

1
00:00:06,019 --> 00:00:11,919
welcome to the skeptic zone the podcast

2
00:00:09,109 --> 00:00:23,119
from Australia for science and reason

3
00:00:11,919 --> 00:00:26,009
[Music]

4
00:00:23,120 --> 00:00:29,730
yes it's the skeptic zone podcast

5
00:00:26,010 --> 00:00:33,090
episode number 534 for the 13th of

6
00:00:29,730 --> 00:00:35,549
January 2019 richardsaunders he with you

7
00:00:33,090 --> 00:00:38,160
coming again once again from the Bay

8
00:00:35,549 --> 00:00:40,919
Area San Francisco I'm having an

9
00:00:38,159 --> 00:00:44,250
extended stay in the United States at

10
00:00:40,920 --> 00:00:47,489
the moment due to well pressing family

11
00:00:44,250 --> 00:00:50,340
reasons we're working to make sure

12
00:00:47,488 --> 00:00:53,159
everything is as good as it can be at

13
00:00:50,340 --> 00:00:55,980
the moment but what a pleasure it is to

14
00:00:53,159 --> 00:00:58,919
be in the Bay Area one of my favorite

15
00:00:55,979 --> 00:01:00,988
places in the world coming up on this

16
00:00:58,920 --> 00:01:03,179
week's show and owing to the fact that

17
00:01:00,988 --> 00:01:06,689
things are slightly different at the

18
00:01:03,179 --> 00:01:09,090
moment for me personally a little a

19
00:01:06,689 --> 00:01:11,728
little shorter this week than normal I

20
00:01:09,090 --> 00:01:14,040
hope you understand we're gonna kick off

21
00:01:11,728 --> 00:01:17,099
with a report from Ken Harvey dr. ken

22
00:01:14,040 --> 00:01:20,130
Harvey one of our favorite people who is

23
00:01:17,099 --> 00:01:22,409
known as a serial complainer and this is

24
00:01:20,129 --> 00:01:25,560
all about his complaints to the

25
00:01:22,409 --> 00:01:31,728
government authorities about ear

26
00:01:25,560 --> 00:01:34,469
candling oh my goodness me ear candling

27
00:01:31,728 --> 00:01:37,170
forgive me while my brain goes on

28
00:01:34,469 --> 00:01:39,030
holiday ear candling is one of the most

29

00:01:37,170 --> 00:01:43,829
ridiculous forms of alternative medicine

30
00:01:39,030 --> 00:01:45,960
you have ever seen and this report is an

31
00:01:43,829 --> 00:01:48,269
overview written by Ken Harvey about his

32
00:01:45,959 --> 00:01:52,438
complaint to the TGA the Therapeutic

33
00:01:48,269 --> 00:01:55,438
Goods Administration about this absurd

34
00:01:52,438 --> 00:01:58,279
form of quackery after that a follow-up

35
00:01:55,438 --> 00:02:00,989
report from Michelle Franklin our

36
00:01:58,280 --> 00:02:02,340
reporter in the Northern Territory now

37
00:02:00,989 --> 00:02:05,339
last week you would have heard her

38
00:02:02,340 --> 00:02:08,539
report about emus this week she follows

39
00:02:05,340 --> 00:02:11,129
that up with a report about cane toads

40
00:02:08,539 --> 00:02:12,900
cane toads are a huge problem in

41
00:02:11,129 --> 00:02:16,859
Australia in the northern part of

42
00:02:12,900 --> 00:02:19,980
Australia and there are calls for the

43
00:02:16,860 --> 00:02:24,540

cane toads to be to be controlled with a

44

00:02:19,979 --> 00:02:26,669

bounty situation or a bounty solution

45

00:02:24,539 --> 00:02:29,189

what does Michelle Franklin think about

46

00:02:26,669 --> 00:02:31,918

this find out later on following that

47

00:02:29,189 --> 00:02:32,939

and I'm delighted to say following that

48

00:02:31,919 --> 00:02:35,910

it's our new

49

00:02:32,939 --> 00:02:38,789

porta Trish Han I've known Trish for

50

00:02:35,909 --> 00:02:42,120

some years now and she's a marvel she's

51

00:02:38,789 --> 00:02:44,659

just a wondrous person she's

52

00:02:42,120 --> 00:02:46,259

professional she has great knowledge

53

00:02:44,659 --> 00:02:50,520

medical knowledge

54

00:02:46,259 --> 00:02:55,370

I could wax lyrical about Trish and her

55

00:02:50,520 --> 00:02:58,439

new segment is called Trish and chips oh

56

00:02:55,370 --> 00:03:01,259

boy yes let's have some attrition chips

57

00:02:58,439 --> 00:03:02,639

and well Trish has been a reporter on

58
00:03:01,259 --> 00:03:05,489
the skeptic zone before but now it's

59
00:03:02,639 --> 00:03:08,269
official folks he's our new reporter I'm

60
00:03:05,490 --> 00:03:11,790
gonna update the website soon and she

61
00:03:08,270 --> 00:03:13,620
jumps in takes over fills in for Maynard

62
00:03:11,789 --> 00:03:16,229
and I because we both couldn't make

63
00:03:13,620 --> 00:03:18,930
skeptics in the pub in Sydney and she

64
00:03:16,229 --> 00:03:21,389
asks the big question this week why are

65
00:03:18,930 --> 00:03:25,500
the public so cynical about climate

66
00:03:21,389 --> 00:03:28,799
change or are they find out with Trish

67
00:03:25,500 --> 00:03:30,629
Hann with Trish and chips then to round

68
00:03:28,800 --> 00:03:33,420
off the show another report from the

69
00:03:30,629 --> 00:03:36,139
archives of the skeptic magazine the

70
00:03:33,419 --> 00:03:38,729
journal from the slain skeptics where we

71
00:03:36,139 --> 00:03:41,189
look at an article written by doctor

72
00:03:38,729 --> 00:03:44,549
Richard Gordon many years ago about

73
00:03:41,189 --> 00:03:47,459
quackery so a bit of a mixed bag on this

74
00:03:44,550 --> 00:03:49,560
week's a skeptic zone but now it's time

75
00:03:47,459 --> 00:03:52,459
for me to run upstairs and have

76
00:03:49,560 --> 00:03:55,289
something I had today for the first time

77
00:03:52,459 --> 00:03:59,490
some people wouldn't believe it I had a

78
00:03:55,289 --> 00:04:01,019
peanut butter and jelly sandwich hmm and

79
00:03:59,490 --> 00:04:03,570
it was pretty good so I might have

80
00:04:01,020 --> 00:04:06,540
another one of those well I enjoy that I

81
00:04:03,569 --> 00:04:13,919
hope you enjoy this skeptic zone

82
00:04:06,539 --> 00:04:16,990
[Music]

83
00:04:13,919 --> 00:04:16,990
[Applause]

84
00:04:24,339 --> 00:04:31,518
[Music]

85
00:04:33,339 --> 00:04:39,369
it's a pleasant afternoon here in

86

00:04:35,959 --> 00:04:43,899
Northern California near San Francisco

87
00:04:39,370 --> 00:04:48,079
I'm sitting outside to read you a report

88
00:04:43,899 --> 00:04:51,259
from dr. Ken Harvey now dr. Ken Harvey

89
00:04:48,079 --> 00:04:53,000
you will remember he's a whale he's

90
00:04:51,259 --> 00:04:55,689
somewhat of a legend in skeptical

91
00:04:53,000 --> 00:04:58,129
circles of course for his serial

92
00:04:55,689 --> 00:05:01,219
complaining now this is a man who puts

93
00:04:58,129 --> 00:05:03,319
together well-thought-out logical

94
00:05:01,220 --> 00:05:05,060
methodical complaints about quack

95
00:05:03,319 --> 00:05:09,529
products sends them to the government

96
00:05:05,060 --> 00:05:12,470
and it's an invaluable tool that

97
00:05:09,529 --> 00:05:15,759
skeptics have this complaining you know

98
00:05:12,470 --> 00:05:19,310
approaching the correct authorities and

99
00:05:15,759 --> 00:05:22,189
this report comes to us from mid reach

100
00:05:19,310 --> 00:05:23,689

proprietary limited men reach calm today

101

00:05:22,189 --> 00:05:26,170

you of course there'll be a link in the

102

00:05:23,689 --> 00:05:29,839

show notes it's by dr. Ken Harvey and

103

00:05:26,170 --> 00:05:32,600

it's the old favorite one of the most

104

00:05:29,839 --> 00:05:36,169

bizarre and outrageous and obvious

105

00:05:32,600 --> 00:05:37,910

quackery devices modalities I've ever

106

00:05:36,170 --> 00:05:40,430

come across and that's ear candles here

107

00:05:37,910 --> 00:05:44,000

candling and the first time I saw that

108

00:05:40,430 --> 00:05:46,910

this had a mind-body wallet festival in

109

00:05:44,000 --> 00:05:49,339

Sydney I had to look twice I simply

110

00:05:46,910 --> 00:05:52,580

could not believe what I was seeing the

111

00:05:49,339 --> 00:05:54,259

stupidity of it although I mean I do

112

00:05:52,579 --> 00:05:57,019

realize it's the wrong way to approach

113

00:05:54,259 --> 00:05:58,909

it because if you call it stupid people

114

00:05:57,019 --> 00:06:00,319

get instantly offended and they get

115
00:05:58,910 --> 00:06:03,620
their hackles up and they dig the heels

116
00:06:00,319 --> 00:06:06,649
in and all those have a great they've

117
00:06:03,620 --> 00:06:09,620
made imagery anyway it's plainly

118
00:06:06,649 --> 00:06:11,629
ridiculous I will say and this report

119
00:06:09,620 --> 00:06:13,120
says ear candles the outcome of the

120
00:06:11,629 --> 00:06:16,009
Therapeutic Goods Administration

121
00:06:13,120 --> 00:06:20,370
complaint and for those who want to know

122
00:06:16,009 --> 00:06:26,069
complaint is the number is AC v TM

123
00:06:20,370 --> 00:06:29,668
you I why HC / 2018 and this is posted

124
00:06:26,069 --> 00:06:31,490
on the 6th of January by Ken Harvey ear

125
00:06:29,668 --> 00:06:34,379
candling is a widely promoted

126
00:06:31,490 --> 00:06:37,350
alternative medical practice that

127
00:06:34,379 --> 00:06:41,969
involves inserting and lighting a hollow

128
00:06:37,350 --> 00:06:42,810
candle in the ear canal and it sounds

129
00:06:41,970 --> 00:06:46,350
ridiculous

130
00:06:42,810 --> 00:06:48,750
I'm already wearied on it is claimed

131
00:06:46,350 --> 00:06:52,470
that ear candling creates a vacuum that

132
00:06:48,750 --> 00:06:56,610
removes wax and that it can also relieve

133
00:06:52,470 --> 00:06:59,370
earache glue ear kinases sinus problems

134
00:06:56,610 --> 00:07:02,069
chronic headache migraine sore throat

135
00:06:59,370 --> 00:07:04,579
allergies and many more conditions in

136
00:07:02,069 --> 00:07:08,579
fact ear candles and candling are

137
00:07:04,579 --> 00:07:11,219
ineffective and dangerous they do not

138
00:07:08,579 --> 00:07:14,459
remove wax from the ear and they have no

139
00:07:11,220 --> 00:07:17,039
effect apart from acting as a placebo on

140
00:07:14,459 --> 00:07:20,689
the numerous conditions they claim the

141
00:07:17,038 --> 00:07:23,728
treat may have caused injury from burns

142
00:07:20,689 --> 00:07:26,250
eardrum perforations and secondary ear

143

00:07:23,728 --> 00:07:30,990
canal infections with temporary hearing

144
00:07:26,250 --> 00:07:34,500
loss the complaints resolution panel CRP

145
00:07:30,990 --> 00:07:37,110
upheld 20 complaints about misleading

146
00:07:34,500 --> 00:07:38,339
claims made for ear candles and referred

147
00:07:37,110 --> 00:07:41,699
more to the Therapeutic Goods

148
00:07:38,339 --> 00:07:44,209
Administration or TGA on the grounds

149
00:07:41,699 --> 00:07:47,639
that regulatory action was required

150
00:07:44,209 --> 00:07:49,709
Friends of signs in medicine now that's

151
00:07:47,639 --> 00:07:51,840
another fine outfit of course that we'd

152
00:07:49,709 --> 00:07:53,788
like to promote Friends of science in

153
00:07:51,839 --> 00:07:56,478
medicine also raised this matter with

154
00:07:53,788 --> 00:08:00,209
the TGA may have pointed out that other

155
00:07:56,478 --> 00:08:03,500
regulators such as the US FDA and Health

156
00:08:00,209 --> 00:08:06,689
Canada have provided public warnings

157
00:08:03,500 --> 00:08:09,019

important alerts seizures injunctions

158

00:08:06,689 --> 00:08:14,250

and warning letters about these matters

159

00:08:09,019 --> 00:08:16,469

however the TGA refused to act instead

160

00:08:14,250 --> 00:08:18,750

the TGA advised the government to

161

00:08:16,470 --> 00:08:20,039

exclude air candles from the therapeutic

162

00:08:18,750 --> 00:08:22,410

goods framework

163

00:08:20,038 --> 00:08:24,659

thus abdicating their responsibilities

164

00:08:22,410 --> 00:08:26,639

in this regard and transferring the

165

00:08:24,660 --> 00:08:30,240

regulatory responsibilities to the a

166

00:08:26,639 --> 00:08:32,310

triple see this disregarded the majority

167

00:08:30,240 --> 00:08:35,370

of public submissions about

168

00:08:32,309 --> 00:08:38,549

proposal including one from the a Triple

169

00:08:35,370 --> 00:08:43,229

C that opposed this change from 1 July

170

00:08:38,549 --> 00:08:45,689

2018 the CRP was abolished and the TGA

171

00:08:43,229 --> 00:08:47,580

became responsible for all complaints

172
00:08:45,690 --> 00:08:50,910
about the advertising of therapeutic

173
00:08:47,580 --> 00:08:53,540
goods at this time ear candles had not

174
00:08:50,909 --> 00:08:56,969
yet been added to the therapeutics goods

175
00:08:53,539 --> 00:09:04,529
excluded goods order number one from

176
00:08:56,970 --> 00:09:06,300
2011 on 24 July 2018 a portfolio of 104

177
00:09:04,529 --> 00:09:09,750
complaints about the promotion of ear

178
00:09:06,299 --> 00:09:12,839
candles was submitted to the TGA on 21

179
00:09:09,750 --> 00:09:16,080
September 2018 the TGA finalized this

180
00:09:12,840 --> 00:09:18,780
complaint by stating that they had sent

181
00:09:16,080 --> 00:09:21,990
an educational letter to all the

182
00:09:18,779 --> 00:09:23,909
identified advertisers hmm this also

183
00:09:21,990 --> 00:09:25,620
said that the outcome of this complaint

184
00:09:23,909 --> 00:09:28,169
would not be published on the

185
00:09:25,620 --> 00:09:30,720
advertising complaints outcomes the

186
00:09:28,169 --> 00:09:32,759
reason given was that ear candles were

187
00:09:30,720 --> 00:09:35,160
expected to be excluded from the

188
00:09:32,759 --> 00:09:37,379
therapeutic goods regulatory framework

189
00:09:35,159 --> 00:09:41,129
before the end of 2018

190
00:09:37,379 --> 00:09:44,580
on 1 October 2018 the TGA made a new

191
00:09:41,129 --> 00:09:48,600
determination under Section 7 a a of the

192
00:09:44,580 --> 00:09:51,060
therapeutics Goods Act in 1989 excluding

193
00:09:48,600 --> 00:09:53,310
ear candles from the TGA x' jurisdiction

194
00:09:51,059 --> 00:09:57,389
these products and now the

195
00:09:53,309 --> 00:10:01,199
responsibility of the a triple C this is

196
00:09:57,389 --> 00:10:03,689
quite a long and convoluted story we

197
00:10:01,200 --> 00:10:06,810
read on I have now assessed the impact

198
00:10:03,690 --> 00:10:09,690
of the TGA x' quote educational letter

199
00:10:06,809 --> 00:10:14,849
and quote almost six months after making

200

00:10:09,690 --> 00:10:19,230
my complaint 51 or 49 percent of the 104

201
00:10:14,850 --> 00:10:22,170
advertiser web sites were unchanged 12

202
00:10:19,230 --> 00:10:25,529
or 12 percent have removed some claims

203
00:10:22,169 --> 00:10:28,379
and 41 39 percent have removed all the

204
00:10:25,529 --> 00:10:31,490
claims i alleged breach the therapeutics

205
00:10:28,379 --> 00:10:33,779
goods advertising code

206
00:10:31,490 --> 00:10:42,409
maybe that's Ken Harvey now in that

207
00:10:33,779 --> 00:10:45,829
airplane flying above me we read on thus

208
00:10:42,409 --> 00:10:48,449
61 of the websites complained about

209
00:10:45,830 --> 00:10:51,389
continue to make misleading and

210
00:10:48,450 --> 00:10:53,700
deceptive claims which I allege brief

211
00:10:51,389 --> 00:10:56,819
both the therapeutics goods

212
00:10:53,700 --> 00:10:59,730
advertising code and Australian Consumer

213
00:10:56,820 --> 00:11:02,300
Law the critique by Commissioner Haynes

214
00:10:59,730 --> 00:11:05,519

on the regulator's of the financial

215

00:11:02,299 --> 00:11:08,819

services industry is equally applicable

216

00:11:05,519 --> 00:11:10,980

to the TGA and the a triple C a failure

217

00:11:08,820 --> 00:11:13,200

to enforce the law undermines the

218

00:11:10,980 --> 00:11:15,720

authority of the regulator whose

219

00:11:13,200 --> 00:11:18,180

fundamental responsibility is to do just

220

00:11:15,720 --> 00:11:21,830

that it also encourages others to break

221

00:11:18,179 --> 00:11:24,750

the law leading to a race to the bottom

222

00:11:21,830 --> 00:11:27,450

further action is required

223

00:11:24,750 --> 00:11:29,639

given the TJ's abdication of their

224

00:11:27,450 --> 00:11:32,040

responsibilities I have now written to

225

00:11:29,639 --> 00:11:33,990

the a Triple C requesting that they

226

00:11:32,039 --> 00:11:36,750

publish a warning to consumers about

227

00:11:33,990 --> 00:11:40,080

misleading and deceptive therapeutics

228

00:11:36,750 --> 00:11:43,559

claims made about ear candles on their

229
00:11:40,080 --> 00:11:45,330
scam watch website and as an aside

230
00:11:43,559 --> 00:11:48,419
that's a good site to check out folks

231
00:11:45,330 --> 00:11:50,790
scam watch and there is a link on this

232
00:11:48,419 --> 00:11:53,549
page to scam watch when you read on I

233
00:11:50,789 --> 00:11:55,829
have also suggested they send this

234
00:11:53,549 --> 00:11:58,169
information to those organizations whose

235
00:11:55,830 --> 00:12:00,629
members are mainly responsible for these

236
00:11:58,169 --> 00:12:02,699
advertisements in addition the a triple

237
00:12:00,629 --> 00:12:05,490
C should consider pursuing an

238
00:12:02,700 --> 00:12:08,970
illustrative court case against a large

239
00:12:05,490 --> 00:12:11,820
company such as chemists warehouse who

240
00:12:08,970 --> 00:12:14,070
continue to make misleading claims about

241
00:12:11,820 --> 00:12:18,090
ear candles despite having received the

242
00:12:14,070 --> 00:12:20,330
TG A's quote educational letter main

243
00:12:18,090 --> 00:12:20,330
quote

244
00:12:20,799 --> 00:12:26,429
and I note that there's a comment on

245
00:12:23,799 --> 00:12:29,439
this page from mal Vickers a well-known

246
00:12:26,429 --> 00:12:33,309
Victorian skeptic and Mao says Us

247
00:12:29,440 --> 00:12:35,980
website has some excellent information

248
00:12:33,309 --> 00:12:38,409
on ear candling they state there are no

249
00:12:35,980 --> 00:12:41,670
known therapeutic benefits for any

250
00:12:38,409 --> 00:12:44,679
candles and there are risks to consider

251
00:12:41,669 --> 00:12:47,649
part of dripping wax is an obvious burn

252
00:12:44,679 --> 00:12:51,729
risk however quack watch also mentions

253
00:12:47,649 --> 00:12:54,940
two instances of house fires linked to

254
00:12:51,730 --> 00:12:58,509
ear candles one of which resulted in

255
00:12:54,940 --> 00:13:00,940
death and you can read that for yourself

256
00:12:58,509 --> 00:13:03,309
pal and linked in this week's of show

257

00:13:00,940 --> 00:13:09,149
notes and while you're there you can

258
00:13:03,309 --> 00:13:09,149
also read lots more from dr. ken Harvey

259
00:13:14,049 --> 00:13:25,990
[Music]

260
00:13:22,528 --> 00:13:28,389
calling all skeptics or listeners do you

261
00:13:25,990 --> 00:13:30,789
live end or near high school are you

262
00:13:28,389 --> 00:13:33,069
planning to visit sometime then you're

263
00:13:30,789 --> 00:13:36,549
in luck because the Glasgow skeptics

264
00:13:33,070 --> 00:13:37,810
have got your Monday nights sorted we

265
00:13:36,549 --> 00:13:40,539
are committed to filling up every

266
00:13:37,809 --> 00:13:43,239
available Monday night talks on science

267
00:13:40,539 --> 00:13:45,370
and skepticism past speakers include

268
00:13:43,240 --> 00:13:47,829
Eugenie Scott Jerry Coyne make up

269
00:13:45,370 --> 00:13:50,289
Marshall Nate Phelps Tom and Cecil from

270
00:13:47,828 --> 00:13:53,379
cognitive dissonance PZ Myers Richard

271
00:13:50,289 --> 00:13:55,659

Wiseman EC grilling noir Heath and Eli

272

00:13:53,379 --> 00:13:58,659

from the scathing atheist Simon Singh

273

00:13:55,659 --> 00:14:01,569

Rebecca Watson and a multitude of local

274

00:13:58,659 --> 00:14:03,909

academics and skeptics there's literally

275

00:14:01,570 --> 00:14:04,629

nothing better you can do on a Monday in

276

00:14:03,909 --> 00:14:06,458

Glasgow

277

00:14:04,629 --> 00:14:09,399

it doesn't involve taking your clothes

278

00:14:06,458 --> 00:14:11,649

off so come join us we've also got a

279

00:14:09,399 --> 00:14:13,750

vibrant online community you can find us

280

00:14:11,649 --> 00:14:16,240

on Facebook Twitter and get involved

281

00:14:13,750 --> 00:14:20,190

with the discussion glasgow skeptics

282

00:14:16,240 --> 00:14:20,190

self-help for your brain

283

00:14:21,710 --> 00:14:28,918

[Music]

284

00:14:31,870 --> 00:14:49,360

life is wild with Michelle Franklin

285

00:14:42,980 --> 00:14:52,100

[Music]

286
00:14:49,360 --> 00:14:53,899
hi guys I just wanted to do a quick

287
00:14:52,100 --> 00:14:56,300
follow-up from my last report about the

288
00:14:53,899 --> 00:14:58,309
EMU war and all the bad decisions that

289
00:14:56,299 --> 00:15:01,129
happen when non ecologist try to do

290
00:14:58,309 --> 00:15:03,529
ecology same thing goes for politicians

291
00:15:01,129 --> 00:15:05,210
and recently people following the news

292
00:15:03,529 --> 00:15:07,639
in Australia may have noticed a certain

293
00:15:05,210 --> 00:15:09,379
politician who has a history of speaking

294
00:15:07,639 --> 00:15:12,169
out against people who aren't from here

295
00:15:09,379 --> 00:15:14,149
and now she's getting rather excited

296
00:15:12,169 --> 00:15:17,329
about her new plan to defend the country

297
00:15:14,149 --> 00:15:18,889
from animals that aren't from here but

298
00:15:17,330 --> 00:15:21,680
she's not talking about funding research

299
00:15:18,889 --> 00:15:23,899
or introducing better management policy

300
00:15:21,679 --> 00:15:26,209
it's much more fun than that she wants

301
00:15:23,899 --> 00:15:29,059
to have a cane toad muster and put a

302
00:15:26,210 --> 00:15:30,740
10-cent bounty on their heads for those

303
00:15:29,059 --> 00:15:33,559
who aren't familiar cane toads are a

304
00:15:30,740 --> 00:15:37,250
highly visible fast breeding invasive

305
00:15:33,559 --> 00:15:40,699
amphibian and they're not considered to

306
00:15:37,250 --> 00:15:43,009
be attractive by most people they're

307
00:15:40,700 --> 00:15:45,770
poisonous and they eat a lot and they're

308
00:15:43,009 --> 00:15:47,600
generally not good to have around they

309
00:15:45,769 --> 00:15:49,100
were introduced deliberately about 80

310
00:15:47,600 --> 00:15:51,259
years ago and they're spreading across

311
00:15:49,100 --> 00:15:53,570
the country and nothing so far seems to

312
00:15:51,259 --> 00:15:55,009
be able to stop them but the reason I

313
00:15:53,570 --> 00:15:57,230
bring them up today is because this

314

00:15:55,009 --> 00:15:58,159
politician has announced that she wants

315
00:15:57,230 --> 00:16:00,139
to get rid of them

316
00:15:58,159 --> 00:16:02,480
which is great but instead of focusing

317
00:16:00,139 --> 00:16:04,789
on the real research and progress that's

318
00:16:02,480 --> 00:16:07,730
happening in this area she just wants to

319
00:16:04,789 --> 00:16:10,759
go for the quick fix and pay people to

320
00:16:07,730 --> 00:16:12,470
go out there and get them it's great

321
00:16:10,759 --> 00:16:14,779
that she's enthusiastic about helping

322
00:16:12,470 --> 00:16:17,000
the situation but when people try to

323
00:16:14,779 --> 00:16:18,500
make changes to an animal population

324
00:16:17,000 --> 00:16:20,929
based on their complete lack of

325
00:16:18,500 --> 00:16:25,279
understanding it's not only wrong it's

326
00:16:20,929 --> 00:16:27,169
insulting for time immemorial scientists

327
00:16:25,279 --> 00:16:29,569
have been asking for funding to study

328
00:16:27,169 --> 00:16:31,459

various problems but instead of

329

00:16:29,570 --> 00:16:33,500
contributing to the actual useful

330

00:16:31,460 --> 00:16:35,269
knowledge and advancements some people

331

00:16:33,500 --> 00:16:37,850
think that they'll just bypass that

332

00:16:35,269 --> 00:16:40,610
process and just act on their own and

333

00:16:37,850 --> 00:16:43,460
use their own ideas instead it's the

334

00:16:40,610 --> 00:16:45,680
dunning-kruger effect where people watch

335

00:16:43,460 --> 00:16:47,450
one documentary or read one story about

336

00:16:45,679 --> 00:16:49,009
a problem and they feel like they're an

337

00:16:47,450 --> 00:16:51,070
expert and that they can solve the

338

00:16:49,009 --> 00:16:54,169
problem with their own ingenious ideas

339

00:16:51,070 --> 00:16:56,360
first of all no you won't second of all

340

00:16:54,169 --> 00:16:58,659
did you even google it before speaking

341

00:16:56,360 --> 00:17:01,220
cane toad musters have been done before

342

00:16:58,659 --> 00:17:04,009
repeatedly on a very large scale

343
00:17:01,220 --> 00:17:06,110
and we didn't have to pay people to do

344
00:17:04,009 --> 00:17:08,568
it they do it voluntarily all the time I

345
00:17:06,109 --> 00:17:10,458
remember doing it as a kid and so does

346
00:17:08,568 --> 00:17:12,799
Richard Saunders and I bet most

347
00:17:10,459 --> 00:17:15,578
Australians have been out there catching

348
00:17:12,799 --> 00:17:18,740
cane toads at some point in their past

349
00:17:15,578 --> 00:17:22,698
people still do it today and it doesn't

350
00:17:18,740 --> 00:17:24,259
work for years as the cane toad moved

351
00:17:22,699 --> 00:17:26,449
across the north of Australia we had

352
00:17:24,259 --> 00:17:29,089
extremely well-funded community groups

353
00:17:26,449 --> 00:17:30,800
that had all the equipment and resources

354
00:17:29,089 --> 00:17:33,409
necessary and they were going out in

355
00:17:30,799 --> 00:17:34,940
force to collect toads and they weren't

356
00:17:33,410 --> 00:17:36,890
just picking them up from around their

357
00:17:34,940 --> 00:17:38,660
houses or at the front of the pub and

358
00:17:36,890 --> 00:17:40,220
dropping them into the council which is

359
00:17:38,660 --> 00:17:42,769
what's been suggested in the media of

360
00:17:40,220 --> 00:17:44,600
late they were taking four-wheel drives

361
00:17:42,769 --> 00:17:46,279
and ATVs and heading out into remote

362
00:17:44,599 --> 00:17:48,469
areas and targeting large-scale

363
00:17:46,279 --> 00:17:51,619
collection efforts on specific targets

364
00:17:48,470 --> 00:17:54,730
and they collected a lot of toads and

365
00:17:51,619 --> 00:17:57,289
guess what they didn't catch them all

366
00:17:54,730 --> 00:17:59,390
they didn't reduce the population by any

367
00:17:57,289 --> 00:18:02,210
significant amount they didn't even slow

368
00:17:59,390 --> 00:18:04,520
down the invasion front this has been

369
00:18:02,210 --> 00:18:06,110
studied extensively and we have the

370
00:18:04,519 --> 00:18:09,259
evidence that shows that it just doesn't

371

00:18:06,109 --> 00:18:11,539
work at best these cane toad musters

372
00:18:09,259 --> 00:18:14,509
temporarily reduced the populations in

373
00:18:11,539 --> 00:18:16,399
small targeted areas and they drum up a

374
00:18:14,509 --> 00:18:17,890
bit of enthusiasm in the community for

375
00:18:16,400 --> 00:18:20,210
volunteering and helping the environment

376
00:18:17,890 --> 00:18:22,400
but it's an extremely high labor

377
00:18:20,210 --> 00:18:26,120
intensive activity with minimal payoff

378
00:18:22,400 --> 00:18:27,950
and the reason for these program fails

379
00:18:26,119 --> 00:18:29,929
and the reason that nobody bothers to

380
00:18:27,950 --> 00:18:32,299
suggest cane toad bounties anymore is

381
00:18:29,930 --> 00:18:35,420
because that's not how cane toad biology

382
00:18:32,299 --> 00:18:37,940
works placing bounties on some animals

383
00:18:35,420 --> 00:18:40,340
has succeeded in the past and with other

384
00:18:37,940 --> 00:18:41,960
animals it's failed it's really not as

385
00:18:40,339 --> 00:18:44,089

simple as just paying people to catch

386

00:18:41,960 --> 00:18:45,890

the animals that you don't want there's

387

00:18:44,089 --> 00:18:48,079

a very fine line between a culling

388

00:18:45,890 --> 00:18:49,850

program and a conservation program and

389

00:18:48,079 --> 00:18:53,240

paying people to collect and kill

390

00:18:49,849 --> 00:18:54,829

animals is also a well-known and well

391

00:18:53,240 --> 00:18:57,859

used principle in conservation

392

00:18:54,829 --> 00:18:59,809

it's called sustainable use you make an

393

00:18:57,859 --> 00:19:01,939

animal financially valuable to the

394

00:18:59,809 --> 00:19:03,679

people who control its habitat and those

395

00:19:01,940 --> 00:19:06,080

people will in turn to conserve it

396

00:19:03,680 --> 00:19:08,299

because it's valuable crocodiles are the

397

00:19:06,079 --> 00:19:10,279

perfect example of this their eggs are

398

00:19:08,299 --> 00:19:12,349

valuable because farms buy them to make

399

00:19:10,279 --> 00:19:14,109

leather they're for people who are in a

400
00:19:12,349 --> 00:19:16,419
land that's covered in crocodiles now

401
00:19:14,109 --> 00:19:18,099
value them and protect them rather than

402
00:19:16,420 --> 00:19:21,340
shooting them out and running cattle on

403
00:19:18,099 --> 00:19:24,159
their land instead for other animals

404
00:19:21,339 --> 00:19:26,709
bounties can be very successful take the

405
00:19:24,160 --> 00:19:29,048
thylacine for example sometimes called

406
00:19:26,710 --> 00:19:32,579
the tasmanian tiger although it's not a

407
00:19:29,048 --> 00:19:35,679
tiger and it's not only from tasmania

408
00:19:32,579 --> 00:19:38,710
thylacine x' breed slowly they invest a

409
00:19:35,679 --> 00:19:40,480
lot of energy in each baby and when you

410
00:19:38,710 --> 00:19:42,548
put a bounty on their heads they got

411
00:19:40,480 --> 00:19:45,819
wiped out that's not what's going to

412
00:19:42,548 --> 00:19:47,769
happen with toads when you walk around

413
00:19:45,819 --> 00:19:50,409
looking for toads to pick up you pretty

414
00:19:47,769 --> 00:19:52,720
much find all males they're brightly

415
00:19:50,410 --> 00:19:53,519
colored loud and they hop around out in

416
00:19:52,720 --> 00:19:55,720
the open

417
00:19:53,519 --> 00:19:57,730
females on the other hand are more

418
00:19:55,720 --> 00:19:59,980
reclusive they mostly sit in the water

419
00:19:57,730 --> 00:20:01,140
where people don't tend to go and they

420
00:19:59,980 --> 00:20:03,370
don't make a sound

421
00:20:01,140 --> 00:20:06,490
now the females are the ones that lay

422
00:20:03,369 --> 00:20:09,129
the eggs and it only takes one now to

423
00:20:06,490 --> 00:20:12,880
fertilize them all but even if you could

424
00:20:09,130 --> 00:20:14,890
catch 95% of them it wouldn't help cane

425
00:20:12,880 --> 00:20:17,320
toads are cannibals and they're also

426
00:20:14,890 --> 00:20:20,080
prolific breeders which means that the

427
00:20:17,319 --> 00:20:23,460
population is self-limiting each female

428

00:20:20,079 --> 00:20:25,119
lays up to 30,000 eggs and those eggs

429
00:20:23,460 --> 00:20:28,058
compete with each other

430
00:20:25,119 --> 00:20:30,159
toad tadpoles will eat toad eggs and

431
00:20:28,058 --> 00:20:33,069
young adult toads will eat baby toads

432
00:20:30,160 --> 00:20:35,679
and each piece of habitat has a set

433
00:20:33,069 --> 00:20:38,200
carrying capacity for toads and their

434
00:20:35,679 --> 00:20:40,440
ability to breed is significantly higher

435
00:20:38,200 --> 00:20:43,179
than the carrying capacity for that

436
00:20:40,440 --> 00:20:45,250
habitat so it doesn't matter if there

437
00:20:43,179 --> 00:20:47,950
are 50 females in the area or if there

438
00:20:45,250 --> 00:20:50,069
are two the same number of babies will

439
00:20:47,950 --> 00:20:52,390
be recruited into the next generation

440
00:20:50,069 --> 00:20:54,279
yes there are some situations where

441
00:20:52,390 --> 00:20:56,710
mounties work amuse and thylacines are

442
00:20:54,279 --> 00:20:59,529

the good example of that but the method

443

00:20:56,710 --> 00:21:02,079

of control for an animal depends so much

444

00:20:59,529 --> 00:21:04,690

on the biology of that animal and the

445

00:21:02,079 --> 00:21:06,849

ecology of the whole system we have

446

00:21:04,690 --> 00:21:09,070

experts who are all too willing to help

447

00:21:06,849 --> 00:21:11,109

and this is the thing that grates me the

448

00:21:09,069 --> 00:21:13,359

most about this situation it's not

449

00:21:11,109 --> 00:21:15,519

difficult to find out to know the

450

00:21:13,359 --> 00:21:17,829

in-depth biology of the cane toad versus

451

00:21:15,519 --> 00:21:20,230

the EMU verse at the crocodile vs isla

452

00:21:17,829 --> 00:21:23,079

scene and to know when a bounty would

453

00:21:20,230 --> 00:21:24,400

help the situation and when putting a

454

00:21:23,079 --> 00:21:27,529

value on them would actually increase

455

00:21:24,400 --> 00:21:29,150

the population but I would expect

456

00:21:27,529 --> 00:21:31,279

that a person who claims to have the

457
00:21:29,150 --> 00:21:33,650
answer would at least look into it and

458
00:21:31,279 --> 00:21:35,420
find out what's been tried and asked if

459
00:21:33,650 --> 00:21:37,610
you experts what they think before

460
00:21:35,420 --> 00:21:41,240
making a dumbass suggestion that's never

461
00:21:37,609 --> 00:21:43,429
going to work oh and also if this

462
00:21:41,240 --> 00:21:45,019
particular politician is gonna try to be

463
00:21:43,430 --> 00:21:47,450
an environmentalist all of a sudden

464
00:21:45,019 --> 00:21:49,519
she'd go a long way to just accept that

465
00:21:47,450 --> 00:21:51,080
climate change is real and stop getting

466
00:21:49,519 --> 00:21:53,250
in the way of the people who are trying

467
00:21:51,079 --> 00:21:58,889
to do something about it

468
00:21:53,250 --> 00:21:58,890
[Music]

469
00:21:59,289 --> 00:22:04,819
greetings listeners it's me Captain

470
00:22:02,480 --> 00:22:07,460
disillusion on my youtube channel called

471
00:22:04,819 --> 00:22:09,710
captain of dissolution aye captain

472
00:22:07,460 --> 00:22:11,750
disillusion analyzed viral videos of the

473
00:22:09,710 --> 00:22:14,240
strange and unbelievable I explained how

474
00:22:11,750 --> 00:22:16,220
interframe video compression 3d motion

475
00:22:14,240 --> 00:22:18,289
tracking and stock the effects elements

476
00:22:16,220 --> 00:22:20,839
proved that Justin Bieber is not a

477
00:22:18,289 --> 00:22:22,849
secret reptilian alien that those videos

478
00:22:20,839 --> 00:22:24,859
of ghost cars are just unintentional

479
00:22:22,849 --> 00:22:26,599
optical illusions and that lightning did

480
00:22:24,859 --> 00:22:28,429
not strike a few feet away from a girl

481
00:22:26,599 --> 00:22:31,129
on a beach as we saw in the news I'm

482
00:22:28,430 --> 00:22:34,970
real fun at parties my best friend is a

483
00:22:31,130 --> 00:22:36,920
lens flare disillusion I dunno other

484
00:22:34,970 --> 00:22:39,529
people sometimes they even show up in my

485

00:22:36,920 --> 00:22:41,509
videos people like skepticisms grandpa

486
00:22:39,529 --> 00:22:44,389
James Randi serve de Soleil Acrobat

487
00:22:41,509 --> 00:22:46,549
Erica Lin's weight loss enthusiast Penn

488
00:22:44,390 --> 00:22:48,650
Jillette and the actual Beekman from

489
00:22:46,549 --> 00:22:50,690
Beakman's world I hope you'll check out

490
00:22:48,650 --> 00:22:52,850
my adventures interact with me in a

491
00:22:50,690 --> 00:22:55,670
platonic way and even consider becoming

492
00:22:52,849 --> 00:22:58,250
a patron of my work you can do all that

493
00:22:55,670 --> 00:23:01,630
and more on YouTube or at Captain

494
00:22:58,250 --> 00:23:01,630
disillusion calm

495
00:23:06,569 --> 00:23:24,579
hmm let's have some Trish and chips is

496
00:23:15,970 --> 00:23:26,500
Trish Han so I'm here at Sydney's

497
00:23:24,579 --> 00:23:29,589
skeptics in the pub standing in for

498
00:23:26,500 --> 00:23:31,119
Richard and or may not and I'm gonna be

499
00:23:29,589 --> 00:23:33,899

asking the question tonight and that

500

00:23:31,119 --> 00:23:36,309

question is why is there such cynicism

501

00:23:33,900 --> 00:23:38,980

towards climate change amongst the

502

00:23:36,309 --> 00:23:40,779

general public let's see how things go

503

00:23:38,980 --> 00:23:43,120

with me taking over temporarily for

504

00:23:40,779 --> 00:23:44,829

tonight so I'm here with the legendary

505

00:23:43,119 --> 00:23:49,239

Tim Mendham I exist

506

00:23:44,829 --> 00:23:52,899

I know so Tim what do you think of the

507

00:23:49,240 --> 00:23:55,089

question why are people so hesitant or

508

00:23:52,900 --> 00:23:57,460

cynical about climate change amongst the

509

00:23:55,089 --> 00:23:59,379

general public well I think it's a

510

00:23:57,460 --> 00:24:00,850

mistaken question actually I think most

511

00:23:59,380 --> 00:24:02,710

people are actually not cynical either

512

00:24:00,849 --> 00:24:04,589

from what I understand from the polls

513

00:24:02,710 --> 00:24:07,029

etc and certainly from talking to people

514
00:24:04,589 --> 00:24:08,980
let's go beyond skeptical circles but in

515
00:24:07,029 --> 00:24:11,200
general public I think most people agree

516
00:24:08,980 --> 00:24:14,610
that there is an issue with climate

517
00:24:11,200 --> 00:24:17,110
change with anthropogenic global warming

518
00:24:14,609 --> 00:24:19,329
etc right that people do accept that

519
00:24:17,109 --> 00:24:21,599
it's happening and they want something

520
00:24:19,329 --> 00:24:23,859
to be done right I mean the fact that

521
00:24:21,599 --> 00:24:25,629
there's a number of politicians and

522
00:24:23,859 --> 00:24:26,619
shock jocks and people like that who are

523
00:24:25,630 --> 00:24:29,650
making a loud noise

524
00:24:26,619 --> 00:24:31,569
I think beyond their numbers basically

525
00:24:29,650 --> 00:24:34,360
so I would say while people might be

526
00:24:31,569 --> 00:24:36,159
confused and certainly you get into the

527
00:24:34,359 --> 00:24:38,319
you don't have to get very far e to the

528
00:24:36,160 --> 00:24:40,300
scientific details to get confused it's

529
00:24:38,319 --> 00:24:41,919
well beyond the the can of those people

530
00:24:40,299 --> 00:24:43,169
but the thing to ask

531
00:24:41,920 --> 00:24:45,870
as far as

532
00:24:43,170 --> 00:24:47,880
farmers all of them agree that this is

533
00:24:45,869 --> 00:24:49,529
happening and then it's an issue because

534
00:24:47,880 --> 00:24:50,880
that's being they saying and absolutely

535
00:24:49,529 --> 00:24:53,009
then they're seeing over the last twenty

536
00:24:50,880 --> 00:24:55,350
years and they're not known to be a sort

537
00:24:53,009 --> 00:24:57,629
of lefties act of has set cetera because

538
00:24:55,349 --> 00:24:59,669
I point that but I think you know that's

539
00:24:57,630 --> 00:25:00,930
what I see all the time and I've seen

540
00:24:59,670 --> 00:25:03,029
some of the evidence a lot of the

541
00:25:00,930 --> 00:25:05,910
evidence a lot of the time being on the

542

00:25:03,029 --> 00:25:07,139
front line being legendary that that are

543
00:25:05,910 --> 00:25:08,759
people who approached me all the time

544
00:25:07,140 --> 00:25:12,210
but with their theories and with their

545
00:25:08,759 --> 00:25:14,700
criticisms amongst the skeptics advanced

546
00:25:12,210 --> 00:25:15,960
majority skeptics accept that climate

547
00:25:14,700 --> 00:25:18,289
change is an issue is happening and

548
00:25:15,960 --> 00:25:20,640
something needs to be done vast majority

549
00:25:18,289 --> 00:25:22,230
but there are always a number of fairly

550
00:25:20,640 --> 00:25:23,880
loud people and people who claim

551
00:25:22,230 --> 00:25:26,069
scientific expertise and some of them

552
00:25:23,880 --> 00:25:29,250
have it right who put forward theories

553
00:25:26,069 --> 00:25:32,279
and lists and the and criticize the

554
00:25:29,250 --> 00:25:33,750
suppose at 97% of scientists or

555
00:25:32,279 --> 00:25:35,220
climatologist who accept that it's

556
00:25:33,750 --> 00:25:36,059

happening and so there are a lot of

557

00:25:35,220 --> 00:25:38,220
others who don't

558

00:25:36,059 --> 00:25:40,169
here's one in particular I got a list

559

00:25:38,220 --> 00:25:42,120
centimeters recently and it's referred

560

00:25:40,170 --> 00:25:43,430
to many many times in anti climate

561

00:25:42,119 --> 00:25:46,769
change because you have three hundred

562

00:25:43,430 --> 00:25:48,600
very well-known noted scientists who

563

00:25:46,769 --> 00:25:51,059
were saith rubbish and you go through

564

00:25:48,599 --> 00:25:52,529
the list it's not hard to do you realize

565

00:25:51,059 --> 00:25:55,859
that most of them are not climatologist

566

00:25:52,529 --> 00:25:57,000
in fact very few a climatologist and

567

00:25:55,859 --> 00:25:59,879
that a lot of them don't have any

568

00:25:57,000 --> 00:26:02,190
qualifications or any listed background

569

00:25:59,880 --> 00:26:04,200
or credentials of any sort and amongst

570

00:26:02,190 --> 00:26:06,509
thing is at least one creationist amazed

571
00:26:04,200 --> 00:26:08,580
the creationist foundation even though

572
00:26:06,509 --> 00:26:09,779
it just surprises me that this list is

573
00:26:08,579 --> 00:26:11,129
being quoted by people that have

574
00:26:09,779 --> 00:26:13,230
scientific bent or even worse or

575
00:26:11,130 --> 00:26:14,790
skeptical been now I'm sure there's a

576
00:26:13,230 --> 00:26:17,160
lot of genuine people out there who had

577
00:26:14,789 --> 00:26:19,440
concerns about the climate change theory

578
00:26:17,160 --> 00:26:21,330
who object to it and there's obviously a

579
00:26:19,440 --> 00:26:23,279
lot of political issues in there a lot

580
00:26:21,329 --> 00:26:27,269
of economic issues a lot of economic

581
00:26:23,279 --> 00:26:28,769
philosophy and frankly free market as

582
00:26:27,269 --> 00:26:29,940
opposed to interventionist sort of

583
00:26:28,769 --> 00:26:32,000
activities that sort of thing

584
00:26:29,940 --> 00:26:34,019
climate change is a very interventionist

585
00:26:32,000 --> 00:26:36,000
situation a lot of people just object to

586
00:26:34,019 --> 00:26:38,430
that on principle that's their that's

587
00:26:36,000 --> 00:26:40,799
their option of course but at the same

588
00:26:38,430 --> 00:26:42,759
time you can't the science is not open

589
00:26:40,799 --> 00:26:46,569
to a political debate

590
00:26:42,759 --> 00:26:48,579
yeah I completely agree thank you oh and

591
00:26:46,569 --> 00:26:50,200
look who's just walking in I believe

592
00:26:48,579 --> 00:26:52,058
that might be just like a singer on the

593
00:26:50,200 --> 00:26:55,120
horizon it is I yes

594
00:26:52,058 --> 00:26:56,619
so the toilets question is why do you

595
00:26:55,119 --> 00:26:58,689
think there's a hesitancy or cynicism

596
00:26:56,619 --> 00:27:00,668
around accepting the climate change

597
00:26:58,690 --> 00:27:04,179
amongst the general public well my

598
00:27:00,669 --> 00:27:06,250
counter question would be is there is

599

00:27:04,179 --> 00:27:08,410
there we're constantly being told

600
00:27:06,250 --> 00:27:10,929
there's a cynicism and nobody believes

601
00:27:08,410 --> 00:27:15,610
it but the people who are telling us

602
00:27:10,929 --> 00:27:19,059
that the revered climate change deniers

603
00:27:15,609 --> 00:27:22,319
so are they peddling their own agenda is

604
00:27:19,058 --> 00:27:25,990
it true drinking their own kool-aid yeah

605
00:27:22,319 --> 00:27:29,589
interesting okay and would you like to

606
00:27:25,990 --> 00:27:32,859
answer that question um why is there

607
00:27:29,589 --> 00:27:36,189
cynicism and what was the question again

608
00:27:32,859 --> 00:27:39,250
I think the question being you know are

609
00:27:36,190 --> 00:27:41,590
there is there a cynicism at all Soji oh

610
00:27:39,250 --> 00:27:43,690
look I certainly I certainly think some

611
00:27:41,589 --> 00:27:50,048
people denied I have a colleague at work

612
00:27:43,690 --> 00:27:53,470
who is an avid denier and I just have to

613
00:27:50,048 --> 00:27:56,408

walk away but

614

00:27:53,470 --> 00:27:59,909

most of the people I know and I don't

615

00:27:56,409 --> 00:28:03,700

think it's just my own echo-chamber

616

00:27:59,909 --> 00:28:05,950

most people I know think that yes

617

00:28:03,700 --> 00:28:07,750

and troponin and tropical i'mot change

618

00:28:05,950 --> 00:28:11,288

is happening

619

00:28:07,750 --> 00:28:13,028

I met my cousin who comes from Victoria

620

00:28:11,288 --> 00:28:15,940

and she grew up in the country for lunch

621

00:28:13,028 --> 00:28:21,159

today and she's driven up from Victoria

622

00:28:15,940 --> 00:28:26,740

to to Sydney through the bush and she

623

00:28:21,159 --> 00:28:28,840

says it's changed yeah things are

624

00:28:26,740 --> 00:28:30,490

different and yeah look at the Murray

625

00:28:28,839 --> 00:28:31,569

dirt or look look what's happening with

626

00:28:30,490 --> 00:28:33,190

the Murray Darling Basin

627

00:28:31,569 --> 00:28:36,189

look what's happening with the bushfire

628
00:28:33,190 --> 00:28:38,740
season looks look what the wine growers

629
00:28:36,190 --> 00:28:40,870
are saying about the temperature changes

630
00:28:38,740 --> 00:28:42,878
and how it's affecting their the the

631
00:28:40,869 --> 00:28:46,709
crops and the varieties that they can

632
00:28:42,878 --> 00:28:49,599
grow I mean there's all this information

633
00:28:46,710 --> 00:28:52,269
and evidence out there pointing pointing

634
00:28:49,599 --> 00:28:59,769
that way absolutely all right Jessica

635
00:28:52,269 --> 00:29:00,388
shrugs what are your thoughts on the

636
00:28:59,769 --> 00:29:05,230
subject

637
00:29:00,388 --> 00:29:08,918
well you can't trust anyone whose income

638
00:29:05,230 --> 00:29:12,659
depends on furthering a particular point

639
00:29:08,919 --> 00:29:12,659
of view you see

640
00:29:13,109 --> 00:29:19,869
so who are you mentioning that whose

641
00:29:17,170 --> 00:29:24,130
income I mean there's many people mainly

642
00:29:19,869 --> 00:29:27,239
people on many sides on many sides it's

643
00:29:24,130 --> 00:29:33,850
a hexagon of basically just scientists

644
00:29:27,240 --> 00:29:43,210
summoning funding from the walk of the

645
00:29:33,849 --> 00:29:44,169
earth sorry Richard I have no idea what

646
00:29:43,210 --> 00:29:47,110
that was about

647
00:29:44,170 --> 00:29:49,300
okay so I'm sitting with Gideon who is

648
00:29:47,109 --> 00:29:52,209
an epidemiologist I understand that's a

649
00:29:49,299 --> 00:29:54,490
fact yeah what are your thoughts on

650
00:29:52,210 --> 00:29:56,680
tonight's question I my thoughts are

651
00:29:54,490 --> 00:29:59,559
that most people are hesitant to accept

652
00:29:56,680 --> 00:30:01,539
climate change because it is more

653
00:29:59,559 --> 00:30:06,460
convenient to not accept climate change

654
00:30:01,539 --> 00:30:10,149
it is more expensive to go green and it

655
00:30:06,460 --> 00:30:11,920
is more difficult and we all like to

656

00:30:10,150 --> 00:30:15,070
believe things are easy even when they

657
00:30:11,920 --> 00:30:18,120
rarely are okay fair enough so kind of a

658
00:30:15,069 --> 00:30:19,839
libertarian angle sort of thing yeah

659
00:30:18,119 --> 00:30:21,879
libertarianism and just the general

660
00:30:19,839 --> 00:30:27,039
blindness we all have towards things

661
00:30:21,880 --> 00:30:28,570
that we don't want to hear so Richard

662
00:30:27,039 --> 00:30:30,759
tonight's question should actually be

663
00:30:28,569 --> 00:30:32,889
wire skeptics and the pub goes so

664
00:30:30,759 --> 00:30:34,629
hesitant to talk to me when I hold a

665
00:30:32,890 --> 00:30:36,700
picture of you in front of their face

666
00:30:34,630 --> 00:30:39,790
and thrust my phone's microphone under

667
00:30:36,700 --> 00:30:42,549
their nose Who am I talking to it's Ben

668
00:30:39,789 --> 00:30:44,418
McEvoy here and so the question is why

669
00:30:42,549 --> 00:30:46,759
is the general public so hesitant

670
00:30:44,419 --> 00:30:49,560

except climate change because I can't

671

00:30:46,759 --> 00:30:52,710
believe it's got holiday

672

00:30:49,559 --> 00:30:52,710
fair enough

673

00:30:52,920 --> 00:30:55,999
[Music]

674

00:30:58,779 --> 00:31:09,460
[Music]

675

00:31:05,940 --> 00:31:11,400
hi this is Heidi Robertson from the

676

00:31:09,460 --> 00:31:14,279
Northern Rivers vaccination supporters

677

00:31:11,400 --> 00:31:16,900
we are a group of concerned citizens

678

00:31:14,279 --> 00:31:19,480
dedicated to promoting good science and

679

00:31:16,900 --> 00:31:22,600
common sense in our region the far north

680

00:31:19,480 --> 00:31:24,160
coast of New South Wales this area are

681

00:31:22,599 --> 00:31:27,490
famous for its natural beauty and

682

00:31:24,160 --> 00:31:30,850
relaxed lifestyle also has the lowest

683

00:31:27,490 --> 00:31:33,130
rates of vaccination in Australia we are

684

00:31:30,849 --> 00:31:35,469
out to change that by challenging the

685
00:31:33,130 --> 00:31:37,150
myths and misinformation and by

686
00:31:35,470 --> 00:31:40,480
providing good evidence-based

687
00:31:37,150 --> 00:31:42,309
information to the community we'd love

688
00:31:40,480 --> 00:31:45,940
for you no matter where you are in the

689
00:31:42,308 --> 00:31:53,769
world to join our fight please visit our

690
00:31:45,940 --> 00:31:56,798
webpage at WWF info we also have a link

691
00:31:53,769 --> 00:31:59,470
there to our Facebook page tweet us at

692
00:31:56,798 --> 00:32:02,679
in our FAQs supporters

693
00:31:59,470 --> 00:32:04,919
that's vix and check us out on Wikipedia

694
00:32:02,679 --> 00:32:09,660
by searching for Northern Rivers

695
00:32:04,919 --> 00:32:09,660
vaccination supporters thank you

696
00:32:10,549 --> 00:32:30,480
[Music]

697
00:32:27,619 --> 00:32:32,639
from the pages of the skeptic magazine

698
00:32:30,480 --> 00:32:40,730
in the journal from Australian skeptics

699
00:32:32,640 --> 00:32:44,580
this is a winter 1988 or vol 8 number 2

700
00:32:40,730 --> 00:32:48,329
turning to page 27 under the title of

701
00:32:44,579 --> 00:32:57,179
alternative medicine quackery by Richard

702
00:32:48,329 --> 00:33:01,799
Gordon the first charlatan was made when

703
00:32:57,180 --> 00:33:04,259
the first knave met the first fool there

704
00:33:01,799 --> 00:33:07,680
are four interesting questions to pose

705
00:33:04,259 --> 00:33:11,640
concerning quackery one

706
00:33:07,680 --> 00:33:15,420
what is quackery - why do quack remedies

707
00:33:11,640 --> 00:33:20,330
seem to work 3 why do people go to

708
00:33:15,420 --> 00:33:24,509
quacks 4 what is the harm in quackery

709
00:33:20,329 --> 00:33:27,539
what is quackery a quack as a person who

710
00:33:24,509 --> 00:33:30,450
deliberately misrepresents himself as

711
00:33:27,539 --> 00:33:34,619
possessing medical or other healing

712
00:33:30,450 --> 00:33:37,470
skills which he lacks a quick remedy is

713

00:33:34,619 --> 00:33:39,839
one which is promised to offer a cure

714
00:33:37,470 --> 00:33:43,319
although there is no scientific evidence

715
00:33:39,839 --> 00:33:46,970
for this claim the term quack originally

716
00:33:43,319 --> 00:33:49,980
meant quote to prattle or brag unquote

717
00:33:46,970 --> 00:33:53,339
quackery thrives in alternative medicine

718
00:33:49,980 --> 00:33:56,759
and is also present in Orthodox medicine

719
00:33:53,339 --> 00:33:59,509
in Orthodox medicine the cynical use of

720
00:33:56,759 --> 00:34:01,980
placebos is an example of quackery

721
00:33:59,509 --> 00:34:04,559
vitamins are a popular vehicle for

722
00:34:01,980 --> 00:34:08,070
quackery while vitamins are necessary

723
00:34:04,559 --> 00:34:11,639
for good health and excess dose does not

724
00:34:08,070 --> 00:34:13,920
quote stimulate end quote the system to

725
00:34:11,639 --> 00:34:16,679
greater heights nor can in excess

726
00:34:13,920 --> 00:34:19,019
increase the sense of well-being the

727
00:34:16,679 --> 00:34:21,419

reasoning that says quote if a little is

728

00:34:19,019 --> 00:34:24,690

good then large amounts must be better

729

00:34:21,420 --> 00:34:27,630

in quote is clearly flawed as food and

730

00:34:24,690 --> 00:34:30,300

alcohol so easily illustrate quacks

731

00:34:27,630 --> 00:34:33,570

often mix good advice with

732

00:34:30,300 --> 00:34:36,570

totally unfounded claims chiropractic is

733

00:34:33,570 --> 00:34:38,670

a good example of this mixture on one

734

00:34:36,570 --> 00:34:41,070

hand it uses spinal manipulation to

735

00:34:38,670 --> 00:34:42,869

treat muscular disorders and on the

736

00:34:41,070 --> 00:34:45,150

other hand we do use a spinal

737

00:34:42,869 --> 00:34:48,509

manipulation to treat asthma

738

00:34:45,150 --> 00:34:50,789

why do quack remedy seem to work the

739

00:34:48,510 --> 00:34:54,330

reasons for the apparent success of

740

00:34:50,789 --> 00:34:57,360

quack remedies are a the patient's

741

00:34:54,329 --> 00:34:59,909

belief that the Cure work often coupled

742
00:34:57,360 --> 00:35:04,559
with the financial commitment and a

743
00:34:59,909 --> 00:35:07,259
desire not to feel cheated be the power

744
00:35:04,559 --> 00:35:10,529
of the quacks personality many famous

745
00:35:07,260 --> 00:35:13,740
quacks were and are outstanding showman

746
00:35:10,530 --> 00:35:16,200
many have paranoid delusional beliefs in

747
00:35:13,739 --> 00:35:20,159
their own powers a case of the psychotic

748
00:35:16,199 --> 00:35:23,159
leading the neurotic see spontaneous

749
00:35:20,159 --> 00:35:26,699
recovery which characterizes most minor

750
00:35:23,159 --> 00:35:30,179
illnesses many major illnesses and a few

751
00:35:26,699 --> 00:35:32,849
very serious illnesses such as cancer in

752
00:35:30,179 --> 00:35:37,009
the last case spontaneous remission

753
00:35:32,849 --> 00:35:40,769
occurs rarely probably in one in every

754
00:35:37,010 --> 00:35:43,290
70,000 untreated cases most cracks add

755
00:35:40,769 --> 00:35:47,250
what is basically good advice on diet

756
00:35:43,289 --> 00:35:49,739
exercise etc to their quack remedies it

757
00:35:47,250 --> 00:35:52,980
is the good advice if anything that

758
00:35:49,739 --> 00:35:55,229
benefits the patient but it is often the

759
00:35:52,980 --> 00:35:58,889
quack remedy that carries the mystique

760
00:35:55,230 --> 00:36:01,110
and receives the credit when a person

761
00:35:58,889 --> 00:36:03,960
feels better after using a quack remedy

762
00:36:01,110 --> 00:36:07,530
the cure can have two explanations

763
00:36:03,960 --> 00:36:10,199
either the remedy exerts a real effect

764
00:36:07,530 --> 00:36:12,540
or it exerts what is known as the

765
00:36:10,199 --> 00:36:15,659
placebo effect if the effect is real

766
00:36:12,539 --> 00:36:18,539
then it will be possible to reliably

767
00:36:15,659 --> 00:36:22,409
demonstrate this effect to unbiased

768
00:36:18,539 --> 00:36:24,779
observers if the effect is a placebo it

769
00:36:22,409 --> 00:36:28,019
can be explained by the patient's desire

770

00:36:24,780 --> 00:36:31,140
to believe in the cure the word placebo

771
00:36:28,019 --> 00:36:33,960
is Latin meaning I shall be pleasing in

772
00:36:31,139 --> 00:36:36,869
certain conditions such as arthritis and

773
00:36:33,960 --> 00:36:39,539
gastritis over 50% of sufferers may

774
00:36:36,869 --> 00:36:42,750
report improvement when given quack

775
00:36:39,539 --> 00:36:43,889
remedies the best placebos are

776
00:36:42,750 --> 00:36:46,318
substances such

777
00:36:43,889 --> 00:36:48,929
as vitamins or antibiotics because

778
00:36:46,318 --> 00:36:50,639
people know that they can have genuine

779
00:36:48,929 --> 00:36:53,608
value in treating certain health

780
00:36:50,639 --> 00:36:55,889
problems every doctor will be familiar

781
00:36:53,608 --> 00:36:58,348
with the fact that many patients will

782
00:36:55,889 --> 00:37:01,199
report immediate improvement with

783
00:36:58,349 --> 00:37:03,930
antibiotic treatment even though a real

784
00:37:01,199 --> 00:37:06,989

effect on the infection could not have

785

00:37:03,929 --> 00:37:09,629
occurred so quickly it is obviously

786

00:37:06,989 --> 00:37:13,288
important to know whether a drug is

787

00:37:09,630 --> 00:37:16,680
exerting a real or placebo effect or a

788

00:37:13,289 --> 00:37:19,309
mixture of the two this is why placebos

789

00:37:16,679 --> 00:37:22,048
are used in evaluation of new drugs

790

00:37:19,309 --> 00:37:24,359
during the evaluation one group of

791

00:37:22,048 --> 00:37:26,548
subjects is treated with a real drug and

792

00:37:24,358 --> 00:37:27,358
the other group is treated with a

793

00:37:26,548 --> 00:37:30,088
placebo

794

00:37:27,358 --> 00:37:32,548
making sure that both types of drug look

795

00:37:30,088 --> 00:37:35,190
and taste the same it is then usual to

796

00:37:32,548 --> 00:37:37,768
swap the real and placebo drugs for the

797

00:37:35,190 --> 00:37:39,990
second half of the evaluation in this

798

00:37:37,768 --> 00:37:43,679
way it is possible to make allowances

799
00:37:39,989 --> 00:37:46,649
for any recibo effect why do people go

800
00:37:43,679 --> 00:37:49,098
to quacks ill-defined

801
00:37:46,650 --> 00:37:52,619
symptoms such as chronic tiredness

802
00:37:49,099 --> 00:37:55,619
headaches depression and vague pains are

803
00:37:52,619 --> 00:37:58,890
extremely common they may result from

804
00:37:55,619 --> 00:38:01,559
worry overworked and poor relationships

805
00:37:58,889 --> 00:38:04,259
with others people often hesitate to

806
00:38:01,559 --> 00:38:07,859
take such problem to doctors but quacks

807
00:38:04,259 --> 00:38:11,039
can trade heavily on these quote trivial

808
00:38:07,858 --> 00:38:13,828
and quote complaints because these

809
00:38:11,039 --> 00:38:16,559
symptoms can be an expression of

810
00:38:13,829 --> 00:38:18,839
problems that are difficult to solve it

811
00:38:16,559 --> 00:38:22,140
is much easier to focus on bogus

812
00:38:18,838 --> 00:38:26,190
diagnosis and follow mysterious cures

813
00:38:22,139 --> 00:38:28,858
than to face the real issues when people

814
00:38:26,190 --> 00:38:31,829
do take ill-defined symptoms to doctors

815
00:38:28,858 --> 00:38:35,098
they are understandably dissatisfied

816
00:38:31,829 --> 00:38:38,369
when the doctor merely excludes serious

817
00:38:35,099 --> 00:38:40,950
illnesses and reassures them that there

818
00:38:38,369 --> 00:38:42,930
is nothing serious to worry about the

819
00:38:40,949 --> 00:38:45,538
patient still has the problem and may

820
00:38:42,929 --> 00:38:48,298
continue to look for an explanation and

821
00:38:45,539 --> 00:38:51,390
some relief this narrow perspective

822
00:38:48,298 --> 00:38:54,119
called the quote medical model and quota

823
00:38:51,389 --> 00:38:56,429
of illness is an important failing of

824
00:38:54,119 --> 00:38:57,509
the medical profession quacks often

825
00:38:56,429 --> 00:39:01,318
trade under this

826
00:38:57,509 --> 00:39:04,579
play of caring which contrasts with the

827

00:39:01,318 --> 00:39:07,409
more detached behavior of some doctors

828
00:39:04,579 --> 00:39:10,289
patients who face a diagnosis of illness

829
00:39:07,409 --> 00:39:14,338
such as cancer or AIDS which may be

830
00:39:10,289 --> 00:39:16,949
incurable and/or terminal can turn away

831
00:39:14,338 --> 00:39:20,369
from Orthodox medicine in the desperate

832
00:39:16,949 --> 00:39:23,148
hope of a cure some people are attracted

833
00:39:20,369 --> 00:39:25,858
by the mystical approach such as

834
00:39:23,148 --> 00:39:30,388
astrological diagnosis hair analysis

835
00:39:25,858 --> 00:39:32,429
iridology or pyramid power laymen have

836
00:39:30,389 --> 00:39:34,858
difficulty in distinguishing between

837
00:39:32,429 --> 00:39:37,249
obtuse language in Orthodox medicine and

838
00:39:34,858 --> 00:39:41,880
obtuse language in alternative medicine

839
00:39:37,248 --> 00:39:43,948
what is the harm in quackery many

840
00:39:41,880 --> 00:39:48,209
alternative approaches seem harmless

841
00:39:43,949 --> 00:39:51,509

enough but the dangers are a the

842

00:39:48,208 --> 00:39:55,969
possibility of delaying diagnosis of

843

00:39:51,509 --> 00:39:59,699
serious disease B the possibility of

844

00:39:55,969 --> 00:40:04,168
interfering with effective treatment C

845

00:39:59,699 --> 00:40:07,648
the likely cost both of the quack cure

846

00:40:04,168 --> 00:40:11,818
itself and the delayed treatment with

847

00:40:07,648 --> 00:40:12,268
Orthodox cures D the raising of false

848

00:40:11,818 --> 00:40:14,579
hopes

849

00:40:12,268 --> 00:40:17,008
especially when an individual is in the

850

00:40:14,579 --> 00:40:20,669
process of coming to terms with a

851

00:40:17,009 --> 00:40:22,880
serious illness E the possibility that

852

00:40:20,668 --> 00:40:27,148
some crack cures are actually harmful

853

00:40:22,880 --> 00:40:31,289
laetrile contains cyanide vitamins A and

854

00:40:27,148 --> 00:40:32,880
D can be toxic in high doses it should

855

00:40:31,289 --> 00:40:35,189
not be forgotten that alternative

856
00:40:32,880 --> 00:40:37,380
medicine represents a multi-million

857
00:40:35,188 --> 00:40:40,288
dollar industry with interest groups

858
00:40:37,380 --> 00:40:42,079
ready to lobby for its expansion the

859
00:40:40,289 --> 00:40:45,028
vitamin industry is a good example

860
00:40:42,079 --> 00:40:47,068
putting it all into perspective the

861
00:40:45,028 --> 00:40:50,579
laetrile industry in the United States

862
00:40:47,068 --> 00:40:54,139
was estimated to be worth two billion

863
00:40:50,579 --> 00:40:57,028
dollars in California alone in 1981

864
00:40:54,139 --> 00:41:00,409
rivaling the heroin trade in that state

865
00:40:57,028 --> 00:41:04,159
little wonder that the modern-day nave

866
00:41:00,409 --> 00:41:07,159
pursues the modern-day fool with such

867
00:41:04,159 --> 00:41:07,159
enthusiasm

868
00:41:07,570 --> 00:41:12,230
dr. Richard Gordon is a family doctor

869
00:41:10,400 --> 00:41:14,420
and member of the Australian skeptics

870
00:41:12,230 --> 00:41:16,490
National Committee this article is a

871
00:41:14,420 --> 00:41:19,099
version of a talk delivered at the

872
00:41:16,489 --> 00:41:24,649
fourth annual skeptics convention held

873
00:41:19,099 --> 00:41:26,360
in Sydney during April 1988 and it's

874
00:41:24,650 --> 00:41:31,539
worth noting that dr. Richard Gordon

875
00:41:26,360 --> 00:41:35,000
went on to be for some time president of

876
00:41:31,539 --> 00:41:38,210
Australian skeptic seek and this article

877
00:41:35,000 --> 00:41:42,380
once again can be found in the pages of

878
00:41:38,210 --> 00:41:45,650
the skeptic magazine vol 8 number 2 and

879
00:41:42,380 --> 00:42:02,150
is available for you to view free online

880
00:41:45,650 --> 00:42:04,250
a skeptics comm dot a you the skeptic

881
00:42:02,150 --> 00:42:07,220
magazine the journal from Australian

882
00:42:04,250 --> 00:42:11,050
skeptics subscribe online to the world's

883
00:42:07,219 --> 00:42:14,389
second oldest skeptical magazine visit

884

00:42:11,050 --> 00:42:17,390
WWF XCOM value and click the

885
00:42:14,389 --> 00:42:21,799
publication's link you can also find

886
00:42:17,389 --> 00:42:24,949
there over 30 years on back issues free

887
00:42:21,800 --> 00:42:28,210
to download the skeptic magazine from

888
00:42:24,949 --> 00:42:28,210
Australian skeptics

889
00:42:30,619 --> 00:42:35,259
[Music]

890
00:42:39,320 --> 00:42:43,120
[Applause]

891
00:42:40,530 --> 00:42:46,050
thank you for listening to the skeptic

892
00:42:43,119 --> 00:42:47,500
zone if my voice seems a little bit

893
00:42:46,050 --> 00:42:50,519
flaky

894
00:42:47,500 --> 00:42:53,139
well I've guess I've just had a long day

895
00:42:50,519 --> 00:42:56,230
coming up next week I hope to bring you

896
00:42:53,139 --> 00:42:58,179
reports from Portland Oregon and Bend

897
00:42:56,230 --> 00:43:00,070
Oregon I'm flying up to visit my old

898
00:42:58,179 --> 00:43:06,519

friend Brian Dunning from the skeptoid

899

00:43:00,070 --> 00:43:09,190

podcast and I intend I hope to catch the

900

00:43:06,519 --> 00:43:11,409

show of oh no Ross and Kerry who are

901

00:43:09,190 --> 00:43:14,289

appearing in Portland Oregon next week

902

00:43:11,409 --> 00:43:17,379

and I will certainly bring you a report

903

00:43:14,289 --> 00:43:20,409

from that event a big thank you to Trish

904

00:43:17,380 --> 00:43:22,360

Hann who stepped in to cover skeptics in

905

00:43:20,409 --> 00:43:25,299

the pub Thank You Trish sincerely I

906

00:43:22,360 --> 00:43:27,970

really appreciate that and I'm thrilled

907

00:43:25,300 --> 00:43:29,920

to have you come aboard as a reporter on

908

00:43:27,969 --> 00:43:31,899

the sceptic zone thank you to those

909

00:43:29,920 --> 00:43:34,210

people who contribute with patreon or

910

00:43:31,900 --> 00:43:36,910

PayPal and to those people recently who

911

00:43:34,210 --> 00:43:40,599

have chipped in or come on board with

912

00:43:36,909 --> 00:43:44,099

patreon I will be sending you your bag

913
00:43:40,599 --> 00:43:47,500
of goodies soon things are a little bit

914
00:43:44,099 --> 00:43:50,380
strange for me at the moment I'm not in

915
00:43:47,500 --> 00:43:52,900
Australia but as soon as I can find that

916
00:43:50,380 --> 00:43:55,599
out your goodies will be on the way I

917
00:43:52,900 --> 00:43:59,050
miss being in Sydney although I must

918
00:43:55,599 --> 00:44:01,299
admit quite candidly I must admit I do

919
00:43:59,050 --> 00:44:03,640
not miss the heat and the humidity at

920
00:44:01,300 --> 00:44:05,950
this time of the year I am enjoying the

921
00:44:03,639 --> 00:44:08,440
cooler weather and wow I'm gonna cop

922
00:44:05,949 --> 00:44:10,509
some cooler weather next week in in

923
00:44:08,440 --> 00:44:12,159
Oregon but for this week

924
00:44:10,510 --> 00:44:18,730
this is Richard Saunders signing off

925
00:44:12,159 --> 00:44:20,529
from the San Francisco Bay Area you've

926
00:44:18,730 --> 00:44:23,159
been listening to the skeptic zone

927
00:44:20,530 --> 00:44:29,830
podcast please visit our website at

928
00:44:23,159 --> 00:44:33,359
wwlp.com tax and to access the bat

929
00:44:29,829 --> 00:44:36,009
catalog of episodes going back to 2008

930
00:44:33,360 --> 00:44:39,309
you can follow the skeptic zone podcast

931
00:44:36,010 --> 00:44:41,590
on twitter at skeptic zone visit our

932
00:44:39,309 --> 00:44:42,889
facebook page or leave a review on

933
00:44:41,590 --> 00:44:45,140
itunes

934
00:44:42,889 --> 00:44:48,529
you can also support the sceptic zone

935
00:44:45,139 --> 00:44:51,920
via patreon or PayPal the sceptic zone

936
00:44:48,530 --> 00:44:53,630
podcast is an independent production the

937
00:44:51,920 --> 00:44:55,760
views and opinions expressed on the

938
00:44:53,630 --> 00:44:58,099
sceptic zone are not necessarily those

939
00:44:55,760 --> 00:44:59,900
of Australian skeptics or any other

940
00:44:58,099 --> 00:45:06,210
skeptical organization

941

00:44:59,900 --> 00:45:06,210

[Music]

942

00:45:10,369 --> 00:45:19,859

hmm no matter where I record in the

943

00:45:13,710 --> 00:45:22,230

world there are aircraft noises amazing

944

00:45:19,860 --> 00:45:26,910

I'm nowhere near an airport I don't

945

00:45:22,230 --> 00:45:27,719

think good grief no wonder where that's

946

00:45:26,909 --> 00:45:31,969

going

947

00:45:27,719 --> 00:45:31,969

maybe it's flying to Australia who knows

948

00:45:32,489 --> 00:45:37,118

hard dice phones I've not forgotten you

949

00:45:35,559 --> 00:45:38,739

it's been a little while since we've

950

00:45:37,119 --> 00:45:44,320

played the dice game nevertheless here

951

00:45:38,739 --> 00:45:47,259

it is as I sit by a a cozy fireside with

952

00:45:44,320 --> 00:45:51,010

a gas fire looks real well it is real

953

00:45:47,260 --> 00:45:55,030

it's a real fire bits guess not wood and

954

00:45:51,010 --> 00:45:56,890

I have with me a tin sided die I want

955

00:45:55,030 --> 00:46:00,880

you to use your psychic predicting power

956

00:45:56,889 --> 00:46:01,868

and see if you can predict what numbers

957

00:46:00,880 --> 00:46:05,559

are gonna come up I'm gonna roll it

958

00:46:01,869 --> 00:46:10,240

three times three times are you

959

00:46:05,559 --> 00:46:14,309

predicting first number is four the

960

00:46:10,239 --> 00:46:18,759

first number is four okay predict again

961

00:46:14,309 --> 00:46:22,989

from one to ten here we go second number

962

00:46:18,760 --> 00:46:30,030

is eight four and eight four and eight

963

00:46:22,989 --> 00:46:32,459

last number coming up is here we go ten

964

00:46:30,030 --> 00:46:35,859

there's a pattern there somewhere folks

965

00:46:32,460 --> 00:46:39,420

so this week's numbers are four eight

966

00:46:35,858 --> 00:46:39,420

and ten