

1
00:00:05,990 --> 00:00:13,690
welcome to the skeptic zone the podcast

2
00:00:09,109 --> 00:00:13,689
from Australia for science and reason

3
00:00:21,919 --> 00:00:28,079
hello and welcome to the skeptics our

4
00:00:24,719 --> 00:00:31,379
own episode number 401 for the twenty

5
00:00:28,079 --> 00:00:34,140
sixth of June 2016 Richard Saunders here

6
00:00:31,379 --> 00:00:36,030
with you from a very chilly coldest day

7
00:00:34,140 --> 00:00:39,088
of the year according to the reports a

8
00:00:36,030 --> 00:00:41,158
very chilly Sydney Australia what an

9
00:00:39,088 --> 00:00:43,399
interesting week I've had my friends

10
00:00:41,158 --> 00:00:46,100
what an interesting week I had i sat in

11
00:00:43,399 --> 00:00:48,808
sort of helping out to produce the first

12
00:00:46,100 --> 00:00:50,280
recording of a new podcast and I don't

13
00:00:48,808 --> 00:00:53,070
know what it's called yet mainly because

14
00:00:50,280 --> 00:00:57,118
it hasn't got a name and hosted by my

15
00:00:53,070 --> 00:01:00,359
sisters good on him I can't wait to tell

16
00:00:57,118 --> 00:01:02,158
you more about my sister's podcast and

17
00:01:00,359 --> 00:01:06,150
more or less I think they're going to be

18
00:01:02,158 --> 00:01:07,560
interviewing local women of Note and i'm

19
00:01:06,150 --> 00:01:09,750
sure you'll forgive me when the time

20
00:01:07,560 --> 00:01:12,780
comes that I give that podcast a little

21
00:01:09,750 --> 00:01:14,700
bit of a publicity coming up on the

22
00:01:12,780 --> 00:01:16,859
skeptical zone this week what do we have

23
00:01:14,700 --> 00:01:18,868
for you we have an interview with

24
00:01:16,859 --> 00:01:21,030
Michelle Franklin from the Dow and

25
00:01:18,868 --> 00:01:23,040
skeptics now we spoke to Michelle last

26
00:01:21,030 --> 00:01:26,070
year we're going to catch up with her

27
00:01:23,040 --> 00:01:29,790
see how the group is going and discuss

28
00:01:26,069 --> 00:01:32,519
her recent appearance on radio and I was

29

00:01:29,790 --> 00:01:34,830
delighted that the radio whenever

30
00:01:32,519 --> 00:01:37,530
possible contact local skeptical groups

31
00:01:34,829 --> 00:01:40,439
to ask them about triggered legal topics

32
00:01:37,530 --> 00:01:42,180
and this one is a perennial one up in

33
00:01:40,439 --> 00:01:44,489
the Northern Territory up and down to

34
00:01:42,180 --> 00:01:48,659
the top end of Australia all about a

35
00:01:44,489 --> 00:01:51,839
poltergeist or at least the claims of a

36
00:01:48,659 --> 00:01:54,810
poltergeist poltergeist activity spooky

37
00:01:51,840 --> 00:01:57,630
goings on and will also play a little

38
00:01:54,810 --> 00:01:59,368
clip of Michelle on the radio and I well

39
00:01:57,629 --> 00:02:01,560
done Michele I was very pleased to hear

40
00:01:59,368 --> 00:02:04,618
that coming up after that we have an

41
00:02:01,560 --> 00:02:07,379
interview conducted by Heidi Robertson

42
00:02:04,618 --> 00:02:10,199
the raw skeptic from the Northern Rivers

43
00:02:07,379 --> 00:02:12,539

vaccination supporters Heidi is going to

44

00:02:10,199 --> 00:02:15,149

be speaking to Tracy a member of the

45

00:02:12,539 --> 00:02:17,068

facebook group sub the avian sub the

46

00:02:15,150 --> 00:02:19,170

Australian vaccination network or stop

47

00:02:17,068 --> 00:02:21,329

the Australian vaccination skeptics

48

00:02:19,169 --> 00:02:23,729

networker gets a bit confusing with all

49

00:02:21,330 --> 00:02:26,219

these letters flying around but what

50

00:02:23,729 --> 00:02:29,060

this interview will demonstrate to you

51

00:02:26,218 --> 00:02:33,459

clearly is how a Facebook group of

52

00:02:29,060 --> 00:02:36,550

concerned citizens can really read

53

00:02:33,460 --> 00:02:40,510

Ely and I mean really make a difference

54

00:02:36,550 --> 00:02:43,320

Tracy will explain the impact this

55

00:02:40,509 --> 00:02:46,389

Facebook group has had on the

56

00:02:43,319 --> 00:02:48,699

anti-vaccination crowd an inspiration

57

00:02:46,389 --> 00:02:51,159

and a lesson for us all I think and

58
00:02:48,699 --> 00:02:54,280
following that a look at carl sagan's

59
00:02:51,159 --> 00:02:56,560
baloney detection kit now you may have

60
00:02:54,280 --> 00:02:59,590
heard about this the baloney detection

61
00:02:56,560 --> 00:03:02,170
kit well I'll read out some of the

62
00:02:59,590 --> 00:03:04,629
points Carl Sagan was making to do with

63
00:03:02,169 --> 00:03:07,299
this baloney detection kit I like that

64
00:03:04,629 --> 00:03:09,189
one baloney then to round off the show

65
00:03:07,300 --> 00:03:10,870
guests reporter Kevin Davies from

66
00:03:09,189 --> 00:03:12,639
Canberra and the Australian Capital

67
00:03:10,870 --> 00:03:14,500
Territory we're going from one

68
00:03:12,639 --> 00:03:18,399
Australian territory to another this

69
00:03:14,500 --> 00:03:20,949
episode he will interview dr. will grant

70
00:03:18,400 --> 00:03:22,420
from the center for the public awareness

71
00:03:20,949 --> 00:03:25,810
of science at the Australian National

72
00:03:22,419 --> 00:03:27,549
University oh I wish I could just jump

73
00:03:25,810 --> 00:03:30,039
on the next plane and fly down to visit

74
00:03:27,550 --> 00:03:31,689
some of these talks now I'm very pleased

75
00:03:30,039 --> 00:03:35,650
to announce that the skeptic zone has

76
00:03:31,689 --> 00:03:37,479
now a patreon account if you want to

77
00:03:35,650 --> 00:03:40,210
contribute to the skeptic zone if you

78
00:03:37,479 --> 00:03:44,889
feel like you enjoy the show and you

79
00:03:40,210 --> 00:03:47,020
want to show your support visit [www V](http://www.V)

80
00:03:44,889 --> 00:03:49,929
the link is right up the top and you can

81
00:03:47,020 --> 00:03:53,680
be a patreon member and there are some

82
00:03:49,930 --> 00:03:55,569
rewards oh yes oh yes if you contribute

83
00:03:53,680 --> 00:03:57,520
a certain amount a month over a certain

84
00:03:55,569 --> 00:04:00,280
amount of month i will send you some

85
00:03:57,520 --> 00:04:02,560
goodies some lovely things autograph

86

00:04:00,280 --> 00:04:04,629
things by James Randi and some other

87
00:04:02,560 --> 00:04:07,719
bits and pieces have a look go to

88
00:04:04,629 --> 00:04:09,819
skeptics on TV click the link for being

89
00:04:07,719 --> 00:04:12,789
a patron every cent that you send in

90
00:04:09,819 --> 00:04:15,819
help support the skeptic zone and keeps

91
00:04:12,789 --> 00:04:17,980
it on air or on the internet and in fact

92
00:04:15,819 --> 00:04:20,469
it of course as you know it's only due

93
00:04:17,980 --> 00:04:22,980
to people like you who already chip in

94
00:04:20,470 --> 00:04:27,010
by paypal micropayments that the show

95
00:04:22,980 --> 00:04:29,319
exists at all now it was interesting of

96
00:04:27,009 --> 00:04:33,009
course the see the news the last few

97
00:04:29,319 --> 00:04:38,199
days of the brexit yeah britain deciding

98
00:04:33,009 --> 00:04:40,899
to leave the EU a result I don't think

99
00:04:38,199 --> 00:04:42,789
many people were predicting at all and

100
00:04:40,899 --> 00:04:45,009

this for shadows of story i'll be

101

00:04:42,790 --> 00:04:46,040

covering probably towards the end of the

102

00:04:45,009 --> 00:04:48,110

year

103

00:04:46,040 --> 00:04:51,800

to do with predictions every year I

104

00:04:48,110 --> 00:04:54,650

collect the magazine from the psychics

105

00:04:51,800 --> 00:04:56,920

in Australia which which lists the top

106

00:04:54,649 --> 00:05:01,939

prediction for the coming year by

107

00:04:56,920 --> 00:05:05,350

Australia's top psychics hmm and just

108

00:05:01,939 --> 00:05:09,620

perusing it before with the news of this

109

00:05:05,350 --> 00:05:11,510

split in the EU and the terrible gun

110

00:05:09,620 --> 00:05:14,149

massacre in the United States a few

111

00:05:11,509 --> 00:05:16,159

weeks back oddly enough there neither of

112

00:05:14,149 --> 00:05:18,409

those get a mention can't explain that

113

00:05:16,160 --> 00:05:21,500

well yes I can but we'll get to that

114

00:05:18,410 --> 00:05:23,480

later in the year so far over the last

115
00:05:21,500 --> 00:05:26,509
ten years of me collecting this magazine

116
00:05:23,480 --> 00:05:29,210
and collating their predictions and

117
00:05:26,509 --> 00:05:32,719
analyzing them my estimate so far as

118
00:05:29,209 --> 00:05:34,669
they get about ninety-five percent wrong

119
00:05:32,720 --> 00:05:37,360
well that's enough of me at the moment

120
00:05:34,670 --> 00:05:41,629
I'm gonna run downstairs and have a

121
00:05:37,360 --> 00:05:43,370
bologna sandwich why not with a bit of

122
00:05:41,629 --> 00:05:46,870
mustard well I'm doing that I hope you

123
00:05:43,370 --> 00:05:46,870
enjoy the skeptic zone

124
00:06:07,740 --> 00:06:12,430
joining me now all the way from Darwin

125
00:06:10,449 --> 00:06:14,499
in the Northern Territory right up there

126
00:06:12,430 --> 00:06:16,088
I think it's in the tropics or very

127
00:06:14,499 --> 00:06:17,770
close to the tropics I'm sure Michelle

128
00:06:16,088 --> 00:06:21,098
Franklin can tell me it's Michelle hello

129
00:06:17,769 --> 00:06:23,558
hi hey you going really well is Darwin

130
00:06:21,098 --> 00:06:27,759
actually in the tropics there's a debate

131
00:06:23,559 --> 00:06:30,819
on that oh really the official like the

132
00:06:27,759 --> 00:06:34,509
line of Capricorn that that says north

133
00:06:30,819 --> 00:06:37,778
of here is tropical is south of us so we

134
00:06:34,509 --> 00:06:39,848
are above the tropical line but I also

135
00:06:37,778 --> 00:06:42,939
read a definition that anywhere that

136
00:06:39,848 --> 00:06:45,519
gets below 20 degrees ever is

137
00:06:42,939 --> 00:06:47,819
subtropical and occasionally on a really

138
00:06:45,519 --> 00:06:50,258
cold night we will drop below 20 oh

139
00:06:47,819 --> 00:06:52,270
really cold doesn't happen very often

140
00:06:50,259 --> 00:06:54,699
works in the last two or three days have

141
00:06:52,269 --> 00:06:58,718
dropped below 20 overnight so it's been

142
00:06:54,699 --> 00:07:01,509
pretty cold by our standards mmm down of

143

00:06:58,718 --> 00:07:04,269
course named after Charles Darwin which

144
00:07:01,509 --> 00:07:06,968
is a interesting because as a complete

145
00:07:04,269 --> 00:07:09,038
sidetrack to why we're actually chatting

146
00:07:06,968 --> 00:07:10,538
today I remember and for the benefit of

147
00:07:09,038 --> 00:07:12,308
those listeners around the world who may

148
00:07:10,538 --> 00:07:16,360
not know this because it was a long time

149
00:07:12,309 --> 00:07:18,939
ago Christmas Eve I think 1974 a big

150
00:07:16,360 --> 00:07:21,819
cyclone came through and just devastated

151
00:07:18,939 --> 00:07:24,430
Darwin and there was talk at the time I

152
00:07:21,819 --> 00:07:25,959
seem to remember since that it was that

153
00:07:24,430 --> 00:07:28,180
was because the city was named after

154
00:07:25,959 --> 00:07:31,449
Charles Darwin and God was showing his

155
00:07:28,180 --> 00:07:35,199
displeasure oh okay have you heard

156
00:07:31,449 --> 00:07:37,240
that's ahead yeah they hey you go anyway

157
00:07:35,199 --> 00:07:39,759

we haven't spoken for a while the last

158

00:07:37,240 --> 00:07:42,550

time you're on the skeptic zone was the

159

00:07:39,759 --> 00:07:44,620

30th of August last year when the Darwin

160

00:07:42,550 --> 00:07:47,499

skeptics were sort of getting going how

161

00:07:44,620 --> 00:07:49,658

are the Darwin skeptics doing we're

162

00:07:47,499 --> 00:07:51,969

still getting going we've we've had a

163

00:07:49,658 --> 00:07:54,308

fair bit of activity on the facebook

164

00:07:51,968 --> 00:07:57,848

group which has been good we've got 91

165

00:07:54,309 --> 00:07:59,229

members on facebook now I think more

166

00:07:57,848 --> 00:08:01,420

than half of them are actually in

167

00:07:59,228 --> 00:08:03,279

Darwin's so that's good at this

168

00:08:01,420 --> 00:08:04,750

fair few who aren't but now we've got a

169

00:08:03,279 --> 00:08:07,059

nice little group happening we've got

170

00:08:04,750 --> 00:08:08,410

quite a bit of activity on the group so

171

00:08:07,060 --> 00:08:10,629

we've got lots of people who are

172
00:08:08,410 --> 00:08:12,850
participating in conversations and keen

173
00:08:10,629 --> 00:08:14,560
to to come out and meet up so it's going

174
00:08:12,850 --> 00:08:16,060
really well well I certainly I'm

175
00:08:14,560 --> 00:08:18,009
certainly glad to hear that any any

176
00:08:16,060 --> 00:08:20,709
group any skeptical group around the

177
00:08:18,009 --> 00:08:22,180
world has actually has a presence and is

178
00:08:20,709 --> 00:08:25,329
doing something and not just sitting

179
00:08:22,180 --> 00:08:27,340
back on their warm couch or your cool

180
00:08:25,329 --> 00:08:29,079
couch and Darwin maybe with a cull of

181
00:08:27,339 --> 00:08:30,549
drink and not doing anything but the

182
00:08:29,079 --> 00:08:33,699
other reason I wanted to chat to you

183
00:08:30,550 --> 00:08:36,610
today was you were on ABC radio in

184
00:08:33,700 --> 00:08:39,250
Darwin just last week in fact you've got

185
00:08:36,610 --> 00:08:41,529
a quite a long interview I thought and

186

00:08:39,250 --> 00:08:43,269

it was all about believe it or not and

187

00:08:41,529 --> 00:08:45,299

yes it's still the 21st century and

188

00:08:43,269 --> 00:08:48,549

we're still talking about these things

189

00:08:45,299 --> 00:08:50,740

poltergeists yeah the same old Humpty

190

00:08:48,549 --> 00:08:54,099

Doo poltergeist from from back in the

191

00:08:50,740 --> 00:08:55,870

90s it just won't go away well yeah well

192

00:08:54,100 --> 00:08:57,159

maybe that's the nature of poltergeist I

193

00:08:55,870 --> 00:08:59,289

don't know for the benefit of our

194

00:08:57,159 --> 00:09:02,500

listeners could you give a little recap

195

00:08:59,289 --> 00:09:05,589

of this whole silly story okay so it

196

00:09:02,500 --> 00:09:09,850

started in about nineteen ninety-eight I

197

00:09:05,590 --> 00:09:12,850

think there was a story of five people

198

00:09:09,850 --> 00:09:15,550

living in a little house in Humpty Doo

199

00:09:12,850 --> 00:09:18,580

who were being harassed by a poltergeist

200

00:09:15,549 --> 00:09:20,289
they got attention all over Australia

201
00:09:18,580 --> 00:09:22,210
and I think there was international

202
00:09:20,289 --> 00:09:25,149
interest in this poltergeist that was

203
00:09:22,210 --> 00:09:28,450
throwing rocks around and writing words

204
00:09:25,149 --> 00:09:31,329
in pebbles and basically making a

205
00:09:28,450 --> 00:09:32,320
nuisance of itself nobody was hurt but

206
00:09:31,330 --> 00:09:35,500
there were just lots of strange

207
00:09:32,320 --> 00:09:37,660
occurrences channel 7 came up from Perth

208
00:09:35,500 --> 00:09:39,309
and did a big story I think it was from

209
00:09:37,659 --> 00:09:41,110
Perth yeah I made headlines around

210
00:09:39,309 --> 00:09:43,179
Australia and got them lots of attention

211
00:09:41,110 --> 00:09:46,659
I think they made a bit of money off it

212
00:09:43,179 --> 00:09:48,459
a lot of publicity for the new channel 7

213
00:09:46,659 --> 00:09:50,709
that had just started up in Darwin so

214
00:09:48,460 --> 00:09:53,500

there's wrong theories about motivations

215

00:09:50,710 --> 00:09:54,550

there they completely banned the Darwin

216

00:09:53,500 --> 00:09:57,610

because there was a different Darwin

217

00:09:54,549 --> 00:09:59,439

skeptics back then a group of people who

218

00:09:57,610 --> 00:10:00,879

were keen to investigate but they were

219

00:09:59,440 --> 00:10:03,580

completely barred from participating

220

00:10:00,879 --> 00:10:04,990

until all of it was over so they didn't

221

00:10:03,580 --> 00:10:07,090

actually get to see anything happen

222

00:10:04,990 --> 00:10:11,220

there were lots of news reporters that

223

00:10:07,090 --> 00:10:13,960

came in of newspaper reporters and

224

00:10:11,220 --> 00:10:15,278

various radio stations and things came

225

00:10:13,960 --> 00:10:16,569

in and a lot of them claim

226

00:10:15,278 --> 00:10:19,208

to have seen the strange things

227

00:10:16,568 --> 00:10:21,549

happening the evidence that was actually

228

00:10:19,208 --> 00:10:23,619

documented was fairly sketchy there were

229

00:10:21,549 --> 00:10:26,109
a few videos of some things flying

230

00:10:23,620 --> 00:10:28,120
around the room one video that showed a

231

00:10:26,110 --> 00:10:30,068
woman throwing one of those things which

232

00:10:28,120 --> 00:10:33,129
I think turned it all into a bit of a

233

00:10:30,068 --> 00:10:35,078
joke at the end yeah yeah lots of lots

234

00:10:33,129 --> 00:10:37,058
of first-person accounts of people who

235

00:10:35,078 --> 00:10:40,028
swear it couldn't have been faked of

236

00:10:37,058 --> 00:10:41,499
course and I was really it was really

237

00:10:40,028 --> 00:10:43,120
interesting to hear you being

238

00:10:41,499 --> 00:10:46,839
interviewed just the other week on radio

239

00:10:43,120 --> 00:10:48,789
because they also interviewed I think

240

00:10:46,839 --> 00:10:51,399
Catholic priest but they also

241

00:10:48,789 --> 00:10:52,838
interviewed a so-called researcher and i

242

00:10:51,399 --> 00:10:56,470
used the air quotes here on the camera

243
00:10:52,839 --> 00:10:59,139
to you who was putting the case that how

244
00:10:56,470 --> 00:11:00,850
can these things be faked or there are

245
00:10:59,139 --> 00:11:03,039
so many reports over the years which

246
00:11:00,850 --> 00:11:05,889
he's collided going back centuries how

247
00:11:03,039 --> 00:11:08,318
could all these people be wrong but the

248
00:11:05,889 --> 00:11:11,139
bits i've seen and i remember seeing the

249
00:11:08,318 --> 00:11:12,519
video report at the time on TV it's a

250
00:11:11,139 --> 00:11:15,610
pity we don't have a copy of that it's

251
00:11:12,519 --> 00:11:18,068
very hard to find they were clearly

252
00:11:15,610 --> 00:11:19,419
clearly it was just a joke because as

253
00:11:18,068 --> 00:11:21,729
soon as the camera looked in one

254
00:11:19,419 --> 00:11:24,099
direction something would would fly from

255
00:11:21,730 --> 00:11:26,980
the other where the camera wasn't facing

256
00:11:24,100 --> 00:11:28,808
but I I was very pleased to hear that

257

00:11:26,980 --> 00:11:31,659
they gave you a really good run on the

258
00:11:28,808 --> 00:11:33,308
radio but that must have been an

259
00:11:31,659 --> 00:11:35,438
interesting experience it's not that

260
00:11:33,308 --> 00:11:37,659
easy to be interviewed on radio it was

261
00:11:35,438 --> 00:11:39,610
surprisingly well handled from their

262
00:11:37,659 --> 00:11:41,649
point they approached me they asked from

263
00:11:39,610 --> 00:11:43,449
my perspective and she basically just

264
00:11:41,649 --> 00:11:45,698
asked me the questions let me say my

265
00:11:43,448 --> 00:11:47,979
piece and just played whatever I said

266
00:11:45,698 --> 00:11:50,469
she was very very accommodating and very

267
00:11:47,980 --> 00:11:52,420
interested and I think she wouldn't let

268
00:11:50,470 --> 00:11:54,278
on on the show but I think she was

269
00:11:52,419 --> 00:11:56,229
pretty much on our side because we had a

270
00:11:54,278 --> 00:11:59,078
good laugh about it while we were

271
00:11:56,230 --> 00:12:00,938

talking before and after yeah she seemed

272

00:11:59,078 --> 00:12:02,799

to be enjoying the whole thing she said

273

00:12:00,938 --> 00:12:05,409

it was all just for a bit of fun and and

274

00:12:02,799 --> 00:12:09,188

you know you heard on the show that she

275

00:12:05,409 --> 00:12:11,049

played thriller and Ghostbusters and she

276

00:12:09,188 --> 00:12:13,058

had that funny little intro with the

277

00:12:11,049 --> 00:12:15,609

spooky voice so yeah she was turning it

278

00:12:13,058 --> 00:12:17,438

all into a bit of a fun afternoon so I

279

00:12:15,610 --> 00:12:20,528

think it was handled very well and I

280

00:12:17,438 --> 00:12:22,448

like that she let our father tom was

281

00:12:20,528 --> 00:12:24,850

there was the priest she rolled over a

282

00:12:22,448 --> 00:12:28,120

while and he let Tony come in and do his

283

00:12:24,850 --> 00:12:29,019

long spiel and then yeah she saved me

284

00:12:28,120 --> 00:12:30,879

for last so I thought

285

00:12:29,019 --> 00:12:33,009

that was there was a nice little way to

286
00:12:30,879 --> 00:12:34,419
end it up I thought what we'll do now we

287
00:12:33,009 --> 00:12:36,850
can't play the whole thing but what

288
00:12:34,419 --> 00:12:38,769
we'll do now is I'll play a short clip

289
00:12:36,850 --> 00:12:41,290
from you on the radio program to give

290
00:12:38,769 --> 00:12:44,319
people an idea and I really love the

291
00:12:41,289 --> 00:12:48,219
idea of the Darwin skeptics what exactly

292
00:12:44,320 --> 00:12:51,970
is a skeptic basically somebody who

293
00:12:48,220 --> 00:12:54,040
wants to find the truth so we go into a

294
00:12:51,970 --> 00:12:56,200
situation not knowing what the answer is

295
00:12:54,039 --> 00:12:58,870
and we want to know the truth of the

296
00:12:56,200 --> 00:13:00,910
situation we don't want to confirm any

297
00:12:58,870 --> 00:13:03,070
preconceived beliefs we just want to

298
00:13:00,909 --> 00:13:05,289
know what's actually happening so we

299
00:13:03,070 --> 00:13:08,410
look for evidence and we're open to the

300
00:13:05,289 --> 00:13:12,219
possibility that whatever we think is

301
00:13:08,409 --> 00:13:14,230
wrong we have to accept that in our

302
00:13:12,220 --> 00:13:17,560
lives at least some of the time we are

303
00:13:14,230 --> 00:13:20,950
going to be wrong so a skeptics goal is

304
00:13:17,559 --> 00:13:24,009
to be less wrong or to be wrong less

305
00:13:20,950 --> 00:13:26,770
often so to do that you need to learn

306
00:13:24,009 --> 00:13:28,539
how to recognize when you are wrong so

307
00:13:26,769 --> 00:13:30,279
that you don't become dogmatic about

308
00:13:28,539 --> 00:13:32,559
something that you believe that you

309
00:13:30,279 --> 00:13:35,110
don't start dismissing evidence and and

310
00:13:32,559 --> 00:13:37,719
holding on to some preconceived notion

311
00:13:35,110 --> 00:13:40,000
you have to always look at the evidence

312
00:13:37,720 --> 00:13:42,340
find what what the evidence actually

313
00:13:40,000 --> 00:13:46,389
says and be willing to change your mind

314

00:13:42,340 --> 00:13:48,340
when that evidence shows that probably

315
00:13:46,389 --> 00:13:49,659
the ghosts aren't real you have to sort

316
00:13:48,340 --> 00:13:53,350
of change your view and say alright

317
00:13:49,659 --> 00:13:55,929
whatever I saw probably wasn't or if you

318
00:13:53,350 --> 00:13:59,230
find some really irrefutable evidence

319
00:13:55,929 --> 00:14:00,339
that shows that ghosts are real then you

320
00:13:59,230 --> 00:14:02,889
have to be willing to change your mind

321
00:14:00,340 --> 00:14:04,629
and say that that is what happened so it

322
00:14:02,889 --> 00:14:06,819
just basically means you have to go with

323
00:14:04,629 --> 00:14:10,389
whatever the evidence shows have you

324
00:14:06,820 --> 00:14:12,879
always been a skeptic I've not always

325
00:14:10,389 --> 00:14:14,889
known what a skeptic was when when I was

326
00:14:12,879 --> 00:14:16,360
younger I always thought skeptic and

327
00:14:14,889 --> 00:14:18,730
cynic with the same thing which

328
00:14:16,360 --> 00:14:22,029

obviously they're not cynic is somebody

329

00:14:18,730 --> 00:14:23,950

who wants things to be not true and one

330

00:14:22,029 --> 00:14:25,449

wants to prove things wrong and that's

331

00:14:23,950 --> 00:14:27,520

not what a skeptic is but I think I

332

00:14:25,450 --> 00:14:29,850

always have been because I've always

333

00:14:27,519 --> 00:14:31,629

otherwise love science and I've always

334

00:14:29,850 --> 00:14:33,519

questioned things and I've always

335

00:14:31,629 --> 00:14:35,830

wondered about things there was a time

336

00:14:33,519 --> 00:14:37,720

when I believed in you know the aliens

337

00:14:35,830 --> 00:14:41,470

built the pyramids on Mars and things

338

00:14:37,720 --> 00:14:43,059

like that as soon as I saw evidence and

339

00:14:41,470 --> 00:14:45,519

read you know the reason I

340

00:14:43,058 --> 00:14:47,048

for and against I always changed my mind

341

00:14:45,519 --> 00:14:48,668

so I think that means I always was a

342

00:14:47,048 --> 00:14:50,348

skeptic I just didn't always has the

343
00:14:48,668 --> 00:14:53,019
evidence at hand when I used to believe

344
00:14:50,349 --> 00:14:54,849
strange things yes well I thought you

345
00:14:53,019 --> 00:14:57,219
came across very well as as I was

346
00:14:54,849 --> 00:15:00,189
listening in on line here in Sydney when

347
00:14:57,219 --> 00:15:02,319
you're on Darwin radio and I heard her

348
00:15:00,188 --> 00:15:05,048
read out your tweet that was very well

349
00:15:02,318 --> 00:15:06,878
placed that's right well it was a

350
00:15:05,048 --> 00:15:10,298
facebook i was commenting as I was

351
00:15:06,879 --> 00:15:12,188
listening and my comment when the

352
00:15:10,298 --> 00:15:16,178
paranormal guy was speaking I think my

353
00:15:12,188 --> 00:15:18,548
comment was things just don't fly stones

354
00:15:16,178 --> 00:15:20,499
pebbles pens whatever just don't fly

355
00:15:18,548 --> 00:15:23,379
around rooms of their own accord that

356
00:15:20,499 --> 00:15:26,019
you have to look at the the physics of

357
00:15:23,379 --> 00:15:27,639
it assuming something has flown across a

358
00:15:26,019 --> 00:15:30,999
room where there must be a force acting

359
00:15:27,639 --> 00:15:32,918
upon it I like to do that bring in the

360
00:15:30,999 --> 00:15:34,479
physics was somebody blowing hard was

361
00:15:32,918 --> 00:15:37,478
there somebody throwing it what other

362
00:15:34,479 --> 00:15:38,949
force can can describe something flying

363
00:15:37,479 --> 00:15:40,959
around the room we just can't say a

364
00:15:38,948 --> 00:15:42,758
spirit movement you mentioned in your

365
00:15:40,958 --> 00:15:46,448
tweet and she then spoke about the

366
00:15:42,759 --> 00:15:49,209
theory about placing things on ceiling

367
00:15:46,448 --> 00:15:51,758
fans and then as the fan speed up and

368
00:15:49,208 --> 00:15:55,478
they pick up momentum the items fly off

369
00:15:51,759 --> 00:15:58,119
but I was with a friend at the time

370
00:15:55,479 --> 00:15:59,739
listening to the radio show and he lived

371

00:15:58,119 --> 00:16:01,928
in Darwin at the time he lived in humpty

372
00:15:59,739 --> 00:16:04,119
doo at the time so he remembers it quite

373
00:16:01,928 --> 00:16:06,698
well and he said the conversation at the

374
00:16:04,119 --> 00:16:08,798
time was that they had put mud on the

375
00:16:06,698 --> 00:16:10,899
top of the ceiling fans and anchored the

376
00:16:08,798 --> 00:16:14,828
object with the mud and then as the mud

377
00:16:10,899 --> 00:16:17,558
dried out it lost its stickiness yeah

378
00:16:14,828 --> 00:16:19,868
that's why they would come off hours

379
00:16:17,558 --> 00:16:21,578
after and there was nobody there at the

380
00:16:19,869 --> 00:16:24,928
time which sounds like a very reasonable

381
00:16:21,578 --> 00:16:28,088
way to have done it yes I remember that

382
00:16:24,928 --> 00:16:31,478
theory at the time over what I heard was

383
00:16:28,089 --> 00:16:34,119
it was possibly sticky tape and things

384
00:16:31,479 --> 00:16:36,009
were tape just loosely on and as the fan

385
00:16:34,119 --> 00:16:37,449

picked up momentum the rocks and so

386

00:16:36,009 --> 00:16:40,089

forth would be would be flung off

387

00:16:37,448 --> 00:16:42,968

thinking about it now what a dangerous

388

00:16:40,089 --> 00:16:45,489

thing to do because I reckon having

389

00:16:42,969 --> 00:16:46,629

rocks fly off a fat who knows where

390

00:16:45,489 --> 00:16:49,119

they're going to do or what they're

391

00:16:46,629 --> 00:16:51,639

going to hit so that seems pretty pretty

392

00:16:49,119 --> 00:16:54,489

silly that works in in their favor as

393

00:16:51,639 --> 00:16:56,830

well like if I was that woman who who

394

00:16:54,489 --> 00:16:59,560

was there all the time with you

395

00:16:56,830 --> 00:17:01,180

a toddler in the house I wouldn't be

396

00:16:59,559 --> 00:17:03,759

sticking knives to fans and letting my

397

00:17:01,179 --> 00:17:06,159

toddler wander around in the house it

398

00:17:03,759 --> 00:17:09,609

makes me wonder if yeah maybe it wasn't

399

00:17:06,160 --> 00:17:10,930

her maybe I don't know it well again yes

400
00:17:09,609 --> 00:17:13,000
of course there's a lot still a lot of

401
00:17:10,930 --> 00:17:14,529
mystery revolving around it but but then

402
00:17:13,000 --> 00:17:15,819
again if I honestly believe there was a

403
00:17:14,529 --> 00:17:18,338
ghost in the house i probably wouldn't

404
00:17:15,819 --> 00:17:20,950
keep my tongue very though that's right

405
00:17:18,338 --> 00:17:22,899
but it's sort of now part of the

406
00:17:20,950 --> 00:17:25,150
Northern Territory folklore isn't at the

407
00:17:22,900 --> 00:17:27,459
Humpty Doo poltergeist and it's I guess

408
00:17:25,150 --> 00:17:29,650
it's looked fondly like the Loch Ness

409
00:17:27,459 --> 00:17:31,779
monster I don't think too many people

410
00:17:29,650 --> 00:17:33,190
take it seriously although the the

411
00:17:31,779 --> 00:17:35,470
paranormal researcher who was

412
00:17:33,190 --> 00:17:37,809
interviewed seemed to take it very

413
00:17:35,470 --> 00:17:39,250
seriously indeed he was very convinced

414
00:17:37,809 --> 00:17:40,720
that he was right and very convinced

415
00:17:39,250 --> 00:17:42,640
that all the evidence that he saw worked

416
00:17:40,720 --> 00:17:44,079
in his favor like that yeah the fact

417
00:17:42,640 --> 00:17:47,080
that the cameras didn't catch anything

418
00:17:44,079 --> 00:17:50,529
was proof that ghosts don't like cameras

419
00:17:47,079 --> 00:17:52,720
to make I know skeptics I've heard that

420
00:17:50,529 --> 00:17:54,789
I've heard that argument before at a

421
00:17:52,720 --> 00:17:56,559
paranormal convention I went to a couple

422
00:17:54,789 --> 00:17:58,569
years ago they said and it's interesting

423
00:17:56,559 --> 00:18:00,759
to note the poltergeists didn't operate

424
00:17:58,569 --> 00:18:03,220
in rooms with cameras I'm thinking you

425
00:18:00,759 --> 00:18:05,470
have to be kidding me he said it was

426
00:18:03,220 --> 00:18:07,150
almost like the Potter gus was playing a

427
00:18:05,470 --> 00:18:08,829
trick on us every time we pointed a

428

00:18:07,150 --> 00:18:10,210
camera in one direction the object would

429
00:18:08,829 --> 00:18:11,919
come from the other one another big

430
00:18:10,210 --> 00:18:13,840
there you go it must be hold true

431
00:18:11,920 --> 00:18:16,990
somebody was playing a trick on you and

432
00:18:13,839 --> 00:18:18,309
I'm sure it was the poltergeist well

433
00:18:16,990 --> 00:18:21,099
Michelle listen thank you very much for

434
00:18:18,309 --> 00:18:22,509
this little update and well done going

435
00:18:21,099 --> 00:18:23,919
on the radio I and I thought you did

436
00:18:22,509 --> 00:18:26,859
very well because you brought up things

437
00:18:23,920 --> 00:18:30,400
like Occam's razor and Hitchens razor to

438
00:18:26,859 --> 00:18:33,639
talk to the people so I hope they invite

439
00:18:30,400 --> 00:18:35,769
you back when I finished on the radio I

440
00:18:33,640 --> 00:18:37,630
told a few of my friends to listen in I

441
00:18:35,769 --> 00:18:39,910
texted a bunch of people and said I hate

442
00:18:37,630 --> 00:18:42,430

rune in it three o'clock i'm going to be

443

00:18:39,910 --> 00:18:45,160

on the radio and a few of my friends

444

00:18:42,430 --> 00:18:46,509

didn't realize that I was a skeptic it's

445

00:18:45,160 --> 00:18:48,220

just not something that we talked about

446

00:18:46,509 --> 00:18:49,779

before so they few of them had a bit of

447

00:18:48,220 --> 00:18:51,430

a laugh about it and a few of them said

448

00:18:49,779 --> 00:18:53,920

I'll don't come to my house you won't be

449

00:18:51,430 --> 00:18:55,450

a skeptic anymore all right well I'd

450

00:18:53,920 --> 00:18:58,330

like to come to your house I mean what

451

00:18:55,450 --> 00:18:59,769

you got but one in particular said she

452

00:18:58,329 --> 00:19:02,019

listened to the show as she sat down

453

00:18:59,769 --> 00:19:03,639

with her notebook and she wrote down all

454

00:19:02,019 --> 00:19:07,240

of these little things she was going to

455

00:19:03,640 --> 00:19:09,580

tell me and as father Tollman as Tony

456

00:19:07,240 --> 00:19:10,690

the the author were talking she was

457
00:19:09,579 --> 00:19:12,909
making all these notes

458
00:19:10,690 --> 00:19:17,080
things to tell me and then when she got

459
00:19:12,910 --> 00:19:19,300
to the bit where I was on and i gave her

460
00:19:17,079 --> 00:19:20,919
a couple of tools so i gave her Occam's

461
00:19:19,299 --> 00:19:23,289
razor and then I gave her Hitchens rays

462
00:19:20,920 --> 00:19:25,810
and I said this is how you assess what

463
00:19:23,289 --> 00:19:27,670
you've seen or assess the claims that

464
00:19:25,809 --> 00:19:29,139
have been made and she she thought about

465
00:19:27,670 --> 00:19:31,029
them and she said there was nothing on

466
00:19:29,140 --> 00:19:33,490
her list that was worth telling me

467
00:19:31,029 --> 00:19:35,559
because Nolan past those two tests oh

468
00:19:33,490 --> 00:19:37,329
boy I thought that was a true she said

469
00:19:35,559 --> 00:19:38,829
she's going to go back and and have a

470
00:19:37,329 --> 00:19:40,689
look at these things again and see if

471
00:19:38,829 --> 00:19:42,519
she can find a better way to present

472
00:19:40,690 --> 00:19:45,070
them to me so I thought that was there

473
00:19:42,519 --> 00:19:46,990
was a nice little win there but that's

474
00:19:45,069 --> 00:19:49,599
great at any time the skeptic can get on

475
00:19:46,990 --> 00:19:51,519
the radio and put the sceptical point of

476
00:19:49,599 --> 00:19:53,559
views to a wider audience i think it's

477
00:19:51,519 --> 00:19:55,389
it's well worth it and again i thought i

478
00:19:53,559 --> 00:19:58,389
thought you came across very well it's a

479
00:19:55,390 --> 00:20:01,210
pity folks we can't we can't play you

480
00:19:58,390 --> 00:20:02,650
the whole interview but Michelle once

481
00:20:01,210 --> 00:20:05,319
again thank you very much and how can

482
00:20:02,650 --> 00:20:07,150
people contact the Darwin skeptics our

483
00:20:05,319 --> 00:20:10,990
best way is through our Facebook groups

484
00:20:07,150 --> 00:20:13,450
so we have a just a group called Darwin

485

00:20:10,990 --> 00:20:15,099
skeptics we've got 91 members at the

486
00:20:13,450 --> 00:20:17,380
moment but a lot of them aren't actually

487
00:20:15,099 --> 00:20:19,179
in Darwin so anybody who wants to join

488
00:20:17,380 --> 00:20:21,400
in and participate we'd love to have you

489
00:20:19,180 --> 00:20:23,289
there and if anybody's passing through

490
00:20:21,400 --> 00:20:25,450
Darwin or planning to be here any time

491
00:20:23,289 --> 00:20:27,899
let us know and we can plan a little

492
00:20:25,450 --> 00:20:30,910
meet up and and get you involved as well

493
00:20:27,900 --> 00:20:32,500
that's fantastic well all the best again

494
00:20:30,910 --> 00:20:34,360
I hope we can catch up and have a chat

495
00:20:32,500 --> 00:20:35,829
soon with more good news but for now

496
00:20:34,359 --> 00:20:37,629
Michelle Franklin all the way from

497
00:20:35,829 --> 00:20:39,609
Darwin in the Northern Territory folks

498
00:20:37,630 --> 00:20:41,590
google it on google earth or google maps

499
00:20:39,609 --> 00:20:45,179

you can see where that is thank you very

500

00:20:41,589 --> 00:20:45,179

much thank you

501

00:20:58,269 --> 00:21:03,829

greetings listeners it's me captain

502

00:21:01,460 --> 00:21:06,470

disillusion on my youtube channel called

503

00:21:03,829 --> 00:21:08,689

captain disillusion aye captain

504

00:21:06,470 --> 00:21:10,940

disillusion analyzed viral videos of the

505

00:21:08,690 --> 00:21:13,250

strange and unbelievable I explain how

506

00:21:10,940 --> 00:21:15,259

interframe video compression 3d motion

507

00:21:13,250 --> 00:21:17,720

tracking and stock the effects elements

508

00:21:15,259 --> 00:21:20,029

prove that Justin Bieber is not a secret

509

00:21:17,720 --> 00:21:21,860

reptilian alien that those videos of

510

00:21:20,029 --> 00:21:23,869

ghost cars are just unintentional

511

00:21:21,859 --> 00:21:25,579

optical illusions and that lightning did

512

00:21:23,869 --> 00:21:27,319

not strike a few feet away from a girl

513

00:21:25,579 --> 00:21:30,139

on a beach as we saw on the news I'm

514
00:21:27,319 --> 00:21:32,289
real fun at parties my best friend is a

515
00:21:30,140 --> 00:21:34,340
lens flare eat a dimmer switch

516
00:21:32,289 --> 00:21:36,289
disillusion I do know other people

517
00:21:34,339 --> 00:21:38,899
sometimes they even show up in my videos

518
00:21:36,289 --> 00:21:41,299
people like skepticism is grandpa james

519
00:21:38,900 --> 00:21:43,370
randi sirve de Soleil Acrobat Erica

520
00:21:41,299 --> 00:21:45,529
Lynn's weight loss enthusiast Penn

521
00:21:43,369 --> 00:21:47,659
Jillette and the actual Beekman from

522
00:21:45,529 --> 00:21:49,700
Beakman's world I hope you'll check out

523
00:21:47,660 --> 00:21:51,860
my adventures interact with me in a

524
00:21:49,700 --> 00:21:54,650
platonic way and even consider becoming

525
00:21:51,859 --> 00:21:57,229
a patron of my work you can do all that

526
00:21:54,650 --> 00:22:00,640
and more on youtube or at captain

527
00:21:57,230 --> 00:22:00,640
disillusion calm

528
00:22:07,069 --> 00:22:20,490
it's the raw skeptic report with Heidi

529
00:22:11,009 --> 00:22:22,500
Robertson hello everyone listeners of

530
00:22:20,490 --> 00:22:25,319
the skeptic zone would be quite familiar

531
00:22:22,500 --> 00:22:29,220
with the AVS N or the Australian

532
00:22:25,319 --> 00:22:32,369
vaccination skeptics network and also s

533
00:22:29,220 --> 00:22:34,559
avian stop the Australian vaccination

534
00:22:32,369 --> 00:22:38,669
network a Facebook group dedicated to

535
00:22:34,559 --> 00:22:41,879
you guessed it stopping the AVS n today

536
00:22:38,670 --> 00:22:45,380
I'm here via Skype with Tracy who is a

537
00:22:41,880 --> 00:22:49,400
member of s avian and has been very

538
00:22:45,380 --> 00:22:51,750
active in her advocacy for vaccination

539
00:22:49,400 --> 00:22:54,660
firstly Tracy can you tell the listeners

540
00:22:51,750 --> 00:22:57,869
a bit about yourself and how you came to

541
00:22:54,660 --> 00:23:00,300
be involved in vaccine advocacy why is

542

00:22:57,869 --> 00:23:03,149
it so important to you well I work with

543
00:23:00,299 --> 00:23:05,519
children so immunization is an important

544
00:23:03,150 --> 00:23:07,500
factor in that in that I prefer to work

545
00:23:05,519 --> 00:23:11,400
was immunized children and I immunize

546
00:23:07,500 --> 00:23:15,319
myself in order to protect them and in

547
00:23:11,400 --> 00:23:19,259
about 2011 to probably two years after

548
00:23:15,319 --> 00:23:21,599
stop the avian was formed I stumbled

549
00:23:19,259 --> 00:23:24,990
across the idea that people are against

550
00:23:21,599 --> 00:23:28,439
vaccination and that led me to stop the

551
00:23:24,990 --> 00:23:30,299
avian and I've been getting involved in

552
00:23:28,440 --> 00:23:33,120
learning about it all ever since I've

553
00:23:30,299 --> 00:23:34,740
actually it's inspired me to go to uni

554
00:23:33,119 --> 00:23:37,319
and I'm studying a public health degree

555
00:23:34,740 --> 00:23:39,000
as a result now it's become a real

556
00:23:37,319 --> 00:23:41,279

passion and a real interest and

557

00:23:39,000 --> 00:23:43,500

something that I do as much as I can

558

00:23:41,279 --> 00:23:45,389

you've had good five years of being

559

00:23:43,500 --> 00:23:46,920

active with the advocacy that you've

560

00:23:45,390 --> 00:23:50,280

been doing and you are actually

561

00:23:46,920 --> 00:23:53,400

representing s avian last week at the

562

00:23:50,279 --> 00:23:55,559

15th national immunization conference

563

00:23:53,400 --> 00:23:58,080

believe you presented to poster

564

00:23:55,559 --> 00:23:59,940

presentations there so as far as the

565

00:23:58,079 --> 00:24:02,009

first one goes what was the title of

566

00:23:59,940 --> 00:24:04,200

that and who were the authors on it the

567

00:24:02,009 --> 00:24:05,970

title with evidence suggests the fall of

568

00:24:04,200 --> 00:24:08,610

the professional anti-vaccination

569

00:24:05,970 --> 00:24:11,460

movement in Australia that was put

570

00:24:08,609 --> 00:24:13,119

together by myself Joanne benim ooh

571
00:24:11,460 --> 00:24:16,750
Rachel Dunlop

572
00:24:13,119 --> 00:24:20,709
and cody and david hawks and that talked

573
00:24:16,750 --> 00:24:25,808
about the impact that s avian has had on

574
00:24:20,710 --> 00:24:28,569
the finances of the AVS in all these

575
00:24:25,808 --> 00:24:31,599
letters it gets a bit tricky so as far

576
00:24:28,569 --> 00:24:33,549
as the finances go with AVS n where were

577
00:24:31,599 --> 00:24:35,049
they getting their money from and and

578
00:24:33,549 --> 00:24:37,299
how much were they bringing in I

579
00:24:35,049 --> 00:24:40,649
probably had three main streams of

580
00:24:37,299 --> 00:24:44,139
income one was membership which

581
00:24:40,650 --> 00:24:45,880
chiropractors were a huge membership

582
00:24:44,140 --> 00:24:47,790
base within professional memberships

583
00:24:45,880 --> 00:24:52,030
that were quite expensive than other

584
00:24:47,789 --> 00:24:54,759
alternative medicine practitioners so

585
00:24:52,029 --> 00:24:57,940
cypher membership there was donations

586
00:24:54,759 --> 00:25:01,000
they quite often ran fundraising drives

587
00:24:57,940 --> 00:25:02,860
for certain issues that they never spent

588
00:25:01,000 --> 00:25:04,990
the money on those issues anyway but it

589
00:25:02,859 --> 00:25:07,269
two of the bank account that they were

590
00:25:04,990 --> 00:25:09,670
selling a magazine as well which is now

591
00:25:07,269 --> 00:25:11,500
defunct and people who have paid for

592
00:25:09,670 --> 00:25:13,779
that main event have an ended up with

593
00:25:11,500 --> 00:25:16,390
their magazines in the end so that was

594
00:25:13,779 --> 00:25:19,839
in Maine three streams of income I think

595
00:25:16,390 --> 00:25:22,840
and in terms of the impact of stop the

596
00:25:19,839 --> 00:25:25,720
avian on that there's been over the time

597
00:25:22,839 --> 00:25:29,709
stop the avian has been working on them

598
00:25:25,720 --> 00:25:32,170
the income has decreased 92% so I guess

599

00:25:29,710 --> 00:25:35,220
to put that into context then we use

600
00:25:32,170 --> 00:25:39,670
where they were making about 280 to

601
00:25:35,220 --> 00:25:42,279
300,000 dollars a year Wow yeah and the

602
00:25:39,670 --> 00:25:45,759
last financial records were able to get

603
00:25:42,279 --> 00:25:47,319
a hold of for 2014 they were down to

604
00:25:45,759 --> 00:25:50,079
twenty one thousand dollars for that

605
00:25:47,319 --> 00:25:52,089
year so that's quite an impact that's a

606
00:25:50,079 --> 00:25:55,539
big impact how did you measure that and

607
00:25:52,089 --> 00:25:58,359
how did stop the avian achieve that

608
00:25:55,539 --> 00:26:00,129
result I'm really grateful to Dave Hall

609
00:25:58,359 --> 00:26:02,799
who did all the analysis of that

610
00:26:00,130 --> 00:26:06,610
throughout the years through Freedom of

611
00:26:02,799 --> 00:26:08,950
Information requests because a BSN or

612
00:26:06,609 --> 00:26:11,079
unincorporated association we were able

613
00:26:08,950 --> 00:26:14,140

to get their financial records to

614

00:26:11,079 --> 00:26:16,949

freedom of information so each year

615

00:26:14,140 --> 00:26:20,440

after their financial records are lodged

616

00:26:16,950 --> 00:26:21,289

someone makes an application to get them

617

00:26:20,440 --> 00:26:24,049

and then we

618

00:26:21,289 --> 00:26:27,079

so that's how we got all the details and

619

00:26:24,049 --> 00:26:29,869

then Dave went through and analyzed it

620

00:26:27,079 --> 00:26:32,389

or and he figured out the the ninety two

621

00:26:29,869 --> 00:26:36,039

percent decrease figure I guess

622

00:26:32,390 --> 00:26:38,840

essentially it's been achieved by

623

00:26:36,039 --> 00:26:41,809

countering their misinformation making

624

00:26:38,839 --> 00:26:44,329

the public aware of the dishonesty and

625

00:26:41,809 --> 00:26:46,369

their financial dealings pushing them

626

00:26:44,329 --> 00:26:49,549

out of the popular media and stuff like

627

00:26:46,369 --> 00:26:51,169

that as well reducing their impact you

628
00:26:49,549 --> 00:26:53,569
were saying before that some of the

629
00:26:51,170 --> 00:26:56,509
donations they were asking for donations

630
00:26:53,569 --> 00:26:59,359
and those some of those projects never

631
00:26:56,509 --> 00:27:01,549
sort of came to fruition for the people

632
00:26:59,359 --> 00:27:03,259
that donated has there been any reaction

633
00:27:01,549 --> 00:27:07,159
from the members about where their money

634
00:27:03,259 --> 00:27:10,670
has gone no I don't seem to care they're

635
00:27:07,160 --> 00:27:12,290
happy to hand their money over and look

636
00:27:10,670 --> 00:27:14,600
I don't know whether they get distracted

637
00:27:12,289 --> 00:27:16,399
or what I don't care where the money

638
00:27:14,599 --> 00:27:19,000
ends up in the end they just feel like

639
00:27:16,400 --> 00:27:21,830
they're giving it to a worthy cause but

640
00:27:19,000 --> 00:27:24,259
i'm not aware that there's ever been any

641
00:27:21,829 --> 00:27:26,839
pushback from the members about where

642
00:27:24,259 --> 00:27:28,640
the income goes i guess that's a little

643
00:27:26,839 --> 00:27:30,529
bit surprising i think we're just

644
00:27:28,640 --> 00:27:33,560
speaking for myself if i was to donate

645
00:27:30,529 --> 00:27:36,079
money to a specific cause that i felt

646
00:27:33,559 --> 00:27:38,179
passionately about I'd want to know that

647
00:27:36,079 --> 00:27:42,069
my money was going where I was assured

648
00:27:38,180 --> 00:27:44,570
that it was going to go yes over our

649
00:27:42,069 --> 00:27:46,309
well there you go not sure we can

650
00:27:44,569 --> 00:27:48,439
explain that or what else was in that

651
00:27:46,309 --> 00:27:51,019
first poster presentation I think you

652
00:27:48,440 --> 00:27:53,029
covered the stop Tenpenny campaign as

653
00:27:51,019 --> 00:27:55,849
well is that right in that first placer

654
00:27:53,029 --> 00:27:58,279
yeah we did cover the stock Tenpenny

655
00:27:55,849 --> 00:28:00,649
campaign just the reminders of who

656

00:27:58,279 --> 00:28:03,769
sherry Tenpenny is for those who may not

657
00:28:00,650 --> 00:28:05,750
know yes and why there was a campaign to

658
00:28:03,769 --> 00:28:08,960
stop her from coming here to Australia

659
00:28:05,750 --> 00:28:11,029
yes so she's a professional anti-vaccine

660
00:28:08,960 --> 00:28:12,890
campaigner in america and she's quite

661
00:28:11,029 --> 00:28:15,769
popular over there and has a lot of

662
00:28:12,890 --> 00:28:18,530
followers stephanie messenger who is an

663
00:28:15,769 --> 00:28:20,349
australian anti-vaccine campaigner that

664
00:28:18,529 --> 00:28:23,420
some people might be familiar with

665
00:28:20,349 --> 00:28:26,209
organized with cherry temp any to come

666
00:28:23,420 --> 00:28:29,539
over here and do a tour that was

667
00:28:26,210 --> 00:28:31,809
seminars and dinners and things is

668
00:28:29,539 --> 00:28:33,250
stephanie messenger was the author of

669
00:28:31,809 --> 00:28:36,190
melanie's ma

670
00:28:33,250 --> 00:28:38,890

Alice measles yes I word got out that

671

00:28:36,190 --> 00:28:42,250

there was a tour planned the usual

672

00:28:38,890 --> 00:28:45,009

suspects like stop the avian folks and

673

00:28:42,250 --> 00:28:48,819

some skeptics and that swung into action

674

00:28:45,009 --> 00:28:51,849

and started the stop Tenpenny campaign

675

00:28:48,819 --> 00:28:54,309

and what was really great to see about

676

00:28:51,849 --> 00:28:56,259

that campaign is just the general public

677

00:28:54,309 --> 00:28:59,230

jumped on board and got involved people

678

00:28:56,259 --> 00:29:01,960

that we'd never heard of before that

679

00:28:59,230 --> 00:29:04,390

weren't involved with what would be

680

00:29:01,960 --> 00:29:06,850

doing for so long general community

681

00:29:04,390 --> 00:29:08,410

members stood up and said no we're not

682

00:29:06,849 --> 00:29:11,169

going to take this you're not welcome

683

00:29:08,410 --> 00:29:15,690

here to spread your misinformation and

684

00:29:11,170 --> 00:29:18,490

it took about twenty two days or so from

685
00:29:15,690 --> 00:29:20,200
from the news getting out to the point

686
00:29:18,490 --> 00:29:23,470
where the tour was canceled is that

687
00:29:20,200 --> 00:29:26,170
right I knew a matter of weeks that's

688
00:29:23,470 --> 00:29:27,610
amazing and as far as the other the

689
00:29:26,170 --> 00:29:30,070
other poster that you present it

690
00:29:27,609 --> 00:29:34,119
believed that was about false balance in

691
00:29:30,069 --> 00:29:36,460
the media can you firstly explain for

692
00:29:34,119 --> 00:29:39,099
listeners who may not know what is false

693
00:29:36,460 --> 00:29:41,650
balance well the defaults balance is

694
00:29:39,099 --> 00:29:43,389
something that Rachel Dunlop has taken a

695
00:29:41,650 --> 00:29:46,360
real interest in and being really

696
00:29:43,390 --> 00:29:49,030
proactive in and and she's I guess

697
00:29:46,359 --> 00:29:52,029
taught everyone else to follow her lead

698
00:29:49,029 --> 00:29:54,789
on this but false balance it's it's a

699
00:29:52,029 --> 00:29:56,799
media bias where journalists if they're

700
00:29:54,789 --> 00:29:59,769
doing a story they feel that they need

701
00:29:56,799 --> 00:30:02,619
to have both sides of that story

702
00:29:59,769 --> 00:30:05,349
presented and the thing is with things

703
00:30:02,619 --> 00:30:08,289
like immunization as we said before

704
00:30:05,349 --> 00:30:11,349
there's no debate there's no other side

705
00:30:08,289 --> 00:30:14,680
of the story there's really no no reason

706
00:30:11,349 --> 00:30:17,889
for having an anti-vaccine view in a

707
00:30:14,680 --> 00:30:20,529
vaccine story that used to happen quite

708
00:30:17,890 --> 00:30:22,690
a lot who were the people that news

709
00:30:20,529 --> 00:30:25,119
outlets and TV stations and radio

710
00:30:22,690 --> 00:30:26,740
stations and newspapers there were those

711
00:30:25,119 --> 00:30:28,689
people that they were getting on to

712
00:30:26,740 --> 00:30:31,359
so-called balance the view of the

713

00:30:28,690 --> 00:30:33,309
immunization experts okay well probably

714
00:30:31,359 --> 00:30:36,189
the most common one would have been

715
00:30:33,309 --> 00:30:38,769
Merrill dory of course and what are her

716
00:30:36,190 --> 00:30:41,799
qualifications again let's just recap

717
00:30:38,769 --> 00:30:42,278
that her qualifications she knows how to

718
00:30:41,799 --> 00:30:46,868
use

719
00:30:42,278 --> 00:30:48,608
Eagle okay I guess there's that that's

720
00:30:46,868 --> 00:30:51,028
at the heart of what false balance is

721
00:30:48,608 --> 00:30:53,858
isn't it it's putting an expert like a

722
00:30:51,028 --> 00:30:56,229
pediatric infectious diseases specialist

723
00:30:53,858 --> 00:30:58,388
up against an anti-vaccination advocate

724
00:30:56,229 --> 00:31:01,690
with no qualifications in the field at

725
00:30:58,388 --> 00:31:04,148
all to the uninitiated observer that

726
00:31:01,690 --> 00:31:06,219
kind of looks as though there's genuine

727
00:31:04,148 --> 00:31:09,608

division in the community about the

728

00:31:06,219 --> 00:31:11,379

issue and we know that there's not a lot

729

00:31:09,608 --> 00:31:13,689

of the stuff that rachel has looked at

730

00:31:11,378 --> 00:31:15,638

around false balance there's been

731

00:31:13,690 --> 00:31:19,570

studies done that that actually show

732

00:31:15,638 --> 00:31:22,838

that that having those two unequal sides

733

00:31:19,569 --> 00:31:26,108

in a story is actually more damaging to

734

00:31:22,838 --> 00:31:29,528

attitudes than having an anti-vaccine

735

00:31:26,108 --> 00:31:33,749

story on its own yes and did they stop

736

00:31:29,528 --> 00:31:37,808

the avian has had a measurable impact on

737

00:31:33,749 --> 00:31:40,989

how the media handles false balance with

738

00:31:37,808 --> 00:31:43,058

regards vaccination stories I do I'm not

739

00:31:40,989 --> 00:31:45,519

one of the people who speaks in the

740

00:31:43,058 --> 00:31:47,999

media about vaccinations but there's a

741

00:31:45,519 --> 00:31:50,229

few you do what they do is when

742
00:31:47,999 --> 00:31:52,719
contacted by some media that they

743
00:31:50,229 --> 00:31:56,229
actually asked them what the angle or

744
00:31:52,719 --> 00:31:58,509
the theme of the segment and whether

745
00:31:56,229 --> 00:32:01,210
they're going to have an anti-vaccine

746
00:31:58,509 --> 00:32:03,878
person on as well if they're told that

747
00:32:01,210 --> 00:32:06,028
yes so for example all we've got married

748
00:32:03,878 --> 00:32:09,939
aurion or we've got you know some other

749
00:32:06,028 --> 00:32:12,338
anti-vaccine view on well then the stop

750
00:32:09,940 --> 00:32:16,058
the avian people just decline but

751
00:32:12,338 --> 00:32:17,950
explain why explain that it's harmful to

752
00:32:16,058 --> 00:32:20,378
do those kind of stories and provide

753
00:32:17,950 --> 00:32:22,389
them with some evidence and provide them

754
00:32:20,378 --> 00:32:24,998
with the public health warning against

755
00:32:22,388 --> 00:32:27,939
the avian and stuff like that so rather

756
00:32:24,999 --> 00:32:31,329
than just a client they explain the

757
00:32:27,940 --> 00:32:34,570
reasoning behind it and if that we've

758
00:32:31,329 --> 00:32:36,608
been quite successful and so what is the

759
00:32:34,569 --> 00:32:38,618
general response from journalists who

760
00:32:36,608 --> 00:32:41,168
who are then faced with us stop the

761
00:32:38,618 --> 00:32:44,319
avian member or in fact I mean I've done

762
00:32:41,169 --> 00:32:46,320
it before myself or nrvs I I've said no

763
00:32:44,319 --> 00:32:48,759
we will not appear alongside

764
00:32:46,319 --> 00:32:50,769
anti-vaccination advocates but from your

765
00:32:48,759 --> 00:32:53,378
experience and what you've presented in

766
00:32:50,769 --> 00:32:54,799
the poster what has the experience with

767
00:32:53,378 --> 00:32:57,500
journalists pain

768
00:32:54,799 --> 00:33:00,559
when faced with that oh look I figure

769
00:32:57,500 --> 00:33:03,130
Leon there was they weren't too sure

770

00:33:00,559 --> 00:33:06,619
about that but as time has gone on

771
00:33:03,130 --> 00:33:10,160
people really embrace the idea and quite

772
00:33:06,619 --> 00:33:12,649
a few have implemented an unofficial

773
00:33:10,160 --> 00:33:16,269
policy of not having anti-vaccine

774
00:33:12,650 --> 00:33:18,950
advocates on the project on channel 10 a

775
00:33:16,269 --> 00:33:20,960
particularly good with that that's right

776
00:33:18,950 --> 00:33:23,029
doctor rate she's been on that show a

777
00:33:20,960 --> 00:33:25,789
number of times as well probably had a

778
00:33:23,029 --> 00:33:28,250
bit to do with that informal policy of

779
00:33:25,789 --> 00:33:30,529
theirs I think she was integral in their

780
00:33:28,250 --> 00:33:32,599
informal policy yeah good they had her

781
00:33:30,529 --> 00:33:35,240
on a lot and they never have anyone on

782
00:33:32,599 --> 00:33:38,449
for the the so-called other side and

783
00:33:35,240 --> 00:33:41,769
there was actually an incident early on

784
00:33:38,450 --> 00:33:46,130

we're married or I was going to be

785

00:33:41,769 --> 00:33:48,769

interviewed and through talking to some

786

00:33:46,130 --> 00:33:51,890

stop the avn representatives the media

787

00:33:48,769 --> 00:33:54,529

outlet diverted their truck from going

788

00:33:51,890 --> 00:33:56,750

to merrill dory to going to interviewer

789

00:33:54,529 --> 00:33:58,789

mother whose children had been affected

790

00:33:56,750 --> 00:34:00,769

by vaccine-preventable disease in in

791

00:33:58,789 --> 00:34:04,039

that same area with the low vaccination

792

00:34:00,769 --> 00:34:06,619

rate so once you explain to them and

793

00:34:04,039 --> 00:34:08,418

they understand particularly now yeah

794

00:34:06,619 --> 00:34:11,269

they're very good at taking that on

795

00:34:08,418 --> 00:34:13,429

board and doing responsible stories and

796

00:34:11,269 --> 00:34:16,009

just tell us the segment in the second

797

00:34:13,429 --> 00:34:19,160

poster about the media watch segment

798

00:34:16,010 --> 00:34:20,750

what was all that about with the ABC in

799

00:34:19,159 --> 00:34:23,750

the past they've interviewed

800

00:34:20,750 --> 00:34:26,750

professional anti-vaccine advocates in

801

00:34:23,750 --> 00:34:29,449

immunization stories as a result they're

802

00:34:26,750 --> 00:34:31,190

broadcasting misleading content so

803

00:34:29,449 --> 00:34:34,069

there's been complaints to the ABC

804

00:34:31,190 --> 00:34:36,710

audience and consumer affairs and a lot

805

00:34:34,070 --> 00:34:39,950

of those have been upheld and then there

806

00:34:36,710 --> 00:34:42,980

was a story on media watch in which the

807

00:34:39,949 --> 00:34:45,529

hosts actually said to put it bluntly

808

00:34:42,980 --> 00:34:48,110

there's evidence and there's bulldust

809

00:34:45,530 --> 00:34:50,450

it's a journalist job to distinguish

810

00:34:48,110 --> 00:34:53,269

between them not sit on the fence and

811

00:34:50,449 --> 00:34:55,489

bleep balance especially when people's

812

00:34:53,269 --> 00:34:59,809

health is at risk to put it bluntly

813
00:34:55,489 --> 00:35:01,729
there's evidence and those bulldust it's

814
00:34:59,809 --> 00:35:04,519
a journalist job to distinguish between

815
00:35:01,730 --> 00:35:05,469
them not to sit on the fence and bleat

816
00:35:04,519 --> 00:35:07,759
balance

817
00:35:05,469 --> 00:35:10,730
especially when people's health is at

818
00:35:07,760 --> 00:35:13,640
risk that has been a bit of a turning

819
00:35:10,730 --> 00:35:16,219
point as well that little report on

820
00:35:13,639 --> 00:35:18,858
media watch it's almost as I'll put

821
00:35:16,219 --> 00:35:22,129
other media outlets on notice that you

822
00:35:18,858 --> 00:35:24,858
know if you keep doing this you gotta

823
00:35:22,130 --> 00:35:26,900
end up on media watch it was quite blunt

824
00:35:24,858 --> 00:35:30,739
that comment by media watch but very

825
00:35:26,900 --> 00:35:32,869
accurate it is it certainly is ok Tracy

826
00:35:30,739 --> 00:35:35,598
well thank you so much for your time and

827

00:35:32,869 --> 00:35:37,460
if listeners haven't yet come across the

828
00:35:35,599 --> 00:35:39,859
top the avn have a look for them on

829
00:35:37,460 --> 00:35:41,480
facebook and see some of you can scroll

830
00:35:39,858 --> 00:35:44,179
down the posts and see some of the great

831
00:35:41,480 --> 00:35:45,829
advocacy work that they're doing Tracy

832
00:35:44,179 --> 00:35:48,078
keep up the good work thank you very

833
00:35:45,829 --> 00:35:49,660
much thank so much writing thanks for

834
00:35:48,079 --> 00:35:52,849
having me on it's been a pleasure

835
00:35:49,659 --> 00:35:54,769
unending this recording Tracy and I

836
00:35:52,849 --> 00:35:57,619
chatted a little bit more and she

837
00:35:54,769 --> 00:35:59,989
pointed out quite rightly that we should

838
00:35:57,619 --> 00:36:03,380
send a shout out to all the members of

839
00:35:59,989 --> 00:36:05,389
stop the avian and similar groups who

840
00:36:03,380 --> 00:36:07,640
are contributing every day to stopping

841
00:36:05,389 --> 00:36:09,699

the flow of misinformation put out by

842

00:36:07,639 --> 00:36:12,949

the anti-vaccination movement every

843

00:36:09,699 --> 00:36:15,980

voice counts and every time someone

844

00:36:12,949 --> 00:36:19,608

speaks out it gives others courage to do

845

00:36:15,980 --> 00:36:22,059

so as well this has been highly

846

00:36:19,608 --> 00:36:27,400

Robertson from the Northern Rivers

847

00:36:22,059 --> 00:36:27,400

vaccination supporters till next time

848

00:36:41,920 --> 00:36:47,210

hey svenska skeptical the vet vet at

849

00:36:45,170 --> 00:36:49,309

Veterans Court building in the boy talk

850

00:36:47,210 --> 00:36:52,039

none hanger of the skeptic zone that an

851

00:36:49,309 --> 00:36:55,219

ox 0 alpha alpha dog poop science quiz

852

00:36:52,039 --> 00:36:57,889

of skeptical Kevin Thomas a queen pave

853

00:36:55,219 --> 00:36:59,989

very primitive of Punta safe at Spa nine

854

00:36:57,889 --> 00:37:02,269

vivoli you like our local training a

855

00:36:59,989 --> 00:37:03,949

hunter molanda Top Gun warmly boo

856
00:37:02,269 --> 00:37:06,858
installed that on the fence non-local

857
00:37:03,949 --> 00:37:11,239
training button to start time 12 your

858
00:37:06,858 --> 00:37:13,909
bottom add a new hello all skeptics in

859
00:37:11,239 --> 00:37:16,129
Sweden I'm sure you already know that

860
00:37:13,909 --> 00:37:18,078
the Swedish skeptics Association not

861
00:37:16,130 --> 00:37:20,720
only is a big fan of the skeptic zone

862
00:37:18,079 --> 00:37:22,880
but that we also organize lectures pop

863
00:37:20,719 --> 00:37:29,568
science quiz and skeptics in the pub all

864
00:37:22,880 --> 00:37:31,670
over the country go to ww vof se to see

865
00:37:29,568 --> 00:37:33,800
what are seven local chapters are up to

866
00:37:31,670 --> 00:37:36,230
and if you live in a place where there

867
00:37:33,800 --> 00:37:41,170
is no local chapter why not stop on

868
00:37:36,230 --> 00:37:41,170
yourself I'm talking to you mu

869
00:37:54,650 --> 00:38:01,800
carl sagan's baloney detection kit if

870
00:37:58,949 --> 00:38:04,559
like me you have been heavily influenced

871
00:38:01,800 --> 00:38:07,260
by the works of carl sagan especially

872
00:38:04,559 --> 00:38:10,199
the cosmos TV series and his books

873
00:38:07,260 --> 00:38:12,540
including the demon hornet world you'd

874
00:38:10,199 --> 00:38:14,929
be familiar with the baloney detection

875
00:38:12,539 --> 00:38:17,460
kit or the fine art of baloney detection

876
00:38:14,929 --> 00:38:20,569
here are some of the points carl sagan

877
00:38:17,460 --> 00:38:23,909
made from the demon haunted world as

878
00:38:20,570 --> 00:38:27,630
reproduced at skeptical science it's a

879
00:38:23,909 --> 00:38:30,480
skeptical hyphen science calm carl

880
00:38:27,630 --> 00:38:32,880
sagan's baloney detection kit to be used

881
00:38:30,480 --> 00:38:36,449
when faced with ideas or wild claims

882
00:38:32,880 --> 00:38:40,280
number one whenever possible there must

883
00:38:36,449 --> 00:38:44,669
be independent confirmation of the fax

884

00:38:40,280 --> 00:38:47,160
to encourage substantive debate on the

885
00:38:44,670 --> 00:38:51,750
evidence by knowledgeable proponents of

886
00:38:47,159 --> 00:38:55,279
all points of view three arguments from

887
00:38:51,750 --> 00:38:58,559
Authority carry little weight quote

888
00:38:55,280 --> 00:39:02,010
authorities and quote have made mistakes

889
00:38:58,559 --> 00:39:04,409
in the past they will do again in the

890
00:39:02,010 --> 00:39:07,350
future perhaps a better way to say it is

891
00:39:04,409 --> 00:39:12,750
that in science there are no authorities

892
00:39:07,349 --> 00:39:15,960
at most there are experts for spin more

893
00:39:12,750 --> 00:39:17,940
than one hypothesis if there's something

894
00:39:15,960 --> 00:39:20,010
to be explained think of all the

895
00:39:17,940 --> 00:39:22,679
different ways in which it could be

896
00:39:20,010 --> 00:39:26,040
explained then think of a test by which

897
00:39:22,679 --> 00:39:28,919
you might systematically disprove each

898
00:39:26,039 --> 00:39:31,349

of the alternatives what survives the

899

00:39:28,920 --> 00:39:33,780

hypothesis that resists this proof in

900

00:39:31,349 --> 00:39:36,449

this Darwinian selection among quote

901

00:39:33,780 --> 00:39:39,660

multiple working hypotheses mmm quote

902

00:39:36,449 --> 00:39:42,449

has a much better chance of being the

903

00:39:39,659 --> 00:39:44,369

right answer than if you had simply run

904

00:39:42,449 --> 00:39:48,089

with the first idea that caught your

905

00:39:44,369 --> 00:39:50,909

fancy five try not to get overly

906

00:39:48,090 --> 00:39:54,140

attached to a hypothesis just because

907

00:39:50,909 --> 00:39:56,549

it's yours it's only a weigh station

908

00:39:54,139 --> 00:40:01,739

than the pursuit of knowledge ask

909

00:39:56,550 --> 00:40:04,590

yourself why you like the idea compare

910

00:40:01,739 --> 00:40:05,949

it fairly with the alternatives see if

911

00:40:04,590 --> 00:40:09,550

you can find Reese

912

00:40:05,949 --> 00:40:15,250

for rejecting it if you don't others

913
00:40:09,550 --> 00:40:17,589
will 6 quantify if whatever it is you're

914
00:40:15,250 --> 00:40:20,858
explaining has some measure some

915
00:40:17,588 --> 00:40:23,170
numerical quantity attached to it you'll

916
00:40:20,858 --> 00:40:26,380
be much better able to discriminate

917
00:40:23,170 --> 00:40:29,500
among competing hypotheses what is vague

918
00:40:26,380 --> 00:40:32,230
and qualitative is open to many

919
00:40:29,500 --> 00:40:35,139
explanations of course there are truths

920
00:40:32,230 --> 00:40:37,599
to be sought in many qualitative issues

921
00:40:35,139 --> 00:40:41,618
we are obliged to confront but finding

922
00:40:37,599 --> 00:40:44,950
them is more challenging 7 if there's a

923
00:40:41,619 --> 00:40:47,470
chain of argument then every link in the

924
00:40:44,949 --> 00:40:50,969
chain must work including the premise

925
00:40:47,469 --> 00:40:54,959
not just most of them

926
00:40:50,969 --> 00:40:58,199
eight Occam's razor this convenient rule

927
00:40:54,960 --> 00:41:01,260
of thumb urges us when faced with two

928
00:40:58,199 --> 00:41:06,419
hypotheses that explain the data equally

929
00:41:01,260 --> 00:41:09,930
well to choose the simpler 9 always ask

930
00:41:06,420 --> 00:41:13,289
whether the hypothesis can be at least

931
00:41:09,929 --> 00:41:16,559
in principle falsified propositions that

932
00:41:13,289 --> 00:41:19,320
are untestable unfalsifiable are not

933
00:41:16,559 --> 00:41:21,239
worth much consider the grand idea that

934
00:41:19,320 --> 00:41:24,030
our universe and everything in it is

935
00:41:21,239 --> 00:41:27,869
just an elementary particle when

936
00:41:24,030 --> 00:41:30,960
electron say in a much bigger cosmos but

937
00:41:27,869 --> 00:41:34,079
if we can never acquire information from

938
00:41:30,960 --> 00:41:37,559
outside our universe is not the idea

939
00:41:34,079 --> 00:41:39,599
incapable of disproof you must be able

940
00:41:37,559 --> 00:41:41,820
to check assertions out inveterate

941

00:41:39,599 --> 00:41:44,610
skeptics must be given the chance to

942
00:41:41,820 --> 00:41:47,789
follow your reasoning to duplicate your

943
00:41:44,610 --> 00:41:50,940
experiments and to see if they get the

944
00:41:47,789 --> 00:41:53,250
same result and that look at carl

945
00:41:50,940 --> 00:41:55,349
sagan's baloney detection kit comes to

946
00:41:53,250 --> 00:42:00,230
us from skeptical science that's

947
00:41:55,349 --> 00:42:00,230
skeptical hyphen science calm

948
00:42:04,320 --> 00:42:13,110
on Maynard com don't owe you hey you

949
00:42:08,230 --> 00:42:13,110
what's that stain you can't explain it

950
00:42:15,519 --> 00:42:19,860
with my dad and Tim

951
00:42:26,030 --> 00:42:30,070
29 just call it

952
00:42:31,260 --> 00:42:35,580
Tim the election is growing quite close

953
00:42:33,659 --> 00:42:36,929
we're here at cafe frou-frou and a lot

954
00:42:35,579 --> 00:42:39,299
of people have been talking about the

955
00:42:36,929 --> 00:42:41,119

major topic that we are facing in the

956

00:42:39,300 --> 00:42:43,500

Australian election the population is

957

00:42:41,119 --> 00:42:49,289

facing the question should the new

958

00:42:43,500 --> 00:42:51,960

national anthem be da da da by trio or

959

00:42:49,289 --> 00:42:54,090

my old man's a dustman oh my old man's

960

00:42:51,960 --> 00:42:57,119

that's me look I've got to go da da da

961

00:42:54,090 --> 00:42:58,950

it's got the right feel it's got the

962

00:42:57,119 --> 00:43:00,869

best lyrics who can't get their heads

963

00:42:58,949 --> 00:43:07,949

around those lyrics even I can remember

964

00:43:00,869 --> 00:43:09,269

them and it's got a good message to the

965

00:43:07,949 --> 00:43:10,769

rest of the world of course you

966

00:43:09,269 --> 00:43:14,630

listening to bunga bunga 29 your

967

00:43:10,769 --> 00:43:14,630

official dad's RB 2016

968

00:43:19,369 --> 00:43:24,690

but unfortunately that movie's gone

969

00:43:21,869 --> 00:43:26,789

straight to DVD Tim straight to Netflix

970
00:43:24,690 --> 00:43:28,889
that's going to be the latest way those

971
00:43:26,789 --> 00:43:30,930
things are spoken about we here for a

972
00:43:28,889 --> 00:43:32,368
huge serve in a bunga bunga 29 on

973
00:43:30,929 --> 00:43:34,769
today's show you'll hear some news

974
00:43:32,369 --> 00:43:37,289
that's his opinion and he is entitled to

975
00:43:34,769 --> 00:43:40,500
it you'll hear some crank mail you get

976
00:43:37,289 --> 00:43:43,799
you get the crank mail no do they sound

977
00:43:40,500 --> 00:43:50,099
effects solo we'll find out what's in my

978
00:43:43,798 --> 00:44:01,980
bug-out bag bunga bunga i'm a nerd

979
00:43:50,099 --> 00:44:04,140
calmed are you hey you on the fourteenth

980
00:44:01,980 --> 00:44:06,778
of june now friends at the canberra

981
00:44:04,139 --> 00:44:10,379
skeptics enjoyed a lecture my doctor

982
00:44:06,778 --> 00:44:12,298
will grant a lecturer and researcher at

983
00:44:10,380 --> 00:44:15,420
the Australian National University and

984
00:44:12,298 --> 00:44:17,460
graduate studies convener at the center

985
00:44:15,420 --> 00:44:21,088
for public awareness of science

986
00:44:17,460 --> 00:44:23,400
otherwise known as see pass now after

987
00:44:21,088 --> 00:44:25,588
his talk yes reporter Kevin Davies

988
00:44:23,400 --> 00:44:27,889
caught up with dr. grant for this

989
00:44:25,588 --> 00:44:27,889
interview

990
00:44:31,969 --> 00:44:38,009
I'm here again at King o'malley's irish

991
00:44:35,099 --> 00:44:39,869
pub and I'm here with dr. Weil grant

992
00:44:38,010 --> 00:44:42,600
from the center of a public awareness of

993
00:44:39,869 --> 00:44:45,779
science at the Nu hey well how you going

994
00:44:42,599 --> 00:44:47,699
I'm very well very good very good to

995
00:44:45,780 --> 00:44:49,950
come out and talk skepticism and have a

996
00:44:47,699 --> 00:44:51,929
beer with it perhaps for our list is

997
00:44:49,949 --> 00:44:54,779
particularly for the ones overseas could

998

00:44:51,929 --> 00:44:57,299
you explain a little bit about cps what

999
00:44:54,780 --> 00:45:01,350
it is what it does Marinelli absolutely

1000
00:44:57,300 --> 00:45:02,490
love to so we're from well me I'm from

1001
00:45:01,349 --> 00:45:03,960
the Australian national center for

1002
00:45:02,489 --> 00:45:06,389
public awareness of science we call

1003
00:45:03,960 --> 00:45:08,849
ourselves see pass to check us out our

1004
00:45:06,389 --> 00:45:09,659
name is quite a long one to say we're

1005
00:45:08,849 --> 00:45:11,909
based at the Australian National

1006
00:45:09,659 --> 00:45:16,069
University where a small center that

1007
00:45:11,909 --> 00:45:18,239
does research and teaching on the

1008
00:45:16,070 --> 00:45:21,539
intersection between science and society

1009
00:45:18,239 --> 00:45:25,739
so our our teaching our education is

1010
00:45:21,539 --> 00:45:28,500
focused on giving science students and

1011
00:45:25,739 --> 00:45:30,899
research scientists the skills that they

1012
00:45:28,500 --> 00:45:33,329

need to go out and have a better

1013

00:45:30,900 --> 00:45:35,820

connection between science society for

1014

00:45:33,329 --> 00:45:37,679

some people that might be to understand

1015

00:45:35,820 --> 00:45:39,630

how people will use their use their

1016

00:45:37,679 --> 00:45:41,190

discoveries and tools it might be to

1017

00:45:39,630 --> 00:45:43,260

communicate their discoveries and tools

1018

00:45:41,190 --> 00:45:45,809

or it might be to understand what

1019

00:45:43,260 --> 00:45:47,760

society might want or it might be to

1020

00:45:45,809 --> 00:45:49,920

solve problems you know for instance if

1021

00:45:47,760 --> 00:45:52,320

you're in you skeptics many of you will

1022

00:45:49,920 --> 00:45:54,269

be aware of the discussions and debates

1023

00:45:52,320 --> 00:45:56,400

over vaccination of climate change or

1024

00:45:54,269 --> 00:45:59,400

any very early very early absolutely

1025

00:45:56,400 --> 00:46:01,800

well we we do research into why those

1026

00:45:59,400 --> 00:46:03,530

things occur how we might make a

1027
00:46:01,800 --> 00:46:06,450
difference in those sorts of spheres

1028
00:46:03,530 --> 00:46:08,430
then our research is there it's looking

1029
00:46:06,449 --> 00:46:10,349
at looking at why these things occur why

1030
00:46:08,429 --> 00:46:12,539
why for example different groups of

1031
00:46:10,349 --> 00:46:13,829
people don't resonate with science that

1032
00:46:12,539 --> 00:46:16,610
I connect to the science that only gate

1033
00:46:13,829 --> 00:46:19,289
and and how we might change that

1034
00:46:16,610 --> 00:46:20,420
they mentioned earlier that one of the

1035
00:46:19,289 --> 00:46:24,000
ways in which you are communicating

1036
00:46:20,420 --> 00:46:25,110
society is through some podcasts would

1037
00:46:24,000 --> 00:46:26,670
you care to talk about those a little

1038
00:46:25,110 --> 00:46:29,640
bit more I'd be very I'd be very happy

1039
00:46:26,670 --> 00:46:31,440
to look at this one well we have done a

1040
00:46:29,639 --> 00:46:33,449
few different podcasts and on a range of

1041
00:46:31,440 --> 00:46:36,809
different topics but the one that might

1042
00:46:33,449 --> 00:46:39,119
be of most interest to your listeners is

1043
00:46:36,809 --> 00:46:41,219
is it's not out yet so so you're getting

1044
00:46:39,119 --> 00:46:44,489
any of the ground floor here it's called

1045
00:46:41,219 --> 00:46:47,129
the wholesome show our goal there is

1046
00:46:44,489 --> 00:46:49,409
really to look at the complex issues in

1047
00:46:47,130 --> 00:46:51,059
the universe in society in the world

1048
00:46:49,409 --> 00:46:53,759
whatever's going on and pull them apart

1049
00:46:51,059 --> 00:46:57,599
now it's it we're very much going for a

1050
00:46:53,760 --> 00:47:00,300
comedy comedy vibe but really trying to

1051
00:46:57,599 --> 00:47:02,699
explore complex issues so we're starting

1052
00:47:00,300 --> 00:47:04,830
on July 13 and podcast listeners will

1053
00:47:02,699 --> 00:47:07,109
probably see it in the week or two after

1054
00:47:04,829 --> 00:47:10,139
it you said oh we who is the second

1055

00:47:07,110 --> 00:47:11,970
person in this that would be my partner

1056
00:47:10,139 --> 00:47:15,210
in crime I guess or who you know there's

1057
00:47:11,969 --> 00:47:16,829
other words for dr. rod Lambert's so we

1058
00:47:15,210 --> 00:47:20,340
go by the moniker of the vaguely good

1059
00:47:16,829 --> 00:47:22,590
doctors our first episode is looking at

1060
00:47:20,340 --> 00:47:26,600
one of us where we're trying to explore

1061
00:47:22,590 --> 00:47:29,160
what it means to have a mainstream now

1062
00:47:26,599 --> 00:47:30,659
society has changed enormously with the

1063
00:47:29,159 --> 00:47:32,190
advent of the Internet I don't know

1064
00:47:30,659 --> 00:47:33,269
quite who I'm talking to here but you

1065
00:47:32,190 --> 00:47:36,300
could be in the range of different

1066
00:47:33,269 --> 00:47:38,489
countries and at the same time 20 years

1067
00:47:36,300 --> 00:47:40,980
ago or 30 years ago many of us grew up

1068
00:47:38,489 --> 00:47:42,719
in societies that that had a sort of

1069
00:47:40,980 --> 00:47:45,269

dominant culture but that's disappeared

1070

00:47:42,719 --> 00:47:46,799

I think has it maybe it's not there it's

1071

00:47:45,269 --> 00:47:48,389

a little bit there it's changing

1072

00:47:46,800 --> 00:47:50,340

enormously we're exploring that from a

1073

00:47:48,389 --> 00:47:51,960

sociological perspective is there a

1074

00:47:50,340 --> 00:47:54,120

website for that is there somewhere we

1075

00:47:51,960 --> 00:47:57,510

can reach it get absolutely you can go

1076

00:47:54,119 --> 00:47:59,279

right now to wholesome show com the

1077

00:47:57,510 --> 00:48:01,770

podcast won't be available until after

1078

00:47:59,280 --> 00:48:02,940

we were after we do the show so July 13

1079

00:48:01,769 --> 00:48:04,829

for the show and the podcast will be out

1080

00:48:02,940 --> 00:48:07,019

the weeks after that now you gave a talk

1081

00:48:04,829 --> 00:48:08,699

tonight didn't you the talk was on the

1082

00:48:07,019 --> 00:48:10,650

relationship between critical thinking

1083

00:48:08,699 --> 00:48:12,299

skills and scientific literacy and

1084
00:48:10,650 --> 00:48:14,420
scientific education what's the

1085
00:48:12,300 --> 00:48:17,190
difference between critical thinking and

1086
00:48:14,420 --> 00:48:19,230
science yeah look this is a really

1087
00:48:17,190 --> 00:48:21,690
interesting question now

1088
00:48:19,230 --> 00:48:24,389
the first thing is you can't do science

1089
00:48:21,690 --> 00:48:26,010
or good science without good critical

1090
00:48:24,389 --> 00:48:28,289
thinking skills but they're not the same

1091
00:48:26,010 --> 00:48:31,200
thing so critical thinking is the about

1092
00:48:28,289 --> 00:48:33,179
the ability to understand how knowledge

1093
00:48:31,199 --> 00:48:34,858
is produced to pull knowledge apart and

1094
00:48:33,179 --> 00:48:36,960
to say okay can we test that piece of

1095
00:48:34,858 --> 00:48:39,269
knowledge and can we critically analyze

1096
00:48:36,960 --> 00:48:41,250
whether it's useful or not whether we

1097
00:48:39,269 --> 00:48:43,170
can trust the sources all of those kinds

1098
00:48:41,250 --> 00:48:44,760
of things science uses a bunch of those

1099
00:48:43,170 --> 00:48:47,369
things but science uses other things as

1100
00:48:44,760 --> 00:48:48,960
well so the scientific process will be

1101
00:48:47,369 --> 00:48:50,670
using a range of different techniques

1102
00:48:48,960 --> 00:48:54,300
depending on the discipline to go out

1103
00:48:50,670 --> 00:48:55,559
and collect new data to analyze that

1104
00:48:54,300 --> 00:48:58,019
data and find the patterns and those

1105
00:48:55,559 --> 00:49:02,070
kinds of things they're related they're

1106
00:48:58,019 --> 00:49:03,269
related fields of the human pursuit but

1107
00:49:02,070 --> 00:49:05,809
they're not the same thing and the

1108
00:49:03,269 --> 00:49:08,250
interesting question for us is that is

1109
00:49:05,809 --> 00:49:09,929
science the only way to teach critical

1110
00:49:08,250 --> 00:49:12,239
thinking skills or even the best way to

1111
00:49:09,929 --> 00:49:14,279
teach the critical thinking skills we

1112

00:49:12,239 --> 00:49:16,049
had a bit of a debate amongst your

1113
00:49:14,280 --> 00:49:17,519
friends colleagues some of us came from

1114
00:49:16,050 --> 00:49:20,670
an arts background some of us came from

1115
00:49:17,519 --> 00:49:22,409
a science background and you can get

1116
00:49:20,670 --> 00:49:24,720
critical thinking skills from a range of

1117
00:49:22,409 --> 00:49:26,159
different places well obviously when you

1118
00:49:24,719 --> 00:49:27,899
said art you're referring to say the

1119
00:49:26,159 --> 00:49:30,899
humanities what about the visual arts

1120
00:49:27,900 --> 00:49:33,920
could a visual artists be a critical

1121
00:49:30,900 --> 00:49:37,440
thinker but it really does appear that

1122
00:49:33,920 --> 00:49:38,970
more education of any sort leads to

1123
00:49:37,440 --> 00:49:41,190
better critical thinking skills now the

1124
00:49:38,969 --> 00:49:42,929
key thing there is that we didn't have a

1125
00:49:41,190 --> 00:49:44,280
lot of visual arts people in our sample

1126
00:49:42,929 --> 00:49:47,519

we had a lot of a lot of different

1127

00:49:44,280 --> 00:49:50,550

things and I do wonder I do wonder just

1128

00:49:47,519 --> 00:49:51,750

from sheer an implicit understanding of

1129

00:49:50,550 --> 00:49:53,460

okay what's going on in the visual arts

1130

00:49:51,750 --> 00:49:55,170

process if someone is very highly

1131

00:49:53,460 --> 00:49:56,970

educated in the visual arts process I

1132

00:49:55,170 --> 00:49:58,889

would say that they probably have pretty

1133

00:49:56,969 --> 00:50:01,019

good critical thinking skills better and

1134

00:49:58,889 --> 00:50:03,920

better to produce the work of art they

1135

00:50:01,019 --> 00:50:06,599

want are they thinking critically about

1136

00:50:03,920 --> 00:50:07,829

okay say it's paint you know they're

1137

00:50:06,599 --> 00:50:09,509

thinking about okay what is going to

1138

00:50:07,829 --> 00:50:11,130

produce the thing that I want the depth

1139

00:50:09,510 --> 00:50:13,200

of color the brains that all of those

1140

00:50:11,130 --> 00:50:15,329

kinds of things they're trying to test

1141
00:50:13,199 --> 00:50:18,089
their own knowledge now this is just

1142
00:50:15,329 --> 00:50:21,840
really conjecture here but I would I

1143
00:50:18,090 --> 00:50:23,519
would I would guess that yes even even

1144
00:50:21,840 --> 00:50:24,869
in something like the visual arts which

1145
00:50:23,519 --> 00:50:26,730
is not necessarily dealing with

1146
00:50:24,869 --> 00:50:27,640
knowledge but the more more educated you

1147
00:50:26,730 --> 00:50:28,690
are the more

1148
00:50:27,639 --> 00:50:31,059
the more that you're thinking about

1149
00:50:28,690 --> 00:50:32,980
processes of production and education

1150
00:50:31,059 --> 00:50:35,139
the better your critical thinking skills

1151
00:50:32,980 --> 00:50:37,619
are likely to be and how long was this

1152
00:50:35,139 --> 00:50:40,269
research over or what period of time

1153
00:50:37,619 --> 00:50:42,159
this was this is basically this this

1154
00:50:40,269 --> 00:50:45,940
research was a large survey that we put

1155
00:50:42,159 --> 00:50:48,609
out last year where we collected 8,000

1156
00:50:45,940 --> 00:50:51,190
people and tested them against both

1157
00:50:48,610 --> 00:50:53,320
their backgrounds in terms of the

1158
00:50:51,190 --> 00:50:55,119
education they did and how they

1159
00:50:53,320 --> 00:50:56,860
self-identify to school some things like

1160
00:50:55,119 --> 00:50:58,059
that against their scientific literacy

1161
00:50:56,860 --> 00:51:00,490
scores and their critical thinking

1162
00:50:58,059 --> 00:51:05,049
skills thank you very much dr.

1163
00:51:00,489 --> 00:51:06,579
willebrand I travel at all you can find

1164
00:51:05,050 --> 00:51:08,680
out more about the Australian National

1165
00:51:06,579 --> 00:51:13,829
Center for the public awareness of

1166
00:51:08,679 --> 00:51:16,869
science at sea pass see PA sa nu e dua

1167
00:51:13,829 --> 00:51:19,329
you and remember to check with the

1168
00:51:16,869 --> 00:51:21,309
Canberra skeptics for their continuing

1169

00:51:19,329 --> 00:51:35,860
series of talks throughout the year at

1170
00:51:21,309 --> 00:51:37,570
Canberra skeptics dot org dot a you did

1171
00:51:35,860 --> 00:51:39,940
you see that UFO sighting that made the

1172
00:51:37,570 --> 00:51:42,190
news what did that latest study about

1173
00:51:39,940 --> 00:51:43,840
alternative treatments really say is

1174
00:51:42,190 --> 00:51:46,809
this photo making the rounds real or

1175
00:51:43,840 --> 00:51:48,670
hoax doubtful news is a unique website

1176
00:51:46,809 --> 00:51:50,829
featuring news about pseudoscience the

1177
00:51:48,670 --> 00:51:52,530
paranormal anomalies and questionable

1178
00:51:50,829 --> 00:51:55,480
claims framed with the skeptical view

1179
00:51:52,530 --> 00:51:57,240
come visit doubtful newscom every day

1180
00:51:55,480 --> 00:52:00,969
for news about cryptozoology

1181
00:51:57,239 --> 00:52:03,879
conspiracies shams scams and more follow

1182
00:52:00,969 --> 00:52:05,439
us on twitter at doubtful news critical

1183
00:52:03,880 --> 00:52:07,720

thinking is essential in assessing

1184

00:52:05,440 --> 00:52:11,550

today's news duffel news helps you

1185

00:52:07,719 --> 00:52:11,549

decide can you really believe this stuff

1186

00:52:23,440 --> 00:52:27,829

thank you for listening to the skeptic

1187

00:52:25,880 --> 00:52:30,769

Cernan for those people have written to

1188

00:52:27,829 --> 00:52:33,559

me Henrietta and more the skeptic zone

1189

00:52:30,769 --> 00:52:35,449

cats are doing really well they're right

1190

00:52:33,559 --> 00:52:37,909

behind me now I in fact in the studio

1191

00:52:35,449 --> 00:52:40,669

hang on a second they found a spot in

1192

00:52:37,909 --> 00:52:42,889

the Sun and they're looking at me now

1193

00:52:40,670 --> 00:52:54,740

care to say anything to the skeptics own

1194

00:52:42,889 --> 00:52:56,599

fans yes they're trying to eat the

1195

00:52:54,739 --> 00:53:01,399

microphone they're pretty happy those

1196

00:52:56,599 --> 00:53:03,949

two and I think what they were saying

1197

00:53:01,400 --> 00:53:06,050

there's I can translate their purse hmm

1198
00:53:03,949 --> 00:53:08,929
I think what they were saying was that

1199
00:53:06,050 --> 00:53:12,019
they hope some more people will sign up

1200
00:53:08,929 --> 00:53:14,839
with the patreon at skeptic zone TV and

1201
00:53:12,019 --> 00:53:18,610
help support the show I'm sure they will

1202
00:53:14,840 --> 00:53:21,130
you too yeah I'm sure yeah all right

1203
00:53:18,610 --> 00:53:24,380
they're ignoring me now because you know

1204
00:53:21,130 --> 00:53:25,610
their cat's coming up on the skeptics

1205
00:53:24,380 --> 00:53:28,970
are we looking forward to the first

1206
00:53:25,610 --> 00:53:32,870
report by a new reporter dr. Cassandra

1207
00:53:28,969 --> 00:53:34,969
Perryman and her section called the

1208
00:53:32,869 --> 00:53:37,250
cache files looking forward to that I

1209
00:53:34,969 --> 00:53:39,829
think we might be covering a story some

1210
00:53:37,250 --> 00:53:42,409
of you probably heard about firewalking

1211
00:53:39,829 --> 00:53:44,090
gone wrong I've actually done

1212
00:53:42,409 --> 00:53:46,429
firewalking i did it with dr. carl

1213
00:53:44,090 --> 00:53:48,620
korzeniewski it didn't go wrong for us

1214
00:53:46,429 --> 00:53:51,739
but I guess we sort of knew what we were

1215
00:53:48,619 --> 00:53:54,409
doing and we had a certain trust shall I

1216
00:53:51,739 --> 00:53:56,539
say in the laws of physics and just

1217
00:53:54,409 --> 00:53:58,909
before I go as you heard in the skeptics

1218
00:53:56,539 --> 00:54:02,150
and don't forget to visit Manor dot com

1219
00:53:58,909 --> 00:54:04,879
au for his wacky podcast including bunga

1220
00:54:02,150 --> 00:54:07,250
bunga I had a great pleasure you're just

1221
00:54:04,880 --> 00:54:10,599
last week of being with Maynard and Tim

1222
00:54:07,250 --> 00:54:13,130
Ferguson as we visited the supernova

1223
00:54:10,599 --> 00:54:16,519
science fiction and fan festival in

1224
00:54:13,130 --> 00:54:19,400
Sydney and I happen to know that very

1225
00:54:16,519 --> 00:54:21,769
soon the new episode of bunga bunga will

1226

00:54:19,400 --> 00:54:24,380
come out and there will be a video that

1227
00:54:21,769 --> 00:54:26,719
accompanies that all about supernova so

1228
00:54:24,380 --> 00:54:29,840
keep an eye out for that by visiting

1229
00:54:26,719 --> 00:54:32,509
Maynard com delay you but for this week

1230
00:54:29,840 --> 00:54:34,970
with the cats still ignoring me this is

1231
00:54:32,510 --> 00:54:36,080
Richard Saunders signing off from a very

1232
00:54:34,969 --> 00:54:42,230
chilly Sydney

1233
00:54:36,079 --> 00:54:44,299
Australia you've been listening to the

1234
00:54:42,230 --> 00:54:48,559
skeptics own podcast visit our website

1235
00:54:44,300 --> 00:54:51,920
at wwc a petting zoo TV for contacts an

1236
00:54:48,559 --> 00:54:55,009
archive of all episodes since 2008 and

1237
00:54:51,920 --> 00:54:57,050
our online store please support the

1238
00:54:55,010 --> 00:55:00,410
skeptic zone by following us on twitter

1239
00:54:57,050 --> 00:55:03,950
at skeptic zone liking us on facebook

1240
00:55:00,409 --> 00:55:05,449

and leaving a review on iTunes you can

1241

00:55:03,949 --> 00:55:09,289

also show your support by subscribing

1242

00:55:05,449 --> 00:55:12,319

via paypal for as little as 99 cents a

1243

00:55:09,289 --> 00:55:13,969

week the skeptic zone is an independent

1244

00:55:12,320 --> 00:55:16,400

production the views and opinions

1245

00:55:13,969 --> 00:55:17,989

expressed on the skeptic zone and not

1246

00:55:16,400 --> 00:55:20,869

necessarily those of Australian

1247

00:55:17,989 --> 00:55:23,679

skeptically or any other skeptical

1248

00:55:20,869 --> 00:55:23,679

organization

1249

00:55:24,079 --> 00:55:26,139

you