539

your hands and you Pepe I would serve

525

00:24:43,880 --> 00:24:41,820

some food well one option is that you

526

00:24:45,230 --> 00:24:43,890

wash your hands and the other option is

527

00:24:47,060 --> 00:24:45,240

that you don't Willis two options each

528

00:24:48,770 --> 00:24:47,070

option according to the character fair

529

00:24:50,419 --> 00:24:48,780

theory it does equal weight and so

530

00:24:52,279 --> 00:24:50,429

therefore you don't wash your hands and

531

00:24:55,340 --> 00:24:52,289

then you spread your disease among

532

00:24:57,260 --> 00:24:55,350

people so you do not always have equal

533

00:24:58,850 --> 00:24:57,270

weight to each side of the story

534

00:25:00,830 --> 00:24:58,860

sometimes one side has more weight than

535

00:25:03,799 --> 00:25:00,840

the other in case of explanation we've

536

00:25:06,380 --> 00:25:03,809

got 400 years of data range starting off

537

00:25:08,120 --> 00:25:06,390

with variolation going into vaccination

538

00:25:09,950 --> 00:25:08,130

and David Isaac's our professor of

539

00:25:12,049 --> 00:25:09,960

pediatrics has written a book on this

540

00:25:14,570 --> 00:25:12,059

called something about Masters of

541

00:25:17,320 --> 00:25:14,580

Deception David Isaac's a wonderful book

542

00:25:19,399 --> 00:25:17,330

on vaccination masters of death now Trey

543

00:25:21,500 --> 00:25:19,409

masters of something we can look it up

544

00:25:23,470 --> 00:25:21,510

that remind your story reminds me the

545

00:25:25,399 --> 00:25:23,480

other thing false balance or false

546

00:25:27,049 --> 00:25:25,409

compromise where you say well what's a

547

00:25:29,990 --> 00:25:27,059

compromise okay well what's just one

548

00:25:32,270 --> 00:25:30,000

hand he can wash one here

549

00:25:34,970 --> 00:25:32,280

yeah well so getting back to what people

550

00:25:36,860 --> 00:25:34,980

believe conspiracy theories a lot of

551

00:25:39,950 --> 00:25:36,870

reading on it a lot of literature I

552

00:25:42,470 --> 00:25:39,960

still haven't found any answer that

553

00:25:44,270 --> 00:25:42,480

convinces me to this is the correct

554

00:25:47,450 --> 00:25:44,280

reason as to why people believe rubbish

555

00:25:49,100 --> 00:25:47,460

but nevertheless you see people you hear

556

00:25:50,930 --> 00:25:49,110

them in the world around you believing

557

00:25:52,430 --> 00:25:50,940

rubbish so it's a real phenomenon but I

558

00:25:53,120 --> 00:25:52,440

don't have a group cause for a good

559

00:25:55,370 --> 00:25:53,130

explanation

560

00:25:57,440 --> 00:25:55,380

thank you dr. Karl and yes we are

561

00:25:59,600 --> 00:25:57,450

recording in the middle of a city bus

562

00:26:01,460 --> 00:25:59,610

heading up city roads

563

00:26:04,160 --> 00:26:01,470

yeah this is City Road isn't the City

564

00:26:07,040 --> 00:26:04,170

Road University yeah and when they built

565

00:26:09,620 --> 00:26:07,050

the University of Sydney 150 or so years

566

00:26:11,570 --> 00:26:09,630

ago it was there were much many

567

00:26:13,910 --> 00:26:11,580

complaints because it was too far out of

568

00:26:16,840 --> 00:26:13,920

the town of City being a whole kilometer

569

00:26:16,850 --> 00:26:27,640

[Music]

570

00:26:31,700 --> 00:26:30,230

today this dr. Karl Karl Chris must be

571

00:26:33,890 --> 00:26:31,710

proud to be a skeptic and you can find

572

00:26:38,860 --> 00:26:33,900

out more about me at dr. Karl calm and

573

00:26:38,870 --> 00:26:51,430

[Music]

574

00:26:55,820 --> 00:26:54,020

here we are once again may the 4th be

575

00:26:58,460 --> 00:26:55,830

with you it's the 4th of May I'm here at

576

00:27:00,529 --> 00:26:58,470

the East Sydney doctors and I'm looking

577

00:27:02,270 --> 00:27:00,539

at a wondrous sight Trish and I'm

578

00:27:05,210 --> 00:27:02,280

looking at a wondrous sight it's a table

579

00:27:07,909 --> 00:27:05,220

full of cupcakes and that's what we're

580

00:27:09,470 --> 00:27:07,919

really here for and after we eat the

581

00:27:11,659 --> 00:27:09,480

cupcakes or before we eat the cupcakes

582

00:27:14,240 --> 00:27:11,669

were all going to get a flu vaccination

583

00:27:15,980 --> 00:27:14,250

oh you're tempting me now you're opening

584

00:27:17,210 --> 00:27:15,990

up the cupcakes in front of my eyes what

585

00:27:20,000 --> 00:27:17,220

are they they're blueberry ones are

586

00:27:23,390 --> 00:27:20,010

savory we've got chocolate we've got all

587

00:27:26,570 --> 00:27:23,400

sorts of oh what's this mini chop chip

588

00:27:28,130 --> 00:27:26,580

muffins this is pretty this is pretty

589

00:27:30,260 --> 00:27:28,140

good so we did this last year so

590

00:27:33,620 --> 00:27:30,270

skeptics here in Sydney had a

591

00:27:35,630 --> 00:27:33,630

vaccination day flu vaccination day and

592

00:27:39,320 --> 00:27:35,640

it was a great success in fact I

593

00:27:41,690 --> 00:27:39,330

reported on that on show 500 and we're

594

00:27:43,310 --> 00:27:41,700

back again hello Lara from the committee

595

00:27:46,310 --> 00:27:43,320

you're here for your vaccinations yes I

596

00:27:48,799 --> 00:27:46,320

am yes the WiiU here last year remind me

597

00:27:52,159 --> 00:27:48,809

for this day I was here last year I

598

00:27:55,070 --> 00:27:52,169

forget these things and oh there's dr.

599

00:27:56,419 --> 00:27:55,080

Brad McCoy stepping forward with his

600

00:27:59,090 --> 00:27:56,429

medical supplies you'll be giving

601
00:28:00,980 --> 00:27:59,100
yourself vaccinations a bit later on

602
00:28:03,260 --> 00:28:00,990
we're expecting a good turn up here

603
00:28:04,880 --> 00:28:03,270
today and I think it sends out a good

604
00:28:06,620 --> 00:28:04,890
message yeah we've got quite a lot of

605
00:28:08,510 --> 00:28:06,630
people registered so assuming they will

606
00:28:09,919 --> 00:28:08,520
turn up we're gonna be very very busy if

607
00:28:10,640 --> 00:28:09,929
they don't turn up we get to eat all

608
00:28:13,900 --> 00:28:10,650
these cupcakes

609
00:28:19,100 --> 00:28:16,790
it's Tim Mendham the editor of extreme

610
00:28:20,780 --> 00:28:19,110
skeptics magazine the skeptic the

611
00:28:23,270 --> 00:28:20,790
skeptic has the latest issue coming

612
00:28:24,830 --> 00:28:23,280
along Jim X I got one not so long ago in

613
00:28:25,820 --> 00:28:24,840

the post you would have done actually

614

00:28:27,380 --> 00:28:25,830

that would have been the March issues

615

00:28:28,640 --> 00:28:27,390

we're working on the June issue right

616

00:28:31,670 --> 00:28:28,650

now which is obviously going to come out

617

00:28:34,130 --> 00:28:31,680

in June pretty appropriate big feature

618

00:28:35,210 --> 00:28:34,140

in that on free speech and what it

619

00:28:37,610 --> 00:28:35,220

actually means and what are the legal

620

00:28:41,620 --> 00:28:37,620

implications of free speech plus other

621

00:28:44,480 --> 00:28:41,630

stories major article about UFO

622

00:28:46,070 --> 00:28:44,490

claimants and the US military and how

623

00:28:47,840 --> 00:28:46,080

they actually interact or not actually

624

00:28:48,590 --> 00:28:47,850

in the secret knowledge that sort of

625

00:28:50,840 --> 00:28:48,600

thing

626
00:28:52,370 --> 00:28:50,850
and in that sort of Spacey theme because

627
00:28:55,930 --> 00:28:52,380
we have to note that it is actually the

628
00:29:00,260 --> 00:28:55,940
50th anniversary well the moon landing

629
00:29:05,780 --> 00:29:00,270
absolutely it is indeed and the it is

630
00:29:08,270 --> 00:29:05,790
that's that in very soon and we were

631
00:29:11,540 --> 00:29:08,280
just having a discussion before because

632
00:29:14,150 --> 00:29:11,550
today on the interwebs it came to my

633
00:29:16,790 --> 00:29:14,160
attention that I've been quoted somebody

634
00:29:18,920 --> 00:29:16,800
in Duluth read an article in The

635
00:29:20,480 --> 00:29:18,930
Skeptical Inquirer and used my name

636
00:29:22,910 --> 00:29:20,490
to write a letter to the editor of

637
00:29:24,140 --> 00:29:22,920
something else oh it was quite it's

638
00:29:27,460 --> 00:29:24,150

quite interesting and you were saying

639

00:29:29,660 --> 00:29:27,470

that not so long ago the skeptics were

640

00:29:31,730 --> 00:29:29,670

taken to task in a letter to the editor

641

00:29:33,320 --> 00:29:31,740

but the person got us completely wrong

642

00:29:34,970 --> 00:29:33,330

that's right exactly right I mean sort

643

00:29:37,160 --> 00:29:34,980

of obviously we're becoming very famous

644

00:29:38,930 --> 00:29:37,170

in the u.s. yeah in that what Duluth of

645

00:29:43,340 --> 00:29:38,940

decent and when I got mentioned in was a

646

00:29:45,470 --> 00:29:43,350

tiny town and yeah they were talking

647

00:29:47,600 --> 00:29:45,480

about some of the acclaim that was a

648

00:29:48,770 --> 00:29:47,610

response to a different letter and they

649

00:29:51,590 --> 00:29:48,780

made a claim that the Australian

650

00:29:53,960 --> 00:29:51,600

skeptics but you know stand for this etc

651
00:29:55,430 --> 00:29:53,970
and we've given an award to someone for

652
00:29:58,070 --> 00:29:55,440
this particular I think about climate

653
00:29:59,750 --> 00:29:58,080
change simply gave an award to someone

654
00:30:01,430 --> 00:29:59,760
about it was against climate change they

655
00:30:04,010 --> 00:30:01,440
had to write back and say correct the

656
00:30:06,419 --> 00:30:04,020
well people just assume that we are

657
00:30:08,759 --> 00:30:06,429
because they hear the word skeptic

658
00:30:11,279 --> 00:30:08,769
they've heard the words climate change

659
00:30:12,690 --> 00:30:11,289
skeptics only are Australians given exam

660
00:30:14,039 --> 00:30:12,700
they must be climate change skeptics

661
00:30:16,470 --> 00:30:14,049
yeah well sort of one person who's

662
00:30:18,359 --> 00:30:16,480
particularly known as a against climate

663
00:30:19,950 --> 00:30:18,369

change here in Australia many years ago

664

00:30:22,769 --> 00:30:19,960

was a very good worker for Australian

665

00:30:23,970 --> 00:30:22,779

skeptics against creationists yeah that

666

00:30:26,369 --> 00:30:23,980

was a totally different thing but I mean

667

00:30:28,169 --> 00:30:26,379

he was very effective in that area and

668

00:30:29,850 --> 00:30:28,179

we supported him Amanda we gave him an

669

00:30:32,009 --> 00:30:29,860

award because of it but therefore people

670

00:30:34,109 --> 00:30:32,019

confuse the two they do they can diffuse

671

00:30:35,909 --> 00:30:34,119

the two but let there be no confusion we

672

00:30:40,560 --> 00:30:35,919

are not being the same as the climate

673

00:30:44,820 --> 00:30:40,570

change skeptics and you've just had your

674

00:30:47,340 --> 00:30:44,830

flu shot and you're now sticking on a an

675

00:30:49,710 --> 00:30:47,350

Australian skeptics transfer tattoo and

676

00:30:52,619 --> 00:30:49,720

at the same time you're eyeing this

677

00:30:53,909 --> 00:30:52,629

table of cupcakes and muffins and how

678

00:30:59,580 --> 00:30:53,919

was your experience

679

00:31:02,159 --> 00:30:59,590

oh it was fun it didn't hurt the

680

00:31:04,649 --> 00:31:02,169

syringes and these cupcakes look

681

00:31:07,499 --> 00:31:04,659

delicious although I have to say I'm

682

00:31:09,269 --> 00:31:07,509

more of a savory person and I tried them

683

00:31:11,340 --> 00:31:09,279

last time they were delicious but very

684

00:31:13,499 --> 00:31:11,350

sweet you're right actually

685

00:31:17,519 --> 00:31:13,509

what I discovered last year when I had

686

00:31:19,019 --> 00:31:17,529

my flu vaccination dr. brad is it it

687

00:31:21,239 --> 00:31:19,029

doesn't hurt I mean you hardly notice

688

00:31:23,519 --> 00:31:21,249

it's happening at all which is a good

689

00:31:25,470 --> 00:31:23,529

thing no and you know you've got the

690

00:31:27,810 --> 00:31:25,480

benefit of having to worry less about

691

00:31:29,669 --> 00:31:27,820

getting the flu in winter so that's

692

00:31:31,109 --> 00:31:29,679

perfect and it's great weather for a

693

00:31:34,289 --> 00:31:31,119

nice little walk through darlinghurst

694

00:31:36,419 --> 00:31:34,299

and catching up with some skeptics so

695

00:31:37,799 --> 00:31:36,429

that's all good it's a good day and I

696

00:31:41,220 --> 00:31:37,809

think your transfer is just about ready

697

00:31:43,440 --> 00:31:41,230

let's have a look peel off the paper yes

698

00:31:46,079 --> 00:31:43,450

work fantastically

699

00:31:52,549 --> 00:31:46,089

and she should be ready by now so just

700

00:31:58,529 --> 00:31:55,919

there is I got it look at that I just

701
00:32:03,839 --> 00:31:58,539
have to pat down that corner you've got

702
00:32:05,099 --> 00:32:03,849
it thank you thank you I think people

703
00:32:06,749 --> 00:32:05,109
are really coming here just for the

704
00:32:09,359 --> 00:32:06,759
cupcakes you've got what's this a choc

705
00:32:12,149 --> 00:32:09,369
chip one chip muffin yeah it's quite

706
00:32:14,039 --> 00:32:12,159
nice and this is one of the little

707
00:32:16,799 --> 00:32:14,049
bonuses extra bonuses are coming along

708
00:32:18,739 --> 00:32:16,809
the Australian skeptics flu vaccination

709
00:32:23,519 --> 00:32:18,749
day how did you find out about the day I

710
00:32:27,539 --> 00:32:23,529
found out about it on my nursing page

711
00:32:31,259 --> 00:32:27,549
that I study they posted about this free

712
00:32:33,089 --> 00:32:31,269
flu vaccination day right and I just saw

713
00:32:36,329 --> 00:32:33,099

come along if you thought to be a good

714

00:32:39,479 --> 00:32:36,339

thing and I didn't expect this sort of

715

00:32:41,009 --> 00:32:39,489

integrate thing oh you never know what

716

00:32:43,159 --> 00:32:41,019

to expect with the Australian skeptics

717

00:32:45,029 --> 00:32:43,169

but now I'm very pleased to see you and

718

00:32:47,879 --> 00:32:45,039

congratulations are rolling up rolling

719

00:32:51,299 --> 00:32:47,889

up your sleeve as it were and getting

720

00:32:53,339 --> 00:32:51,309

your flu vaccination Thank You Jessica

721

00:32:54,989 --> 00:32:53,349

you're here for your vaccination I'm

722

00:32:56,969 --> 00:32:54,999

here for my vaccination but I'm also

723

00:32:59,459 --> 00:32:56,979

here in my capacity as committee member

724

00:33:02,639 --> 00:32:59,469

meeting and greeting people and giving

725

00:33:04,259 --> 00:33:02,649

them the forms to fill out and generally

726

00:33:06,149 --> 00:33:04,269

helping things run smoothly

727

00:33:09,529 --> 00:33:06,159

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

728

00:33:11,879 --> 00:33:09,539

start there we are dr. bodis as we speak

729

00:33:14,190 --> 00:33:11,889

vaccinating some-somebody us against the

730

00:33:17,159 --> 00:33:14,200

flu we've had people lining up for their

731

00:33:19,079 --> 00:33:17,169

cupcakes and tattoos have you got your

732

00:33:20,339 --> 00:33:19,089

tattoo yet I don't have my tattoo yet

733

00:33:21,959 --> 00:33:20,349

but there's a really good selection

734

00:33:25,289 --> 00:33:21,969

isn't there what would you recommend

735

00:33:29,219 --> 00:33:25,299

this what is that I can't write that

736

00:33:31,349 --> 00:33:29,229

oh it says spread live not the flu this

737

00:33:32,940 --> 00:33:31,359

one is our logo these stones that I've

738

00:33:36,959 --> 00:33:32,950

got one on each hand strain sceptics

739

00:33:39,119 --> 00:33:36,969

logo there we go fantastic dude do we

740

00:33:41,819 --> 00:33:39,129

also have a hug me unvaccinated one yeah

741

00:33:46,910 --> 00:33:41,829

I think so I think so we'll put that one

742

00:33:49,610 --> 00:33:46,920

on you in your thank-you

743

00:33:51,560 --> 00:33:49,620

and it's come to my turn hi dr. Brad

744

00:33:52,940 --> 00:33:51,570

hello Richards great to see you again

745

00:33:55,400 --> 00:33:52,950

haven't seen you for a little while but

746

00:33:57,200 --> 00:33:55,410

you do mine exotic travel gallivanting

747

00:33:58,850 --> 00:33:57,210

around the place but I send you messages

748

00:34:02,390 --> 00:33:58,860

say dr. Brad I've got this nasty

749

00:34:04,010 --> 00:34:02,400

reaction when you send me photos that

750

00:34:05,570 --> 00:34:04,020

know the problems the problem anyway

751

00:34:08,360 --> 00:34:05,580

Here I am I'm sitting next to dr. Brad

752

00:34:12,130 --> 00:34:08,370

were under the flu vaccination sign and

753

00:34:14,600 --> 00:34:12,140

I'm time for me to roll up my sleeve so

754

00:34:20,169 --> 00:34:14,610

there we go this way you tell everybody

755

00:34:21,320 --> 00:34:20,179

your age Richard Oh everybody knows

756

00:34:23,870 --> 00:34:21,330

21:21

757

00:34:28,700 --> 00:34:23,880

I do he's a 21 year old vaccinate thank

758

00:34:31,610 --> 00:34:28,710

you some somewhere in my early 50s how

759

00:34:37,310 --> 00:34:31,620

about that oh okay now you're just

760

00:34:39,020 --> 00:34:37,320

preparing the syringe Remo to stop

761

00:34:42,440 --> 00:34:39,030

yourself from getting influenza this

762

00:34:44,060 --> 00:34:42,450

year so we have a a quadrivalent vaccine

763

00:34:46,669 --> 00:34:44,070

which protects you against two type A

764

00:34:48,620 --> 00:34:46,679

and two type B influenza viruses yeah

765

00:34:50,930 --> 00:34:48,630

and we're anticipating that it should

766

00:34:52,580 --> 00:34:50,940

last for hopefully three to six months

767

00:34:54,260 --> 00:34:52,590

so getting you through the whole

768

00:34:55,970 --> 00:34:54,270

terrible winter season

769

00:34:58,400 --> 00:34:55,980

excellent and for someone like me who

770

00:35:00,380 --> 00:34:58,410

gather pants I need all the protection I

771

00:35:02,780 --> 00:35:00,390

can get over here if you're not getting

772

00:35:04,310 --> 00:35:02,790

on and off planes all the time then you

773

00:35:06,470 --> 00:35:04,320

are the prime candidate for being

774

00:35:08,900 --> 00:35:06,480

coughed and sneezed on in a in a very

775

00:35:10,910 --> 00:35:08,910

tight tin can in the middle of the sky

776

00:35:13,490 --> 00:35:10,920

oh I think I've been put off flying

777

00:35:15,410 --> 00:35:13,500

forever anyway here it comes here just

778

00:35:17,360 --> 00:35:15,420

preparing my arm at the moment a little

779

00:35:20,930 --> 00:35:17,370

bit of them so you'll need to relax a

780

00:35:22,310 --> 00:35:20,940

little bit more richer I'm not going to

781

00:35:29,030 --> 00:35:22,320

look I'm not going thinking of walking

782

00:35:32,300 --> 00:35:29,040

along the beach yeah oh and yep a little

783

00:35:34,160 --> 00:35:32,310

bit of a scratch yeah and yeah I could

784

00:35:36,560 --> 00:35:34,170

obviously feel it there's no pain it's

785

00:35:38,750 --> 00:35:36,570

just like somebody scratching you or

786

00:35:40,670 --> 00:35:38,760

something overdone hold on oh darling

787

00:35:42,780 --> 00:35:40,680

band-aid goes on you're not allergic to

788

00:35:45,810 --> 00:35:42,790

band-aids

789

00:35:47,400 --> 00:35:45,820

yeah one of those questions doctors

790

00:35:48,950 --> 00:35:47,410

often forget to ask okay interesting

791

00:35:52,500 --> 00:35:48,960

until we are like approaching

792

00:35:54,810 --> 00:35:52,510

approaching you and going oh no well

793

00:35:56,460 --> 00:35:54,820

thank you very much that's great quick

794

00:35:58,710 --> 00:35:56,470

if I can literally painless but the best

795

00:36:00,150 --> 00:35:58,720

thing is now I can legitimately get one

796

00:36:02,850 --> 00:36:00,160

of these cupcakes so again let

797

00:36:08,190 --> 00:36:02,860

everything in balance so yeah healthy to

798

00:36:15,090 --> 00:36:11,130

skeptics certainly were ready to roll up

799

00:36:16,950 --> 00:36:15,100

there Stephen even even now editor Tim

800

00:36:20,940 --> 00:36:16,960

Mendham is getting his flu vaccination

801
00:36:23,190 --> 00:36:20,950
shot as it happens Tim you're about to

802
00:36:25,200 --> 00:36:23,200
get your flu shot your vaccination your

803
00:36:27,600 --> 00:36:25,210
immunization that the word we must use

804
00:36:29,160 --> 00:36:27,610
whatever it is right now I'm extremely

805
00:36:52,930 --> 00:36:29,170
nervous about this actually I don't know

806
00:36:57,010 --> 00:36:55,390
so flu vaccination days can be a lot of

807
00:37:00,810 --> 00:36:57,020
fighting but actually I'd really enjoy

808
00:37:05,920 --> 00:37:04,180
now I did this last year the flu

809
00:37:07,960 --> 00:37:05,930
vaccination clinic is well underway

810
00:37:12,340 --> 00:37:07,970
inside I'm walking down onto the street

811
00:37:14,230 --> 00:37:12,350
it's a very quiet out here on the street

812
00:37:16,450 --> 00:37:14,240
it's Martin Headley from the committee

813
00:37:17,800 --> 00:37:16,460

but have you been keeping all the

814

00:37:20,050 --> 00:37:17,810

protesters the anti vaccination

815

00:37:21,040 --> 00:37:20,060

protestors at bay not much trouble from

816

00:37:23,290 --> 00:37:21,050

them so far

817

00:37:26,170 --> 00:37:23,300

in fact it's there's nobody here at the

818

00:37:28,350 --> 00:37:26,180

moment it's very quiet indeed well just

819

00:37:30,910 --> 00:37:28,360

people enjoying a beautiful day yeah

820

00:37:32,950 --> 00:37:30,920

some cyclists going past and his keys

821

00:37:33,610 --> 00:37:32,960

one of these newfangled lectric bikes

822

00:37:37,000 --> 00:37:33,620

there we go

823

00:37:38,320 --> 00:37:37,010

so he oh she is getting power-assist

824

00:37:39,940 --> 00:37:38,330

going up the hill it's rude to point

825

00:37:40,480 --> 00:37:39,950

Richard history at the point I wish him

826

00:37:43,960 --> 00:37:40,490

good

827

00:37:46,630 --> 00:37:43,970

Thank You Martin walk back inside now

828

00:37:48,700 --> 00:37:46,640

and and as was the case last year the

829

00:37:52,360 --> 00:37:48,710

hordes of auntie Beck's protesters did

830

00:37:54,220 --> 00:37:52,370

not show up well it's been a very

831

00:37:56,950 --> 00:37:54,230

enjoyable afternoon here at the Sydney

832

00:37:59,890 --> 00:37:56,960

doctors clinic more and more people are

833

00:38:02,320 --> 00:37:59,900

coming up we've got a young family just

834

00:38:04,090 --> 00:38:02,330

coming up for flu vaccinations Brad is

835

00:38:06,070 --> 00:38:04,100

busy in the corner there chatting to the

836

00:38:08,170 --> 00:38:06,080

next patient to get their flu

837

00:38:09,730 --> 00:38:08,180

vaccination and I think it's a very

838

00:38:12,040 --> 00:38:09,740

worthwhile thing that the Australian

839

00:38:14,100 --> 00:38:12,050

skeptics have done last year and this

840

00:38:17,970 --> 00:38:14,110

year helping to protect our community

841

00:38:17,980 --> 00:38:29,400

[Music]

842

00:38:34,840 --> 00:38:32,710

hi my name is Trish and can I just talk

843

00:38:36,340 --> 00:38:34,850

to you about the flu vaccine or more

844

00:38:38,380 --> 00:38:36,350

specifically when you should get

845

00:38:40,000 --> 00:38:38,390

immunized in the southern hemisphere the

846

00:38:41,260 --> 00:38:40,010

flu vaccine becomes available in March

847

00:38:43,990 --> 00:38:41,270

but should you run out and get it

848

00:38:45,700 --> 00:38:44,000

straight away or should you wait as you

849

00:38:47,560 --> 00:38:45,710

may know you need to get an updated flu

850

00:38:49,720 --> 00:38:47,570

vaccine every year to keep up with the

851

00:38:51,820 --> 00:38:49,730

mutating virus and the latest research

852

00:38:53,470 --> 00:38:51,830

shows a vaccine may only last for three

853

00:38:56,140 --> 00:38:53,480

to six months before you lose protection

854

00:38:58,030 --> 00:38:56,150

so timing is essential while the world

855

00:38:59,530 --> 00:38:58,040

sees cases of influenza throughout the

856

00:39:01,870 --> 00:38:59,540

year in the southern hemisphere the

857

00:39:03,580 --> 00:39:01,880

thirties and really begins in June it

858

00:39:05,620 --> 00:39:03,590

spreads through offices and train

859

00:39:08,470 --> 00:39:05,630

carriages increasing to peak flu season

860

00:39:10,810 --> 00:39:08,480

around August and it's usually all over

861

00:39:13,240 --> 00:39:10,820

and done with by October so what's the

862

00:39:14,920 --> 00:39:13,250

best time well you don't need to rush to

863

00:39:16,540 --> 00:39:14,930

the pharmacy too early but the vaccine

864

00:39:18,250 --> 00:39:16,550

does take a couple of weeks before it

865

00:39:20,230 --> 00:39:18,260

starts working so don't wait until

866

00:39:23,020 --> 00:39:20,240

everyone's already snotty and miserable

867

00:39:24,609 --> 00:39:23,030

it looks like May is a good time to get

868

00:39:26,650 --> 00:39:24,619

immunized because the vaccine will offer

869

00:39:28,930 --> 00:39:26,660

the best protection over the peak of the

870

00:39:30,220 --> 00:39:28,940

season you may be listening to this and

871

00:39:32,020 --> 00:39:30,230

wondering if you could just go ahead and

872

00:39:34,240 --> 00:39:32,030

have two vaccines spaced out over the

873

00:39:36,430 --> 00:39:34,250

year well you might be right you might

874

00:39:38,650 --> 00:39:36,440

be wrong science hasn't proven this yet

875

00:39:40,359 --> 00:39:38,660

and while it might sound logical it's

876

00:39:42,640 --> 00:39:40,369

probably best to wait until we know for

877

00:39:44,770 --> 00:39:42,650

sure this information is based on a

878

00:39:46,180 --> 00:39:44,780

typical flu season so keep an eye out

879

00:39:48,040 --> 00:39:46,190

for bulletins from your local public

880

00:39:50,349 --> 00:39:48,050

health department as each season has its

881

00:39:52,030 --> 00:39:50,359

own individual quirks and of course if

882

00:39:53,910 --> 00:39:52,040

you have problems with your health or if

883

00:39:57,310 --> 00:39:53,920

you're pregnant speak with your doctor

884

00:39:59,290 --> 00:39:57,320

above all else the most effective way to

885

00:40:02,109 --> 00:39:59,300

protect yourself from the flu is to get

886

00:40:03,910 --> 00:40:02,119

vaccinated it not only decreases your

887

00:40:05,349 --> 00:40:03,920

chance of becoming a snotty flu factory

888

00:40:06,940 --> 00:40:05,359

but it might just stop you from

889

00:40:10,580 --> 00:40:06,950

infecting your friends and family with a

890

00:40:26,070 --> 00:40:10,590

virus that kills thousands every year

891

00:40:28,080 --> 00:40:26,080

[Music]

892

00:40:31,080 --> 00:40:28,090

and joining me now from Canberra

893

00:40:35,640 --> 00:40:31,090

Australia's capital it's Tom and girona

894

00:40:38,610 --> 00:40:35,650

from pint of science hello hello very

895

00:40:40,740 --> 00:40:38,620

lovely to be here hi Ricky thanks a lot

896

00:40:42,450 --> 00:40:40,750

for sparing some time to tell me

897

00:40:45,270 --> 00:40:42,460

especially me and all our listeners

898

00:40:47,190 --> 00:40:45,280

around the world about pint of science

899

00:40:50,130 --> 00:40:47,200

now I like a pint I like a pint of

900

00:40:53,430 --> 00:40:50,140

Guinness myself what's pint of science

901
00:40:56,100 --> 00:40:53,440
all about so pi designs is an

902
00:41:00,000 --> 00:40:56,110
international special across three days

903
00:41:02,070 --> 00:41:00,010
or a week in may now this here is the

904
00:41:05,220 --> 00:41:02,080
main festival goes through the 20th to

905
00:41:07,500 --> 00:41:05,230
the 22nd of May and the aim is to get

906
00:41:10,080 --> 00:41:07,510
scientists down to the pub have a bit of

907
00:41:13,650 --> 00:41:10,090
a chat over a bevy or two depending what

908
00:41:16,440 --> 00:41:13,660
you're into and discuss science or to be

909
00:41:17,910 --> 00:41:16,450
more specific their current research so

910
00:41:19,950 --> 00:41:17,920
we're interested in finding out what

911
00:41:22,410 --> 00:41:19,960
they're up to right now and what's the

912
00:41:24,750 --> 00:41:22,420
upcoming science that's happening around

913
00:41:26,910 --> 00:41:24,760

us or to be honest just around the

914

00:41:28,860 --> 00:41:26,920

corner from you what we really love

915

00:41:30,900 --> 00:41:28,870

about it is you're bringing local

916

00:41:33,060 --> 00:41:30,910

research into the local pub to talk to

917

00:41:35,270 --> 00:41:33,070

local people and that's something that

918

00:41:38,580 --> 00:41:35,280

you don't see in a lot of other festival

919

00:41:40,680 --> 00:41:38,590

absolutely now you may you may be aware

920

00:41:41,880 --> 00:41:40,690

that Australian skeptics and skeptics in

921

00:41:43,230 --> 00:41:41,890

general around the world have had

922

00:41:46,380 --> 00:41:43,240

something called skeptics in the pub

923

00:41:48,900 --> 00:41:46,390

going for many many many years and this

924

00:41:50,790 --> 00:41:48,910

is a monthly event but the idea is it's

925

00:41:53,550 --> 00:41:50,800

very informal or you can't get much more

926
00:41:55,320 --> 00:41:53,560
informal than a pub and you have special

927
00:41:57,930 --> 00:41:55,330
guests and speakers and people can just

928
00:42:00,660 --> 00:41:57,940
socialise chat have a drink and discover

929
00:42:02,580 --> 00:42:00,670
more and it seems to me that's

930
00:42:04,500 --> 00:42:02,590
absolutely your philosophy get the

931
00:42:07,320 --> 00:42:04,510
scientists out of the lab get them into

932
00:42:09,750 --> 00:42:07,330
a every day setting so people can simply

933
00:42:12,540 --> 00:42:09,760
talk with them definitely and I think

934
00:42:15,720 --> 00:42:12,550
there's there's nothing greater to

935
00:42:17,100 --> 00:42:15,730
humanize the scientists then for someone

936
00:42:18,750 --> 00:42:17,110
who's sitting in the audience to be

937
00:42:20,100 --> 00:42:18,760
ready for the first talk to start and

938
00:42:22,020 --> 00:42:20,110

the person who's sitting beside you that

939

00:42:26,040 --> 00:42:22,030

you just bought a beer with it gets up

940

00:42:30,330 --> 00:42:26,050

to talk it's a wonderful wonderful

941

00:42:32,820 --> 00:42:30,340

platform to be able to really be able to

942

00:42:34,890 --> 00:42:32,830

hear the person behind the science and

943

00:42:38,530 --> 00:42:34,900

hear the stories and hear about the

944

00:42:41,290 --> 00:42:38,540

science is happening right now that's

945

00:42:44,290 --> 00:42:41,300

we quite often see the big stories that

946

00:42:47,140 --> 00:42:44,300

come through the media we'll hear about

947

00:42:49,150 --> 00:42:47,150

the giant breakthroughs in astronomy or

948

00:42:52,300 --> 00:42:49,160

in medical research but it is really

949

00:42:54,340 --> 00:42:52,310

valuable for us to be able to hear about

950

00:42:58,120 --> 00:42:54,350

a lot of the steps that go along the way

951
00:43:00,520 --> 00:42:58,130
with the science discovery I can't think

952
00:43:02,410 --> 00:43:00,530
of a more enjoyable way to spend an

953
00:43:04,359 --> 00:43:02,420
evening than having a nice social drink

954
00:43:06,790 --> 00:43:04,369
in a very relaxed setting chatting to a

955
00:43:09,520 --> 00:43:06,800
scientist or hearing a scientist bring

956
00:43:11,530 --> 00:43:09,530
their news and information to you what's

957
00:43:13,260 --> 00:43:11,540
happening around Australia to begin with

958
00:43:16,690 --> 00:43:13,270
what have you got lined up

959
00:43:19,740 --> 00:43:16,700
well our festival covers most if not all

960
00:43:23,080 --> 00:43:19,750
topics of science we actually have our

961
00:43:25,599 --> 00:43:23,090
themes as you May to help kind of guide

962
00:43:28,030 --> 00:43:25,609
the audience and our speakers into the

963
00:43:30,900 --> 00:43:28,040

different topics to theme a night so we

964

00:43:35,020 --> 00:43:30,910

have topics that surround things such as

965

00:43:36,430 --> 00:43:35,030

antimatter and talking about all the

966

00:43:38,080 --> 00:43:36,440

things happening in space which is a

967

00:43:40,780 --> 00:43:38,090

very hot topic right now in Australia

968

00:43:43,570 --> 00:43:40,790

yeah we have other things covering

969

00:43:46,210 --> 00:43:43,580

climate change jellyfish

970

00:43:48,190 --> 00:43:46,220

we're talking about koalas which is

971

00:43:50,470 --> 00:43:48,200

really really interesting for those who

972

00:43:53,650 --> 00:43:50,480

don't know it is a marsupial animal that

973

00:43:57,630 --> 00:43:53,660

is kind of like a kangaroo but much

974

00:43:58,780 --> 00:43:57,640

smaller and is spotted we're talking

975

00:44:02,470 --> 00:43:58,790

firestorms

976

00:44:04,120 --> 00:44:02,480

and it's such a big array of different

977

00:44:07,540 --> 00:44:04,130

fields of science we're covering things

978

00:44:10,030 --> 00:44:07,550

from all the way including politics and

979

00:44:12,130 --> 00:44:10,040

policies around science and including

980

00:44:15,880 --> 00:44:12,140

things you might be more familiar with

981

00:44:18,550 --> 00:44:15,890

in the animal fields or the microbiology

982

00:44:21,340 --> 00:44:18,560

fields but then there's also things such

983

00:44:23,859 --> 00:44:21,350

as brains and neuroscience and talking

984

00:44:25,780 --> 00:44:23,869

about how we think when even our mental

985

00:44:28,200 --> 00:44:25,790

health is becoming a topic that comes

986

00:44:30,700 --> 00:44:28,210

through with our scientists as well so

987

00:44:33,070 --> 00:44:30,710

it's everything that you could think

988

00:44:34,960 --> 00:44:33,080

goes under the banner of science we've

989

00:44:39,250 --> 00:44:34,970

probably got a topic about it it's

990

00:44:41,680 --> 00:44:39,260

actually a really really fun way for for

991

00:44:43,000 --> 00:44:41,690

you to go along and find out bits of

992

00:44:44,560 --> 00:44:43,010

science that you're not familiar with

993

00:44:47,440 --> 00:44:44,570

them that's actually something that we

994

00:44:49,240 --> 00:44:47,450

find a lot of a lot of our audience who

995

00:44:51,750 --> 00:44:49,250

are already professional researchers who

996

00:44:54,630 --> 00:44:51,760

do come along they use this kind of

997

00:44:57,210 --> 00:44:54,640

as a as a way of being able to find out

998

00:44:58,800 --> 00:44:57,220

what other science is happening as

999

00:45:00,270 --> 00:44:58,810

opposed to just sticking to their their

1000

00:45:01,770 --> 00:45:00,280

own the only mate chemistry if there are

1001

00:45:03,480 --> 00:45:01,780

chemists or only their biology of their

1002

00:45:05,430 --> 00:45:03,490

a biologist and that reminds me of the

1003

00:45:07,140 --> 00:45:05,440

story you were telling me where a

1004

00:45:09,480 --> 00:45:07,150

scientists went along to another

1005

00:45:12,060 --> 00:45:09,490

scientist event and actually found out a

1006

00:45:14,400 --> 00:45:12,070

way to change their research to then

1007

00:45:15,120 --> 00:45:14,410

find out their problem I can't remember

1008

00:45:16,140 --> 00:45:15,130

the full story

1009

00:45:17,580 --> 00:45:16,150

do you remember what I'm told I'm not

1010

00:45:19,349 --> 00:45:17,590

sure I can remember the full story but I

1011

00:45:21,810 --> 00:45:19,359

remember the context around it yeah and

1012

00:45:24,420 --> 00:45:21,820

I know that they then went on to form a

1013

00:45:25,830 --> 00:45:24,430

collaboration and so I don't I don't

1014

00:45:28,560 --> 00:45:25,840

think there's any anything that's come

1015

00:45:29,849 --> 00:45:28,570

out yet but definitely there has been a

1016

00:45:31,680 --> 00:45:29,859

recent at least one research

1017

00:45:34,680 --> 00:45:31,690

collaboration that we can claim at point

1018

00:45:36,240 --> 00:45:34,690

of science I'm sure you're right and you

1019

00:45:38,070 --> 00:45:36,250

know what folks I'm just looking at the

1020

00:45:40,680 --> 00:45:38,080

website as we're chatting which is pint

1021

00:45:42,930 --> 00:45:40,690

of science one word.com today you and

1022

00:45:44,970 --> 00:45:42,940

I'm blown away it should be called

1023

00:45:47,220 --> 00:45:44,980

gallon of science because there's a

1024

00:45:48,960 --> 00:45:47,230

little button here you scroll down every

1025

00:45:51,359 --> 00:45:48,970

major city just about in Australia's

1026

00:45:53,640 --> 00:45:51,369

covered and just for example I'm

1027

00:45:55,859 --> 00:45:53,650

pressing on the Cindy button and event

1028

00:45:58,109 --> 00:45:55,869

after event after event this is all

1029

00:46:01,800 --> 00:45:58,119

happening from the 20th to the 22nd of

1030

00:46:03,540 --> 00:46:01,810

May here in Australia more science and

1031

00:46:07,770 --> 00:46:03,550

you can focus to get but how does it

1032

00:46:11,910 --> 00:46:07,780

work internationally so so it did start

1033

00:46:15,599 --> 00:46:11,920

in the UK and then very very rapidly

1034

00:46:18,780 --> 00:46:15,609

the idea grew and shared around the

1035

00:46:21,180 --> 00:46:18,790

world so in 2013 7 in the UK the very

1036

00:46:24,180 --> 00:46:21,190

next year that turned up in Sydney in

1037

00:46:25,830 --> 00:46:24,190

Australia in 2014 and then the year

1038

00:46:29,820 --> 00:46:25,840

after that I think we were in something

1039

00:46:32,700 --> 00:46:29,830

like four or five cities and we fast

1040

00:46:35,910 --> 00:46:32,710

forward to 2019 and we are in 19 cities

1041

00:46:38,520 --> 00:46:35,920

around the country so far there are 24

1042

00:46:41,700 --> 00:46:38,530

countries that have a part of the

1043

00:46:45,270 --> 00:46:41,710

festival and there's supposed to be over

1044

00:46:48,240 --> 00:46:45,280

400 and 400 venues and over a thousand

1045

00:46:50,310 --> 00:46:48,250

events it's a huge festival it certainly

1046

00:46:53,490 --> 00:46:50,320

is folks once again I can recommend that

1047

00:46:55,790 --> 00:46:53,500

you visit [pint of science.com](http://pintofscience.com) today you

1048

00:46:59,460 --> 00:46:55,800

do that now to see what's coming up

1049

00:47:01,410 --> 00:46:59,470

later on in May and if you're in near

1050

00:47:02,490 --> 00:47:01,420

one of these events do you have a wealth

1051

00:47:07,470 --> 00:47:02,500

of

1052

00:47:09,810 --> 00:47:07,480

you can have a drink with and you can

1053

00:47:11,970 --> 00:47:09,820

learn a lot more about it well I'm

1054

00:47:14,010 --> 00:47:11,980

looking forward to it immensely I'm

1055

00:47:16,080 --> 00:47:14,020

already perusing which events I will

1056

00:47:17,490 --> 00:47:16,090

attend here in Sydney there are just so

1057

00:47:21,150 --> 00:47:17,500

many to choose from in lots of different

1058

00:47:23,010 --> 00:47:21,160

pubs but for now Tom and Jonah all the

1059

00:47:27,430 --> 00:47:23,020

way from Canberra for pint of science

1060

00:47:37,430 --> 00:47:27,440

thank you very much thank you thank you

1061

00:47:39,840 --> 00:47:37,440

[Music]

1062

00:47:41,670 --> 00:47:39,850

now here are some announcements from

1063

00:47:45,260 --> 00:47:41,680

sceptical events happening around

1064

00:47:48,570 --> 00:47:45,270

Australia on Tuesday the 14th of May

1065

00:47:51,690 --> 00:47:48,580

secret scientists Australian code

1066

00:47:54,120 --> 00:47:51,700

breakers in the second world war this is

1067

00:47:57,720 --> 00:47:54,130

brought to you by social skeptics in

1068

00:48:01,650 --> 00:47:57,730

Canberra from 6 p.m. to 7:30 p.m. with

1069

00:48:04,080 --> 00:48:01,660

guest speaker David Duffy the venue is

1070

00:48:06,420 --> 00:48:04,090

the Belconnen community service in

1071

00:48:09,660 --> 00:48:06,430

Chandler Street Belconnen in the a CT

1072

00:48:11,580 --> 00:48:09,670

and the cost is free during the Second

1073

00:48:14,930 --> 00:48:11,590

World War a motley collection of

1074

00:48:18,060 --> 00:48:14,940

mathematicians classicists linguists and

1075

00:48:20,460 --> 00:48:18,070

radio experts came together in a secret

1076

00:48:24,090 --> 00:48:20,470

organization in brisbane to crack the

1077

00:48:26,940 --> 00:48:24,100

japanese military codes drawing from his

1078

00:48:30,030 --> 00:48:26,950

book the secret code breakers of central

1079

00:48:32,760 --> 00:48:30,040

bureau david duffy will take us into the

1080

00:48:35,670 --> 00:48:32,770

hidden lives of these unsung australian

1081

00:48:38,340 --> 00:48:35,680

heroes and their world of deadly puzzles

1082

00:48:42,710 --> 00:48:38,350

now that sounds like a fascinating talk

1083

00:48:43,830 --> 00:48:42,720

you can find out more by visiting WWE

1084

00:48:47,640 --> 00:48:43,840

skeptics

1085

00:48:49,770 --> 00:48:47,650

org and our friends in the Mordy Alex

1086

00:48:54,120 --> 00:48:49,780

skeptics in the pub the Morty skeptics

1087

00:48:57,450 --> 00:48:54,130

in the pub on the 4th of June have the

1088

00:49:01,500 --> 00:48:57,460

Science Talent Search promoting science

1089

00:49:04,230 --> 00:49:01,510

education for 68 years and that's from

1090

00:49:06,750 --> 00:49:04,240

7:30 p.m. to 9:30 p.m.

1091

00:49:27,359 --> 00:49:06,760

and I will have links to both those

1092

00:49:43,589 --> 00:49:27,369

events in this week's show notes life is

1093

00:49:46,109 --> 00:49:43,599

wild with Michelle Franklin do you

1094

00:49:48,329 --> 00:49:46,119

remember a few years back when a rich

1095

00:49:50,900 --> 00:49:48,339

and famous actor decided to bring his

1096

00:49:53,490 --> 00:49:50,910

beloved pets into Australia on a holiday

1097

00:49:56,040 --> 00:49:53,500

but instead of doing it the legal way by

1098

00:49:57,720 --> 00:49:56,050

putting them through quarantine first he

1099

00:50:01,170 --> 00:49:57,730

decided to just smuggle them in and not

1100

00:50:04,230 --> 00:50:01,180

tell anyone and then do you remember the

1101
00:50:06,750 --> 00:50:04,240
uproar when he was caught first from the

1102
00:50:08,849 --> 00:50:06,760
Australian side when a formally beloved

1103
00:50:11,250 --> 00:50:08,859
actor suddenly became public enemy

1104
00:50:13,650 --> 00:50:11,260
number one and there were hashtags and

1105
00:50:16,770 --> 00:50:13,660
memes and petitions and talk of film

1106
00:50:20,700 --> 00:50:16,780
boycotts fines deportations jail time

1107
00:50:23,609 --> 00:50:20,710
and possibly even euthanasia then in

1108
00:50:25,829 --> 00:50:23,619
response the rest of the world was

1109
00:50:28,710 --> 00:50:25,839
shocked by what they perceived to be a

1110
00:50:30,270 --> 00:50:28,720
ridiculous overreaction because after

1111
00:50:32,070 --> 00:50:30,280
all it was just a couple of pampered

1112
00:50:32,609 --> 00:50:32,080
pets and clearly they're in perfect

1113
00:50:34,620 --> 00:50:32,619

health

1114

00:50:37,320 --> 00:50:34,630

I can understand this point of view and

1115

00:50:39,630 --> 00:50:37,330

I agree that the chances are actually

1116

00:50:41,849 --> 00:50:39,640

fairly slim that these individual dogs

1117

00:50:43,770 --> 00:50:41,859

happen to carry exotic pests and

1118

00:50:47,280 --> 00:50:43,780

diseases that could threaten biosecurity

1119

00:50:49,760 --> 00:50:47,290

in Australia the chance is not zero

1120

00:50:52,410 --> 00:50:49,770

which is why we have quarantine

1121

00:50:54,900 --> 00:50:52,420

Australia is isolated and relatively

1122

00:50:56,310 --> 00:50:54,910

clean we don't have all the pests and

1123

00:50:58,950 --> 00:50:56,320

diseases that are common in some

1124

00:51:01,589 --> 00:50:58,960

countries and we take biosecurity

1125

00:51:05,370 --> 00:51:01,599

seriously because we don't want for

1126

00:51:08,010 --> 00:51:05,380

example rabies this is why we have

1127

00:51:10,200 --> 00:51:08,020

quarantine laws it's not that you can't

1128

00:51:12,720 --> 00:51:10,210

bring your pets here you absolutely can

1129

00:51:14,339 --> 00:51:12,730

you just have to have them checked first

1130

00:51:16,140 --> 00:51:14,349

to make sure that they're not carrying

1131

00:51:17,250 --> 00:51:16,150

anything you are dangerous into the

1132

00:51:19,590 --> 00:51:17,260

country

1133

00:51:22,380 --> 00:51:19,600

so yes the chances of pistol and Boo

1134

00:51:24,720 --> 00:51:22,390

being unknowingly infected and then

1135

00:51:27,120 --> 00:51:24,730

transmitting something like rabies to

1136

00:51:30,030 --> 00:51:27,130

the local population is quite small but

1137

00:51:32,700 --> 00:51:30,040

remember we're completely naive to some

1138

00:51:34,890 --> 00:51:32,710

of these pests and diseases and a single

1139

00:51:36,540 --> 00:51:34,900

animal bringing something in could start

1140

00:51:39,120 --> 00:51:36,550

the next outbreak in our unvaccinated

1141

00:51:41,700 --> 00:51:39,130

and previously unexposed population

1142

00:51:43,620 --> 00:51:41,710

these dogs were born and raised in a

1143

00:51:46,140 --> 00:51:43,630

country that is a known risk for certain

1144

00:51:48,300 --> 00:51:46,150

pests and diseases and while some

1145

00:51:53,550 --> 00:51:48,310

animals are vaccinated the vast majority

1146

00:51:55,770 --> 00:51:53,560

are not let me draw an analogy imagine a

1147

00:51:57,720 --> 00:51:55,780

different celebrity one with a couple of

1148

00:51:59,340 --> 00:51:57,730

children and maybe they leave in nimbin

1149

00:52:02,730 --> 00:51:59,350

or Byron Bay or some other

1150

00:52:05,880 --> 00:52:02,740

anti-vaccination hotspot and maybe their

1151
00:52:08,190 --> 00:52:05,890
kids happen to be unvaccinated they

1152
00:52:10,170 --> 00:52:08,200
might be strong healthy children but

1153
00:52:13,170 --> 00:52:10,180
they pose a certain level of risk just

1154
00:52:15,380 --> 00:52:13,180
by existing unvaccinated in a population

1155
00:52:17,730 --> 00:52:15,390
known to harbor certain diseases

1156
00:52:19,170 --> 00:52:17,740
now imagine that there was a measles

1157
00:52:21,420 --> 00:52:19,180
outbreak at the school that these

1158
00:52:22,640 --> 00:52:21,430
children attend so to protect the lives

1159
00:52:25,140 --> 00:52:22,650
and health of vulnerable people

1160
00:52:27,150 --> 00:52:25,150
quarantine laws were introduced which

1161
00:52:29,520 --> 00:52:27,160
required that anyone coming from no an

1162
00:52:32,099 --> 00:52:29,530
infected areas go through quarantine

1163
00:52:33,840 --> 00:52:32,109

before being allowed to visit the

1164

00:52:37,320 --> 00:52:33,850

leukemia wing at the local Children's

1165

00:52:40,200 --> 00:52:37,330

Hospital in this scenario how would you

1166

00:52:42,120 --> 00:52:40,210

feel about a rich privileged actor just

1167

00:52:44,310 --> 00:52:42,130

bypassing the quarantine system and

1168

00:52:46,349 --> 00:52:44,320

bringing their little vector spawn into

1169

00:52:49,200 --> 00:52:46,359

the hospital for a visit just because

1170

00:52:51,090 --> 00:52:49,210

they wanted to chances are they'll

1171

00:52:53,099 --> 00:52:51,100

probably get away with it because the

1172

00:52:56,310 --> 00:52:53,109

kids are healthy and probably not

1173

00:52:57,750 --> 00:52:56,320

carrying rabies but we have quarantine

1174

00:53:00,060 --> 00:52:57,760

laws in place for a reason and that

1175

00:53:02,160 --> 00:53:00,070

reason is to protect us and our

1176
00:53:05,220 --> 00:53:02,170
environment from infectious diseases and

1177
00:53:07,680 --> 00:53:05,230
pests ignoring quarantine laws like this

1178
00:53:10,020 --> 00:53:07,690
is similar to ignoring medical experts

1179
00:53:12,720 --> 00:53:10,030
on vaccinations it's not a malicious

1180
00:53:15,420 --> 00:53:12,730
action no one does it because they want

1181
00:53:16,890 --> 00:53:15,430
to spread infectious diseases the

1182
00:53:18,870 --> 00:53:16,900
problems arise when people don't

1183
00:53:21,750 --> 00:53:18,880
understand the reason for a rule or a

1184
00:53:23,640 --> 00:53:21,760
recommendation and they assume that if

1185
00:53:26,280 --> 00:53:23,650
they don't understand it it's probably

1186
00:53:28,140 --> 00:53:26,290
not important so in a rich and

1187
00:53:30,600 --> 00:53:28,150
privileged actor failed to understand

1188
00:53:32,310 --> 00:53:30,610

the reasons for our quarantine laws

1189

00:53:34,620 --> 00:53:32,320

he decided that his own assessment of

1190

00:53:37,730 --> 00:53:34,630

the situation was good enough he broke

1191

00:53:40,140 --> 00:53:37,740

the law and threatened our biosecurity

1192

00:53:42,150 --> 00:53:40,150

so next time you encounter a law that

1193

00:53:44,670 --> 00:53:42,160

you don't understand go ahead and

1194

00:53:47,370 --> 00:53:44,680

question it ask what it's for and why

1195

00:53:49,620 --> 00:53:47,380

it's there but don't ignore it based on

1196

00:53:51,660 --> 00:53:49,630

your own lack of understanding because

1197

00:53:54,090 --> 00:53:51,670

chances are that the law was made for a

1198

00:53:58,430 --> 00:53:54,100

reason and what's made with reason

1199

00:53:58,440 --> 00:54:13,270

[Music]

1200

00:54:18,500 --> 00:54:15,800

thank you for listening to the skeptic

1201
00:54:20,599 --> 00:54:18,510
zone now don't forget don't forget later

1202
00:54:24,530 --> 00:54:20,609
on in the year in December we have

1203
00:54:27,109 --> 00:54:24,540
skeptic on 2019 in Melbourne links in

1204
00:54:30,050 --> 00:54:27,119
this week's show notes and so far the

1205
00:54:32,330 --> 00:54:30,060
the big news is that the skeptics guide

1206
00:54:34,580 --> 00:54:32,340
to the universe crew are coming down for

1207
00:54:36,260 --> 00:54:34,590
that as well as susan gerbic from

1208
00:54:38,930 --> 00:54:36,270
guerrilla skepticism with lots more

1209
00:54:41,900 --> 00:54:38,940
special guests and announcements to come

1210
00:54:44,359 --> 00:54:41,910
up in the following months and the link

1211
00:54:47,420 --> 00:54:44,369
is skeptic on.org

1212
00:54:49,160 --> 00:54:47,430
not a you but if you're in northern

1213
00:54:51,650 --> 00:54:49,170

california you don't have to wait that

1214

00:54:54,800 --> 00:54:51,660

long for a fabulous one-day skeptical

1215

00:54:56,810 --> 00:54:54,810

event skeptic owl is Northern

1216

00:54:58,580 --> 00:54:56,820

California's conference on science and

1217

00:55:00,650 --> 00:54:58,590

skepticism a day-long event with

1218

00:55:03,920 --> 00:55:00,660

speakers and discussions on critical

1219

00:55:07,220 --> 00:55:03,930

thinking this year skeptic owl will be

1220

00:55:10,570 --> 00:55:07,230

held on Sunday the 9th of June at the

1221

00:55:13,790 --> 00:55:10,580

Hyatt Regency San Francisco Airport

1222

00:55:17,420 --> 00:55:13,800

registration is now open and you can

1223

00:55:20,390 --> 00:55:17,430

find out more by visiting skeptic Alcon

1224

00:55:22,640 --> 00:55:20,400

that's one word.com and of course there

1225

00:55:25,130 --> 00:55:22,650

will be a link in this week's show notes

1226
00:55:28,220 --> 00:55:25,140
now The Skeptical events coming up later

1227
00:55:30,950 --> 00:55:28,230
on in the year we have Dragon Con in

1228
00:55:33,349 --> 00:55:30,960
Atlanta Georgia I hope to be there to

1229
00:55:36,109 --> 00:55:33,359
take part in The Skeptical track there

1230
00:55:39,740 --> 00:55:36,119
with my good friends Derek Colin dunno

1231
00:55:42,800 --> 00:55:39,750
and dr. Angie Maki and saikhan in Las

1232
00:55:46,400 --> 00:55:42,810
Vegas all these things coming up to see

1233
00:55:49,220 --> 00:55:46,410
out your 2019 and before I go another

1234
00:55:52,160 --> 00:55:49,230
thank you to those people who make the

1235
00:55:54,770 --> 00:55:52,170
skeptic zone possible those people who

1236
00:55:58,280 --> 00:55:54,780
contribute via patreon or PayPal at

1237
00:55:59,900 --> 00:55:58,290
skeptic zone TV five dollars a month is

1238
00:56:02,540 --> 00:55:59,910

something you'll never notice but

1239

00:56:04,849 --> 00:56:02,550

collectively it simply means that the

1240

00:56:07,180 --> 00:56:04,859

skeptic zone podcast can stay in

1241

00:56:09,770 --> 00:56:07,190

production and big thank you to you all

1242

00:56:11,900 --> 00:56:09,780

but for this week this is Richard

1243

00:56:16,150 --> 00:56:11,910

Saunders signing off from Sydney

1244

00:56:21,580 --> 00:56:18,680

you've been listening to the skeptic

1245

00:56:28,280 --> 00:56:21,590

zone podcast please visit our website at

1246

00:56:31,780 --> 00:56:28,290

wwlp.com tax and to access the bat

1247

00:56:34,430 --> 00:56:31,790

catalog of episodes going back to 2008

1248

00:56:37,700 --> 00:56:34,440

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1249

00:56:40,010 --> 00:56:37,710

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1250

00:56:40,900 --> 00:56:40,020

facebook page or leave a review on

1251

00:56:43,580 --> 00:56:40,910

itunes

1252

00:56:46,970 --> 00:56:43,590

you can also support the skeptic zone

1253

00:56:49,690 --> 00:56:46,980

via patreon or paypal the skeptic zone

1254

00:56:52,070 --> 00:56:49,700

podcast is an independent production

1255

00:56:54,200 --> 00:56:52,080

reviews and opinions expressed on the

1256

00:56:56,540 --> 00:56:54,210

skeptic zone are not necessarily those

1257

00:56:58,380 --> 00:56:56,550

of Australian skeptics or any other

1258

00:57:07,849 --> 00:56:58,390

skeptical organization

1259

00:57:17,279 --> 00:57:11,219

yeah I'll do so after a slurp of coffee