

Episode 534

THE
**SKEPTIC
ZONE**
PODCAST

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13 Jan 2019

The Skeptic Zone Podcast

"Trish & Chips"
With Trish Hann



Episode **534** - 13 Jan 2019

Ear Candles - TGA Complaint

Michelle Franklin and
the Cane Toad problem

Trish & Chips
Skeptics in the Pub

What is Quackery?



1
00:00:11,910 --> 00:00:09,100
welcome to the skeptic zone the podcast

2
00:00:23,110 --> 00:00:11,920
from Australia for science and reason

3
00:00:26,000 --> 00:00:23,120
[Music]

4
00:00:29,720 --> 00:00:26,010
yes it's the skeptic zone podcast

5
00:00:33,080 --> 00:00:29,730
episode number 534 for the 13th of

6
00:00:35,540 --> 00:00:33,090
January 2019 richardsaunders he with you

7
00:00:38,150 --> 00:00:35,550
coming again once again from the Bay

8
00:00:40,910 --> 00:00:38,160
Area San Francisco I'm having an

9
00:00:44,240 --> 00:00:40,920
extended stay in the United States at

10
00:00:47,479 --> 00:00:44,250
the moment due to well pressing family

11
00:00:50,330 --> 00:00:47,489
reasons we're working to make sure

12
00:00:53,150 --> 00:00:50,340
everything is as good as it can be at

13
00:00:55,970 --> 00:00:53,160

the moment but what a pleasure it is to

14

00:00:58,910 --> 00:00:55,980

be in the Bay Area one of my favorite

15

00:01:00,979 --> 00:00:58,920

places in the world coming up on this

16

00:01:03,170 --> 00:01:00,989

week's show and owing to the fact that

17

00:01:06,680 --> 00:01:03,180

things are slightly different at the

18

00:01:09,080 --> 00:01:06,690

moment for me personally a little a

19

00:01:11,719 --> 00:01:09,090

little shorter this week than normal I

20

00:01:14,030 --> 00:01:11,729

hope you understand we're gonna kick off

21

00:01:17,090 --> 00:01:14,040

with a report from Ken Harvey dr. ken

22

00:01:20,120 --> 00:01:17,100

Harvey one of our favorite people who is

23

00:01:22,400 --> 00:01:20,130

known as a serial complainer and this is

24

00:01:25,550 --> 00:01:22,410

all about his complaints to the

25

00:01:31,719 --> 00:01:25,560

government authorities about ear

26

00:01:34,460 --> 00:01:31,729

candling oh my goodness me ear candling

27

00:01:37,160 --> 00:01:34,470

forgive me while my brain goes on

28

00:01:39,020 --> 00:01:37,170

holiday ear candling is one of the most

29

00:01:43,820 --> 00:01:39,030

ridiculous forms of alternative medicine

30

00:01:45,950 --> 00:01:43,830

you have ever seen and this report is an

31

00:01:48,260 --> 00:01:45,960

overview written by Ken Harvey about his

32

00:01:52,429 --> 00:01:48,270

complaint to the TGA the Therapeutic

33

00:01:55,429 --> 00:01:52,439

Goods Administration about this absurd

34

00:01:58,270 --> 00:01:55,439

form of quackery after that a follow-up

35

00:02:00,980 --> 00:01:58,280

report from Michelle Franklin our

36

00:02:02,330 --> 00:02:00,990

reporter in the Northern Territory now

37

00:02:05,330 --> 00:02:02,340

last week you would have heard her

38

00:02:08,530 --> 00:02:05,340

report about emus this week she follows

39

00:02:11,120 --> 00:02:08,540

that up with a report about cane toads

40

00:02:12,890 --> 00:02:11,130

cane toads are a huge problem in

41

00:02:16,850 --> 00:02:12,900

Australia in the northern part of

42

00:02:19,970 --> 00:02:16,860

Australia and there are calls for the

43

00:02:24,530 --> 00:02:19,980

cane toads to be to be controlled with a

44

00:02:26,660 --> 00:02:24,540

bounty situation or a bounty solution

45

00:02:29,180 --> 00:02:26,670

what does Michelle Franklin think about

46

00:02:31,909 --> 00:02:29,190

this find out later on following that

47

00:02:32,930 --> 00:02:31,919

and I'm delighted to say following that

48

00:02:35,900 --> 00:02:32,940

it's our new

49

00:02:38,780 --> 00:02:35,910

porta Trish Han I've known Trish for

50

00:02:42,110 --> 00:02:38,790

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

51
00:02:44,650 --> 00:02:42,120
just a wondrous person she's

52
00:02:46,250 --> 00:02:44,660
professional she has great knowledge

53
00:02:50,510 --> 00:02:46,260
medical knowledge

54
00:02:55,360 --> 00:02:50,520
I could wax lyrical about Trish and her

55
00:02:58,430 --> 00:02:55,370
new segment is called Trish and chips oh

56
00:03:01,250 --> 00:02:58,440
boy yes let's have some attrition chips

57
00:03:02,630 --> 00:03:01,260
and well Trish has been a reporter on

58
00:03:05,480 --> 00:03:02,640
the skeptic zone before but now it's

59
00:03:08,260 --> 00:03:05,490
official folks he's our new reporter I'm

60
00:03:11,780 --> 00:03:08,270
gonna update the website soon and she

61
00:03:13,610 --> 00:03:11,790
jumps in takes over fills in for Maynard

62
00:03:16,220 --> 00:03:13,620
and I because we both couldn't make

63
00:03:18,920 --> 00:03:16,230

skeptics in the pub in Sydney and she

64

00:03:21,380 --> 00:03:18,930

asks the big question this week why are

65

00:03:25,490 --> 00:03:21,390

the public so cynical about climate

66

00:03:28,790 --> 00:03:25,500

change or are they find out with Trish

67

00:03:30,620 --> 00:03:28,800

Hann with Trish and chips then to round

68

00:03:33,410 --> 00:03:30,630

off the show another report from the

69

00:03:36,130 --> 00:03:33,420

archives of the skeptic magazine the

70

00:03:38,720 --> 00:03:36,140

journal from the slain skeptics where we

71

00:03:41,180 --> 00:03:38,730

look at an article written by doctor

72

00:03:44,540 --> 00:03:41,190

Richard Gordon many years ago about

73

00:03:47,449 --> 00:03:44,550

quackery so a bit of a mixed bag on this

74

00:03:49,550 --> 00:03:47,459

week's a skeptic zone but now it's time

75

00:03:52,449 --> 00:03:49,560

for me to run upstairs and have

76

00:03:55,280 --> 00:03:52,459

something I had today for the first time

77

00:03:59,480 --> 00:03:55,290

some people wouldn't believe it I had a

78

00:04:01,010 --> 00:03:59,490

peanut butter and jelly sandwich hmm and

79

00:04:03,560 --> 00:04:01,020

it was pretty good so I might have

80

00:04:06,530 --> 00:04:03,570

another one of those well I enjoy that I

81

00:04:13,910 --> 00:04:06,540

hope you enjoy this skeptic zone

82

00:04:33,330 --> 00:04:13,920

[Music]

83

00:04:39,360 --> 00:04:35,950

it's a pleasant afternoon here in

84

00:04:43,890 --> 00:04:39,370

Northern California near San Francisco

85

00:04:48,070 --> 00:04:43,900

I'm sitting outside to read you a report

86

00:04:51,250 --> 00:04:48,080

from dr. Ken Harvey now dr. Ken Harvey

87

00:04:52,990 --> 00:04:51,260

you will remember he's a whale he's

88

00:04:55,680 --> 00:04:53,000

somewhat of a legend in skeptical

89

00:04:58,120 --> 00:04:55,690

circles of course for his serial

90

00:05:01,210 --> 00:04:58,130

complaining now this is a man who puts

91

00:05:03,310 --> 00:05:01,220

together well-thought-out logical

92

00:05:05,050 --> 00:05:03,320

methodical complaints about quack

93

00:05:09,520 --> 00:05:05,060

products sends them to the government

94

00:05:12,460 --> 00:05:09,530

and it's an invaluable tool that

95

00:05:15,750 --> 00:05:12,470

skeptics have this complaining you know

96

00:05:19,300 --> 00:05:15,760

approaching the correct authorities and

97

00:05:22,180 --> 00:05:19,310

this report comes to us from mid reach

98

00:05:23,680 --> 00:05:22,190

proprietary limited men reach calm today

99

00:05:26,160 --> 00:05:23,690

you of course there'll be a link in the

100

00:05:29,830 --> 00:05:26,170

show notes it's by dr. Ken Harvey and

101
00:05:32,590 --> 00:05:29,840
it's the old favorite one of the most

102
00:05:36,160 --> 00:05:32,600
bizarre and outrageous and obvious

103
00:05:37,900 --> 00:05:36,170
quackery devices modalities I've ever

104
00:05:40,420 --> 00:05:37,910
come across and that's ear candles here

105
00:05:43,990 --> 00:05:40,430
candling and the first time I saw that

106
00:05:46,900 --> 00:05:44,000
this had a mind-body wallet festival in

107
00:05:49,330 --> 00:05:46,910
Sydney I had to look twice I simply

108
00:05:52,570 --> 00:05:49,340
could not believe what I was seeing the

109
00:05:54,250 --> 00:05:52,580
stupidity of it although I mean I do

110
00:05:57,010 --> 00:05:54,260
realize it's the wrong way to approach

111
00:05:58,900 --> 00:05:57,020
it because if you call it stupid people

112
00:06:00,310 --> 00:05:58,910
get instantly offended and they get

113
00:06:03,610 --> 00:06:00,320

their hackles up and they dig the heels

114

00:06:06,640 --> 00:06:03,620

in and all those have a great they've

115

00:06:09,610 --> 00:06:06,650

made imagery anyway it's plainly

116

00:06:11,620 --> 00:06:09,620

ridiculous I will say and this report

117

00:06:13,110 --> 00:06:11,630

says ear candles the outcome of the

118

00:06:16,000 --> 00:06:13,120

Therapeutic Goods Administration

119

00:06:20,360 --> 00:06:16,010

complaint and for those who want to know

120

00:06:26,060 --> 00:06:20,370

complaint is the number is AC v TM

121

00:06:29,659 --> 00:06:26,070

you I why HC / 2018 and this is posted

122

00:06:31,480 --> 00:06:29,669

on the 6th of January by Ken Harvey ear

123

00:06:34,370 --> 00:06:31,490

candling is a widely promoted

124

00:06:37,340 --> 00:06:34,380

alternative medical practice that

125

00:06:41,960 --> 00:06:37,350

involves inserting and lighting a hollow

126

00:06:42,800 --> 00:06:41,970

candle in the ear canal and it sounds

127

00:06:46,340 --> 00:06:42,810

ridiculous

128

00:06:48,740 --> 00:06:46,350

I'm already wearied on it is claimed

129

00:06:52,460 --> 00:06:48,750

that ear candling creates a vacuum that

130

00:06:56,600 --> 00:06:52,470

removes wax and that it can also relieve

131

00:06:59,360 --> 00:06:56,610

earache glue ear kinases sinus problems

132

00:07:02,060 --> 00:06:59,370

chronic headache migraine sore throat

133

00:07:04,570 --> 00:07:02,070

allergies and many more conditions in

134

00:07:08,570 --> 00:07:04,580

fact ear candles and candling are

135

00:07:11,210 --> 00:07:08,580

ineffective and dangerous they do not

136

00:07:14,450 --> 00:07:11,220

remove wax from the ear and they have no

137

00:07:17,029 --> 00:07:14,460

effect apart from acting as a placebo on

138

00:07:20,680 --> 00:07:17,039

the numerous conditions they claim the

139

00:07:23,719 --> 00:07:20,690

treat may have caused injury from burns

140

00:07:26,240 --> 00:07:23,729

eardrum perforations and secondary ear

141

00:07:30,980 --> 00:07:26,250

canal infections with temporary hearing

142

00:07:34,490 --> 00:07:30,990

loss the complaints resolution panel CRP

143

00:07:37,100 --> 00:07:34,500

upheld 20 complaints about misleading

144

00:07:38,330 --> 00:07:37,110

claims made for ear candles and referred

145

00:07:41,690 --> 00:07:38,340

more to the Therapeutic Goods

146

00:07:44,200 --> 00:07:41,700

Administration or TGA on the grounds

147

00:07:47,629 --> 00:07:44,210

that regulatory action was required

148

00:07:49,700 --> 00:07:47,639

Friends of signs in medicine now that's

149

00:07:51,830 --> 00:07:49,710

another fine outfit of course that we'd

150

00:07:53,779 --> 00:07:51,840

like to promote Friends of science in

151

00:07:56,469 --> 00:07:53,789

medicine also raised this matter with

152

00:08:00,200 --> 00:07:56,479

the TGA may have pointed out that other

153

00:08:03,490 --> 00:08:00,210

regulators such as the US FDA and Health

154

00:08:06,680 --> 00:08:03,500

Canada have provided public warnings

155

00:08:09,010 --> 00:08:06,690

important alerts seizures injunctions

156

00:08:14,240 --> 00:08:09,020

and warning letters about these matters

157

00:08:16,460 --> 00:08:14,250

however the TGA refused to act instead

158

00:08:18,740 --> 00:08:16,470

the TGA advised the government to

159

00:08:20,029 --> 00:08:18,750

exclude air candles from the therapeutic

160

00:08:22,400 --> 00:08:20,039

goods framework

161

00:08:24,650 --> 00:08:22,410

thus abdicating their responsibilities

162

00:08:26,629 --> 00:08:24,660

in this regard and transferring the

163

00:08:30,230 --> 00:08:26,639

regulatory responsibilities to the a

164

00:08:32,300 --> 00:08:30,240

triple see this disregarded the majority

165

00:08:35,360 --> 00:08:32,310

of public submissions about

166

00:08:38,540 --> 00:08:35,370

proposal including one from the a Triple

167

00:08:43,219 --> 00:08:38,550

C that opposed this change from 1 July

168

00:08:45,680 --> 00:08:43,229

2018 the CRP was abolished and the TGA

169

00:08:47,570 --> 00:08:45,690

became responsible for all complaints

170

00:08:50,900 --> 00:08:47,580

about the advertising of therapeutic

171

00:08:53,530 --> 00:08:50,910

goods at this time ear candles had not

172

00:08:56,960 --> 00:08:53,540

yet been added to the therapeutics goods

173

00:09:04,520 --> 00:08:56,970

excluded goods order number one from

174

00:09:06,290 --> 00:09:04,530

2011 on 24 July 2018 a portfolio of 104

175

00:09:09,740 --> 00:09:06,300

complaints about the promotion of ear

176
00:09:12,830 --> 00:09:09,750
candles was submitted to the TGA on 21

177
00:09:16,070 --> 00:09:12,840
September 2018 the TGA finalized this

178
00:09:18,770 --> 00:09:16,080
complaint by stating that they had sent

179
00:09:21,980 --> 00:09:18,780
an educational letter to all the

180
00:09:23,900 --> 00:09:21,990
identified advertisers hmm this also

181
00:09:25,610 --> 00:09:23,910
said that the outcome of this complaint

182
00:09:28,160 --> 00:09:25,620
would not be published on the

183
00:09:30,710 --> 00:09:28,170
advertising complaints outcomes the

184
00:09:32,750 --> 00:09:30,720
reason given was that ear candles were

185
00:09:35,150 --> 00:09:32,760
expected to be excluded from the

186
00:09:37,370 --> 00:09:35,160
therapeutic goods regulatory framework

187
00:09:41,120 --> 00:09:37,380
before the end of 2018

188
00:09:44,570 --> 00:09:41,130

on 1 October 2018 the TGA made a new

189

00:09:48,590 --> 00:09:44,580

determination under Section 7 a a of the

190

00:09:51,050 --> 00:09:48,600

therapeutics Goods Act in 1989 excluding

191

00:09:53,300 --> 00:09:51,060

ear candles from the TGA x' jurisdiction

192

00:09:57,380 --> 00:09:53,310

these products and now the

193

00:10:01,190 --> 00:09:57,390

responsibility of the a triple C this is

194

00:10:03,680 --> 00:10:01,200

quite a long and convoluted story we

195

00:10:06,800 --> 00:10:03,690

read on I have now assessed the impact

196

00:10:09,680 --> 00:10:06,810

of the TGA x' quote educational letter

197

00:10:14,840 --> 00:10:09,690

and quote almost six months after making

198

00:10:19,220 --> 00:10:14,850

my complaint 51 or 49 percent of the 104

199

00:10:22,160 --> 00:10:19,230

advertiser web sites were unchanged 12

200

00:10:25,520 --> 00:10:22,170

or 12 percent have removed some claims

201
00:10:28,370 --> 00:10:25,530
and 41 39 percent have removed all the

202
00:10:31,480 --> 00:10:28,380
claims i alleged breach the therapeutics

203
00:10:33,770 --> 00:10:31,490
goods advertising code

204
00:10:42,400 --> 00:10:33,780
maybe that's Ken Harvey now in that

205
00:10:45,820 --> 00:10:42,410
airplane flying above me we read on thus

206
00:10:48,440 --> 00:10:45,830
61 of the websites complained about

207
00:10:51,380 --> 00:10:48,450
continue to make misleading and

208
00:10:53,690 --> 00:10:51,390
deceptive claims which I allege brief

209
00:10:56,810 --> 00:10:53,700
both the therapeutics goods

210
00:10:59,720 --> 00:10:56,820
advertising code and Australian Consumer

211
00:11:02,290 --> 00:10:59,730
Law the critique by Commissioner Haynes

212
00:11:05,510 --> 00:11:02,300
on the regulator's of the financial

213
00:11:08,810 --> 00:11:05,520

services industry is equally applicable

214

00:11:10,970 --> 00:11:08,820

to the TGA and the a triple C a failure

215

00:11:13,190 --> 00:11:10,980

to enforce the law undermines the

216

00:11:15,710 --> 00:11:13,200

authority of the regulator whose

217

00:11:18,170 --> 00:11:15,720

fundamental responsibility is to do just

218

00:11:21,820 --> 00:11:18,180

that it also encourages others to break

219

00:11:24,740 --> 00:11:21,830

the law leading to a race to the bottom

220

00:11:27,440 --> 00:11:24,750

further action is required

221

00:11:29,630 --> 00:11:27,450

given the TJ's abdication of their

222

00:11:32,030 --> 00:11:29,640

responsibilities I have now written to

223

00:11:33,980 --> 00:11:32,040

the a Triple C requesting that they

224

00:11:36,740 --> 00:11:33,990

publish a warning to consumers about

225

00:11:40,070 --> 00:11:36,750

misleading and deceptive therapeutics

226

00:11:43,550 --> 00:11:40,080

claims made about ear candles on their

227

00:11:45,320 --> 00:11:43,560

scam watch website and as an aside

228

00:11:48,410 --> 00:11:45,330

that's a good site to check out folks

229

00:11:50,780 --> 00:11:48,420

scam watch and there is a link on this

230

00:11:53,540 --> 00:11:50,790

page to scam watch when you read on I

231

00:11:55,820 --> 00:11:53,550

have also suggested they send this

232

00:11:58,160 --> 00:11:55,830

information to those organizations whose

233

00:12:00,620 --> 00:11:58,170

members are mainly responsible for these

234

00:12:02,690 --> 00:12:00,630

advertisements in addition the a triple

235

00:12:05,480 --> 00:12:02,700

C should consider pursuing an

236

00:12:08,960 --> 00:12:05,490

illustrative court case against a large

237

00:12:11,810 --> 00:12:08,970

company such as chemists warehouse who

238

00:12:14,060 --> 00:12:11,820

continue to make misleading claims about

239

00:12:18,080 --> 00:12:14,070

ear candles despite having received the

240

00:12:20,790 --> 00:12:18,090

TG A's quote educational letter main

241

00:12:26,420 --> 00:12:23,790

and I note that there's a comment on

242

00:12:29,430 --> 00:12:26,430

this page from mal Vickers a well-known

243

00:12:33,300 --> 00:12:29,440

Victorian skeptic and Mao says Us

244

00:12:35,970 --> 00:12:33,310

website has some excellent information

245

00:12:38,400 --> 00:12:35,980

on ear candling they state there are no

246

00:12:41,660 --> 00:12:38,410

known therapeutic benefits for any

247

00:12:44,670 --> 00:12:41,670

candles and there are risks to consider

248

00:12:47,639 --> 00:12:44,680

part of dripping wax is an obvious burn

249

00:12:51,720 --> 00:12:47,649

risk however quack watch also mentions

250

00:12:54,930 --> 00:12:51,730

two instances of house fires linked to

251

00:12:58,500 --> 00:12:54,940

ear candles one of which resulted in

252

00:13:00,930 --> 00:12:58,510

death and you can read that for yourself

253

00:13:03,300 --> 00:13:00,940

pal and linked in this week's of show

254

00:13:14,040 --> 00:13:03,310

notes and while you're there you can

255

00:13:25,980 --> 00:13:22,519

[Music]

256

00:13:28,380 --> 00:13:25,990

calling all skeptics or listeners do you

257

00:13:30,780 --> 00:13:28,390

live end or near high school are you

258

00:13:33,060 --> 00:13:30,790

planning to visit sometime then you're

259

00:13:36,540 --> 00:13:33,070

in luck because the Glasgow skeptics

260

00:13:37,800 --> 00:13:36,550

have got your Monday nights sorted we

261

00:13:40,530 --> 00:13:37,810

are committed to filling up every

262

00:13:43,230 --> 00:13:40,540

available Monday night talks on science

263

00:13:45,360 --> 00:13:43,240

and skepticism past speakers include

264

00:13:47,819 --> 00:13:45,370

Eugenie Scott Jerry Coyne make up

265

00:13:50,280 --> 00:13:47,829

Marshall Nate Phelps Tom and Cecil from

266

00:13:53,370 --> 00:13:50,290

cognitive dissonance PZ Myers Richard

267

00:13:55,650 --> 00:13:53,380

Wiseman EC grilling noir Heath and Eli

268

00:13:58,650 --> 00:13:55,660

from the scathing atheist Simon Singh

269

00:14:01,560 --> 00:13:58,660

Rebecca Watson and a multitude of local

270

00:14:03,900 --> 00:14:01,570

academics and skeptics there's literally

271

00:14:04,620 --> 00:14:03,910

nothing better you can do on a Monday in

272

00:14:06,449 --> 00:14:04,630

Glasgow

273

00:14:09,389 --> 00:14:06,459

it doesn't involve taking your clothes

274

00:14:11,639 --> 00:14:09,399

off so come join us we've also got a

275

00:14:13,740 --> 00:14:11,649

vibrant online community you can find us

276
00:14:16,230 --> 00:14:13,750
on Facebook Twitter and get involved

277
00:14:21,700 --> 00:14:16,240
with the discussion glasgow skeptics

278
00:14:21,710 --> 00:14:31,860
[Music]

279
00:14:49,350 --> 00:14:42,970
life is wild with Michelle Franklin

280
00:14:52,090 --> 00:14:49,360
[Music]

281
00:14:53,890 --> 00:14:52,100
hi guys I just wanted to do a quick

282
00:14:56,290 --> 00:14:53,900
follow-up from my last report about the

283
00:14:58,300 --> 00:14:56,300
EMU war and all the bad decisions that

284
00:15:01,120 --> 00:14:58,310
happen when non ecologist try to do

285
00:15:03,520 --> 00:15:01,130
ecology same thing goes for politicians

286
00:15:05,200 --> 00:15:03,530
and recently people following the news

287
00:15:07,630 --> 00:15:05,210
in Australia may have noticed a certain

288
00:15:09,370 --> 00:15:07,640

politician who has a history of speaking

289

00:15:12,160 --> 00:15:09,380

out against people who aren't from here

290

00:15:14,140 --> 00:15:12,170

and now she's getting rather excited

291

00:15:17,320 --> 00:15:14,150

about her new plan to defend the country

292

00:15:18,880 --> 00:15:17,330

from animals that aren't from here but

293

00:15:21,670 --> 00:15:18,890

she's not talking about funding research

294

00:15:23,890 --> 00:15:21,680

or introducing better management policy

295

00:15:26,200 --> 00:15:23,900

it's much more fun than that she wants

296

00:15:29,050 --> 00:15:26,210

to have a cane toad muster and put a

297

00:15:30,730 --> 00:15:29,060

10-cent bounty on their heads for those

298

00:15:33,550 --> 00:15:30,740

who aren't familiar cane toads are a

299

00:15:37,240 --> 00:15:33,560

highly visible fast breeding invasive

300

00:15:40,690 --> 00:15:37,250

amphibian and they're not considered to

301

00:15:43,000 --> 00:15:40,700

be attractive by most people they're

302

00:15:45,760 --> 00:15:43,010

poisonous and they eat a lot and they're

303

00:15:47,590 --> 00:15:45,770

generally not good to have around they

304

00:15:49,090 --> 00:15:47,600

were introduced deliberately about 80

305

00:15:51,250 --> 00:15:49,100

years ago and they're spreading across

306

00:15:53,560 --> 00:15:51,260

the country and nothing so far seems to

307

00:15:55,000 --> 00:15:53,570

be able to stop them but the reason I

308

00:15:57,220 --> 00:15:55,010

bring them up today is because this

309

00:15:58,150 --> 00:15:57,230

politician has announced that she wants

310

00:16:00,130 --> 00:15:58,160

to get rid of them

311

00:16:02,470 --> 00:16:00,140

which is great but instead of focusing

312

00:16:04,780 --> 00:16:02,480

on the real research and progress that's

313

00:16:07,720 --> 00:16:04,790

happening in this area she just wants to

314

00:16:10,750 --> 00:16:07,730

go for the quick fix and pay people to

315

00:16:12,460 --> 00:16:10,760

go out there and get them it's great

316

00:16:14,770 --> 00:16:12,470

that she's enthusiastic about helping

317

00:16:16,990 --> 00:16:14,780

the situation but when people try to

318

00:16:18,490 --> 00:16:17,000

make changes to an animal population

319

00:16:20,920 --> 00:16:18,500

based on their complete lack of

320

00:16:25,270 --> 00:16:20,930

understanding it's not only wrong it's

321

00:16:27,160 --> 00:16:25,280

insulting for time immemorial scientists

322

00:16:29,560 --> 00:16:27,170

have been asking for funding to study

323

00:16:31,450 --> 00:16:29,570

various problems but instead of

324

00:16:33,490 --> 00:16:31,460

contributing to the actual useful

325

00:16:35,260 --> 00:16:33,500

knowledge and advancements some people

326

00:16:37,840 --> 00:16:35,270

think that they'll just bypass that

327

00:16:40,600 --> 00:16:37,850

process and just act on their own and

328

00:16:43,450 --> 00:16:40,610

use their own ideas instead it's the

329

00:16:45,670 --> 00:16:43,460

dunning-kruger effect where people watch

330

00:16:47,440 --> 00:16:45,680

one documentary or read one story about

331

00:16:49,000 --> 00:16:47,450

a problem and they feel like they're an

332

00:16:51,060 --> 00:16:49,010

expert and that they can solve the

333

00:16:54,160 --> 00:16:51,070

problem with their own ingenious ideas

334

00:16:56,350 --> 00:16:54,170

first of all no you won't second of all

335

00:16:58,650 --> 00:16:56,360

did you even google it before speaking

336

00:17:01,210 --> 00:16:58,660

cane toad musters have been done before

337

00:17:04,000 --> 00:17:01,220

repeatedly on a very large scale

338

00:17:06,100 --> 00:17:04,010

and we didn't have to pay people to do

339

00:17:08,559 --> 00:17:06,110

it they do it voluntarily all the time I

340

00:17:10,449 --> 00:17:08,569

remember doing it as a kid and so does

341

00:17:12,790 --> 00:17:10,459

Richard Saunders and I bet most

342

00:17:15,569 --> 00:17:12,800

Australians have been out there catching

343

00:17:18,730 --> 00:17:15,579

cane toads at some point in their past

344

00:17:22,689 --> 00:17:18,740

people still do it today and it doesn't

345

00:17:24,250 --> 00:17:22,699

work for years as the cane toad moved

346

00:17:26,439 --> 00:17:24,260

across the north of Australia we had

347

00:17:29,080 --> 00:17:26,449

extremely well-funded community groups

348

00:17:30,790 --> 00:17:29,090

that had all the equipment and resources

349

00:17:33,400 --> 00:17:30,800

necessary and they were going out in

350

00:17:34,930 --> 00:17:33,410

force to collect toads and they weren't

351
00:17:36,880 --> 00:17:34,940
just picking them up from around their

352
00:17:38,650 --> 00:17:36,890
houses or at the front of the pub and

353
00:17:40,210 --> 00:17:38,660
dropping them into the council which is

354
00:17:42,760 --> 00:17:40,220
what's been suggested in the media of

355
00:17:44,590 --> 00:17:42,770
late they were taking four-wheel drives

356
00:17:46,270 --> 00:17:44,600
and ATVs and heading out into remote

357
00:17:48,460 --> 00:17:46,280
areas and targeting large-scale

358
00:17:51,610 --> 00:17:48,470
collection efforts on specific targets

359
00:17:54,720 --> 00:17:51,620
and they collected a lot of toads and

360
00:17:57,280 --> 00:17:54,730
guess what they didn't catch them all

361
00:17:59,380 --> 00:17:57,290
they didn't reduce the population by any

362
00:18:02,200 --> 00:17:59,390
significant amount they didn't even slow

363
00:18:04,510 --> 00:18:02,210

down the invasion front this has been

364

00:18:06,100 --> 00:18:04,520

studied extensively and we have the

365

00:18:09,250 --> 00:18:06,110

evidence that shows that it just doesn't

366

00:18:11,530 --> 00:18:09,260

work at best these cane toad musters

367

00:18:14,500 --> 00:18:11,540

temporarily reduced the populations in

368

00:18:16,390 --> 00:18:14,510

small targeted areas and they drum up a

369

00:18:17,880 --> 00:18:16,400

bit of enthusiasm in the community for

370

00:18:20,200 --> 00:18:17,890

volunteering and helping the environment

371

00:18:22,390 --> 00:18:20,210

but it's an extremely high labor

372

00:18:26,110 --> 00:18:22,400

intensive activity with minimal payoff

373

00:18:27,940 --> 00:18:26,120

and the reason for these program fails

374

00:18:29,920 --> 00:18:27,950

and the reason that nobody bothers to

375

00:18:32,290 --> 00:18:29,930

suggest cane toad bounties anymore is

376

00:18:35,410 --> 00:18:32,300

because that's not how cane toad biology

377

00:18:37,930 --> 00:18:35,420

works placing bounties on some animals

378

00:18:40,330 --> 00:18:37,940

has succeeded in the past and with other

379

00:18:41,950 --> 00:18:40,340

animals it's failed it's really not as

380

00:18:44,080 --> 00:18:41,960

simple as just paying people to catch

381

00:18:45,880 --> 00:18:44,090

the animals that you don't want there's

382

00:18:48,070 --> 00:18:45,890

a very fine line between a culling

383

00:18:49,840 --> 00:18:48,080

program and a conservation program and

384

00:18:53,230 --> 00:18:49,850

paying people to collect and kill

385

00:18:54,820 --> 00:18:53,240

animals is also a well-known and well

386

00:18:57,850 --> 00:18:54,830

used principle in conservation

387

00:18:59,800 --> 00:18:57,860

it's called sustainable use you make an

388

00:19:01,930 --> 00:18:59,810

animal financially valuable to the

389

00:19:03,670 --> 00:19:01,940

people who control its habitat and those

390

00:19:06,070 --> 00:19:03,680

people will in turn to conserve it

391

00:19:08,290 --> 00:19:06,080

because it's valuable crocodiles are the

392

00:19:10,270 --> 00:19:08,300

perfect example of this their eggs are

393

00:19:12,340 --> 00:19:10,280

valuable because farms buy them to make

394

00:19:14,100 --> 00:19:12,350

leather they're for people who are in a

395

00:19:16,410 --> 00:19:14,110

land that's covered in crocodiles now

396

00:19:18,090 --> 00:19:16,420

value them and protect them rather than

397

00:19:21,330 --> 00:19:18,100

shooting them out and running cattle on

398

00:19:24,150 --> 00:19:21,340

their land instead for other animals

399

00:19:26,700 --> 00:19:24,160

bounties can be very successful take the

400

00:19:29,039 --> 00:19:26,710

thylacine for example sometimes called

401
00:19:32,570 --> 00:19:29,049
the tasmanian tiger although it's not a

402
00:19:35,669 --> 00:19:32,580
tiger and it's not only from tasmania

403
00:19:38,700 --> 00:19:35,679
thylacine x' breed slowly they invest a

404
00:19:40,470 --> 00:19:38,710
lot of energy in each baby and when you

405
00:19:42,539 --> 00:19:40,480
put a bounty on their heads they got

406
00:19:45,810 --> 00:19:42,549
wiped out that's not what's going to

407
00:19:47,760 --> 00:19:45,820
happen with toads when you walk around

408
00:19:50,400 --> 00:19:47,770
looking for toads to pick up you pretty

409
00:19:52,710 --> 00:19:50,410
much find all males they're brightly

410
00:19:53,510 --> 00:19:52,720
colored loud and they hop around out in

411
00:19:55,710 --> 00:19:53,520
the open

412
00:19:57,720 --> 00:19:55,720
females on the other hand are more

413
00:19:59,970 --> 00:19:57,730

reclusive they mostly sit in the water

414

00:20:01,130 --> 00:19:59,980

where people don't tend to go and they

415

00:20:03,360 --> 00:20:01,140

don't make a sound

416

00:20:06,480 --> 00:20:03,370

now the females are the ones that lay

417

00:20:09,120 --> 00:20:06,490

the eggs and it only takes one now to

418

00:20:12,870 --> 00:20:09,130

fertilize them all but even if you could

419

00:20:14,880 --> 00:20:12,880

catch 95% of them it wouldn't help cane

420

00:20:17,310 --> 00:20:14,890

toads are cannibals and they're also

421

00:20:20,070 --> 00:20:17,320

prolific breeders which means that the

422

00:20:23,450 --> 00:20:20,080

population is self-limiting each female

423

00:20:25,110 --> 00:20:23,460

lays up to 30,000 eggs and those eggs

424

00:20:28,049 --> 00:20:25,120

compete with each other

425

00:20:30,150 --> 00:20:28,059

toad tadpoles will eat toad eggs and

426
00:20:33,060 --> 00:20:30,160
young adult toads will eat baby toads

427
00:20:35,669 --> 00:20:33,070
and each piece of habitat has a set

428
00:20:38,190 --> 00:20:35,679
carrying capacity for toads and their

429
00:20:40,430 --> 00:20:38,200
ability to breed is significantly higher

430
00:20:43,169 --> 00:20:40,440
than the carrying capacity for that

431
00:20:45,240 --> 00:20:43,179
habitat so it doesn't matter if there

432
00:20:47,940 --> 00:20:45,250
are 50 females in the area or if there

433
00:20:50,060 --> 00:20:47,950
are two the same number of babies will

434
00:20:52,380 --> 00:20:50,070
be recruited into the next generation

435
00:20:54,270 --> 00:20:52,390
yes there are some situations where

436
00:20:56,700 --> 00:20:54,280
mounties work amuse and thylacines are

437
00:20:59,520 --> 00:20:56,710
the good example of that but the method

438
00:21:02,070 --> 00:20:59,530

of control for an animal depends so much

439

00:21:04,680 --> 00:21:02,080

on the biology of that animal and the

440

00:21:06,840 --> 00:21:04,690

ecology of the whole system we have

441

00:21:09,060 --> 00:21:06,850

experts who are all too willing to help

442

00:21:11,100 --> 00:21:09,070

and this is the thing that grates me the

443

00:21:13,350 --> 00:21:11,110

most about this situation it's not

444

00:21:15,510 --> 00:21:13,360

difficult to find out to know the

445

00:21:17,820 --> 00:21:15,520

in-depth biology of the cane toad versus

446

00:21:20,220 --> 00:21:17,830

the EMU verse at the crocodile vs isla

447

00:21:23,070 --> 00:21:20,230

scene and to know when a bounty would

448

00:21:24,390 --> 00:21:23,080

help the situation and when putting a

449

00:21:27,520 --> 00:21:24,400

value on them would actually increase

450

00:21:29,140 --> 00:21:27,530

the population but I would expect

451
00:21:31,270 --> 00:21:29,150
that a person who claims to have the

452
00:21:33,640 --> 00:21:31,280
answer would at least look into it and

453
00:21:35,410 --> 00:21:33,650
find out what's been tried and asked if

454
00:21:37,600 --> 00:21:35,420
you experts what they think before

455
00:21:41,230 --> 00:21:37,610
making a dumbass suggestion that's never

456
00:21:43,420 --> 00:21:41,240
going to work oh and also if this

457
00:21:45,010 --> 00:21:43,430
particular politician is gonna try to be

458
00:21:47,440 --> 00:21:45,020
an environmentalist all of a sudden

459
00:21:49,510 --> 00:21:47,450
she'd go a long way to just accept that

460
00:21:51,070 --> 00:21:49,520
climate change is real and stop getting

461
00:21:53,240 --> 00:21:51,080
in the way of the people who are trying

462
00:21:59,280 --> 00:21:53,250
to do something about it

463
00:22:04,810 --> 00:22:02,470

greetings listeners it's me Captain

464

00:22:07,450 --> 00:22:04,820

disillusion on my youtube channel called

465

00:22:09,700 --> 00:22:07,460

captain of dissolution aye captain

466

00:22:11,740 --> 00:22:09,710

disillusion analyzed viral videos of the

467

00:22:14,230 --> 00:22:11,750

strange and unbelievable I explained how

468

00:22:16,210 --> 00:22:14,240

interframe video compression 3d motion

469

00:22:18,280 --> 00:22:16,220

tracking and stock the effects elements

470

00:22:20,830 --> 00:22:18,290

proved that Justin Bieber is not a

471

00:22:22,840 --> 00:22:20,840

secret reptilian alien that those videos

472

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

of ghost cars are just unintentional

473

00:22:26,590 --> 00:22:24,860

optical illusions and that lightning did

474

00:22:28,420 --> 00:22:26,600

not strike a few feet away from a girl

475

00:22:31,120 --> 00:22:28,430

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

476

00:22:34,960 --> 00:22:31,130

real fun at parties my best friend is a

477

00:22:36,910 --> 00:22:34,970

lens flare disillusion I dunno other

478

00:22:39,520 --> 00:22:36,920

people sometimes they even show up in my

479

00:22:41,500 --> 00:22:39,530

videos people like skepticisms grandpa

480

00:22:44,380 --> 00:22:41,510

James Randi serve de Soleil Acrobat

481

00:22:46,540 --> 00:22:44,390

Erica Lin's weight loss enthusiast Penn

482

00:22:48,640 --> 00:22:46,550

Jillette and the actual Beekman from

483

00:22:50,680 --> 00:22:48,650

Beakman's world I hope you'll check out

484

00:22:52,840 --> 00:22:50,690

my adventures interact with me in a

485

00:22:55,660 --> 00:22:52,850

platonic way and even consider becoming

486

00:22:58,240 --> 00:22:55,670

a patron of my work you can do all that

487

00:23:06,560 --> 00:22:58,250

and more on YouTube or at Captain

488

00:23:24,570 --> 00:23:15,960

hmm let's have some Trish and chips is

489

00:23:26,490 --> 00:23:24,580

Trish Han so I'm here at Sydney's

490

00:23:29,580 --> 00:23:26,500

skeptics in the pub standing in for

491

00:23:31,110 --> 00:23:29,590

Richard and or may not and I'm gonna be

492

00:23:33,890 --> 00:23:31,120

asking the question tonight and that

493

00:23:36,300 --> 00:23:33,900

question is why is there such cynicism

494

00:23:38,970 --> 00:23:36,310

towards climate change amongst the

495

00:23:40,770 --> 00:23:38,980

general public let's see how things go

496

00:23:43,110 --> 00:23:40,780

with me taking over temporarily for

497

00:23:44,820 --> 00:23:43,120

tonight so I'm here with the legendary

498

00:23:49,230 --> 00:23:44,830

Tim Mendham I exist

499

00:23:52,890 --> 00:23:49,240

I know so Tim what do you think of the

500

00:23:55,080 --> 00:23:52,900

question why are people so hesitant or

501
00:23:57,450 --> 00:23:55,090
cynical about climate change amongst the

502
00:23:59,370 --> 00:23:57,460
general public well I think it's a

503
00:24:00,840 --> 00:23:59,380
mistaken question actually I think most

504
00:24:02,700 --> 00:24:00,850
people are actually not cynical either

505
00:24:04,580 --> 00:24:02,710
from what I understand from the polls

506
00:24:07,020 --> 00:24:04,590
etc and certainly from talking to people

507
00:24:08,970 --> 00:24:07,030
let's go beyond skeptical circles but in

508
00:24:11,190 --> 00:24:08,980
general public I think most people agree

509
00:24:14,600 --> 00:24:11,200
that there is an issue with climate

510
00:24:17,100 --> 00:24:14,610
change with anthropogenic global warming

511
00:24:19,320 --> 00:24:17,110
etc right that people do accept that

512
00:24:21,590 --> 00:24:19,330
it's happening and they want something

513
00:24:23,850 --> 00:24:21,600

to be done right I mean the fact that

514

00:24:25,620 --> 00:24:23,860

there's a number of politicians and

515

00:24:26,610 --> 00:24:25,630

shock jocks and people like that who are

516

00:24:29,640 --> 00:24:26,620

making a loud noise

517

00:24:31,560 --> 00:24:29,650

I think beyond their numbers basically

518

00:24:34,350 --> 00:24:31,570

so I would say while people might be

519

00:24:36,150 --> 00:24:34,360

confused and certainly you get into the

520

00:24:38,310 --> 00:24:36,160

you don't have to get very far e to the

521

00:24:40,290 --> 00:24:38,320

scientific details to get confused it's

522

00:24:41,910 --> 00:24:40,300

well beyond the the can of those people

523

00:24:43,160 --> 00:24:41,920

but the thing to ask

524

00:24:45,860 --> 00:24:43,170

as far as

525

00:24:47,870 --> 00:24:45,870

farmers all of them agree that this is

526
00:24:49,520 --> 00:24:47,880
happening and then it's an issue because

527
00:24:50,870 --> 00:24:49,530
that's being they saying and absolutely

528
00:24:53,000 --> 00:24:50,880
then they're seeing over the last twenty

529
00:24:55,340 --> 00:24:53,010
years and they're not known to be a sort

530
00:24:57,620 --> 00:24:55,350
of lefties act of has set cetera because

531
00:24:59,660 --> 00:24:57,630
I point that but I think you know that's

532
00:25:00,920 --> 00:24:59,670
what I see all the time and I've seen

533
00:25:03,020 --> 00:25:00,930
some of the evidence a lot of the

534
00:25:05,900 --> 00:25:03,030
evidence a lot of the time being on the

535
00:25:07,130 --> 00:25:05,910
front line being legendary that that are

536
00:25:08,750 --> 00:25:07,140
people who approached me all the time

537
00:25:12,200 --> 00:25:08,760
but with their theories and with their

538
00:25:14,690 --> 00:25:12,210

criticisms amongst the skeptics advanced

539

00:25:15,950 --> 00:25:14,700

majority skeptics accept that climate

540

00:25:18,280 --> 00:25:15,960

change is an issue is happening and

541

00:25:20,630 --> 00:25:18,290

something needs to be done vast majority

542

00:25:22,220 --> 00:25:20,640

but there are always a number of fairly

543

00:25:23,870 --> 00:25:22,230

loud people and people who claim

544

00:25:26,060 --> 00:25:23,880

scientific expertise and some of them

545

00:25:29,240 --> 00:25:26,070

have it right who put forward theories

546

00:25:32,270 --> 00:25:29,250

and lists and the and criticize the

547

00:25:33,740 --> 00:25:32,280

suppose at 97% of scientists or

548

00:25:35,210 --> 00:25:33,750

climatologist who accept that it's

549

00:25:36,050 --> 00:25:35,220

happening and so there are a lot of

550

00:25:38,210 --> 00:25:36,060

others who don't

551
00:25:40,160 --> 00:25:38,220
here's one in particular I got a list

552
00:25:42,110 --> 00:25:40,170
centimeters recently and it's referred

553
00:25:43,420 --> 00:25:42,120
to many many times in anti climate

554
00:25:46,760 --> 00:25:43,430
change because you have three hundred

555
00:25:48,590 --> 00:25:46,770
very well-known noted scientists who

556
00:25:51,050 --> 00:25:48,600
were saith rubbish and you go through

557
00:25:52,520 --> 00:25:51,060
the list it's not hard to do you realize

558
00:25:55,850 --> 00:25:52,530
that most of them are not climatologist

559
00:25:56,990 --> 00:25:55,860
in fact very few a climatologist and

560
00:25:59,870 --> 00:25:57,000
that a lot of them don't have any

561
00:26:02,180 --> 00:25:59,880
qualifications or any listed background

562
00:26:04,190 --> 00:26:02,190
or credentials of any sort and amongst

563
00:26:06,500 --> 00:26:04,200

thing is at least one creationist amazed

564

00:26:08,570 --> 00:26:06,510

the creationist foundation even though

565

00:26:09,770 --> 00:26:08,580

it just surprises me that this list is

566

00:26:11,120 --> 00:26:09,780

being quoted by people that have

567

00:26:13,220 --> 00:26:11,130

scientific bent or even worse or

568

00:26:14,780 --> 00:26:13,230

skeptical been now I'm sure there's a

569

00:26:17,150 --> 00:26:14,790

lot of genuine people out there who had

570

00:26:19,430 --> 00:26:17,160

concerns about the climate change theory

571

00:26:21,320 --> 00:26:19,440

who object to it and there's obviously a

572

00:26:23,270 --> 00:26:21,330

lot of political issues in there a lot

573

00:26:27,260 --> 00:26:23,280

of economic issues a lot of economic

574

00:26:28,760 --> 00:26:27,270

philosophy and frankly free market as

575

00:26:29,930 --> 00:26:28,770

opposed to interventionist sort of

576

00:26:31,990 --> 00:26:29,940

activities that sort of thing

577

00:26:34,010 --> 00:26:32,000

climate change is a very interventionist

578

00:26:35,990 --> 00:26:34,020

situation a lot of people just object to

579

00:26:38,420 --> 00:26:36,000

that on principle that's their that's

580

00:26:40,790 --> 00:26:38,430

their option of course but at the same

581

00:26:42,750 --> 00:26:40,800

time you can't the science is not open

582

00:26:46,560 --> 00:26:42,760

to a political debate

583

00:26:48,570 --> 00:26:46,570

yeah I completely agree thank you oh and

584

00:26:50,190 --> 00:26:48,580

look who's just walking in I believe

585

00:26:52,049 --> 00:26:50,200

that might be just like a singer on the

586

00:26:55,110 --> 00:26:52,059

horizon it is I yes

587

00:26:56,610 --> 00:26:55,120

so the toilets question is why do you

588

00:26:58,680 --> 00:26:56,620

think there's a hesitancy or cynicism

589

00:27:00,659 --> 00:26:58,690

around accepting the climate change

590

00:27:04,169 --> 00:27:00,669

amongst the general public well my

591

00:27:06,240 --> 00:27:04,179

counter question would be is there is

592

00:27:08,400 --> 00:27:06,250

there we're constantly being told

593

00:27:10,919 --> 00:27:08,410

there's a cynicism and nobody believes

594

00:27:15,600 --> 00:27:10,929

it but the people who are telling us

595

00:27:19,049 --> 00:27:15,610

that the revered climate change deniers

596

00:27:22,310 --> 00:27:19,059

so are they peddling their own agenda is

597

00:27:25,980 --> 00:27:22,320

it true drinking their own kool-aid yeah

598

00:27:29,580 --> 00:27:25,990

interesting okay and would you like to

599

00:27:32,850 --> 00:27:29,590

answer that question um why is there

600

00:27:36,180 --> 00:27:32,860

cynicism and what was the question again

601
00:27:39,240 --> 00:27:36,190
I think the question being you know are

602
00:27:41,580 --> 00:27:39,250
there is there a cynicism at all Soji oh

603
00:27:43,680 --> 00:27:41,590
look I certainly I certainly think some

604
00:27:50,039 --> 00:27:43,690
people denied I have a colleague at work

605
00:27:53,460 --> 00:27:50,049
who is an avid denier and I just have to

606
00:27:56,399 --> 00:27:53,470
walk away but

607
00:27:59,899 --> 00:27:56,409
most of the people I know and I don't

608
00:28:03,690 --> 00:27:59,909
think it's just my own echo-chamber

609
00:28:05,940 --> 00:28:03,700
most people I know think that yes

610
00:28:07,740 --> 00:28:05,950
and troponin and tropical i'mot change

611
00:28:11,279 --> 00:28:07,750
is happening

612
00:28:13,019 --> 00:28:11,289
I met my cousin who comes from Victoria

613
00:28:15,930 --> 00:28:13,029

and she grew up in the country for lunch

614

00:28:21,149 --> 00:28:15,940

today and she's driven up from Victoria

615

00:28:26,730 --> 00:28:21,159

to to Sydney through the bush and she

616

00:28:28,830 --> 00:28:26,740

says it's changed yeah things are

617

00:28:30,480 --> 00:28:28,840

different and yeah look at the Murray

618

00:28:31,560 --> 00:28:30,490

dirt or look look what's happening with

619

00:28:33,180 --> 00:28:31,570

the Murray Darling Basin

620

00:28:36,180 --> 00:28:33,190

look what's happening with the bushfire

621

00:28:38,730 --> 00:28:36,190

season looks look what the wine growers

622

00:28:40,860 --> 00:28:38,740

are saying about the temperature changes

623

00:28:42,869 --> 00:28:40,870

and how it's affecting their the the

624

00:28:46,700 --> 00:28:42,879

crops and the varieties that they can

625

00:28:49,590 --> 00:28:46,710

grow I mean there's all this information

626
00:28:52,259 --> 00:28:49,600
and evidence out there pointing pointing

627
00:28:59,759 --> 00:28:52,269
that way absolutely all right Jessica

628
00:29:00,379 --> 00:28:59,769
shrugs what are your thoughts on the

629
00:29:05,220 --> 00:29:00,389
subject

630
00:29:08,909 --> 00:29:05,230
well you can't trust anyone whose income

631
00:29:13,100 --> 00:29:08,919
depends on furthering a particular point

632
00:29:19,860 --> 00:29:17,160
so who are you mentioning that whose

633
00:29:24,120 --> 00:29:19,870
income I mean there's many people mainly

634
00:29:27,230 --> 00:29:24,130
people on many sides on many sides it's

635
00:29:33,840 --> 00:29:27,240
a hexagon of basically just scientists

636
00:29:43,200 --> 00:29:33,850
summoning funding from the walk of the

637
00:29:44,160 --> 00:29:43,210
earth sorry Richard I have no idea what

638
00:29:47,100 --> 00:29:44,170

that was about

639

00:29:49,290 --> 00:29:47,110

okay so I'm sitting with Gideon who is

640

00:29:52,200 --> 00:29:49,300

an epidemiologist I understand that's a

641

00:29:54,480 --> 00:29:52,210

fact yeah what are your thoughts on

642

00:29:56,670 --> 00:29:54,490

tonight's question I my thoughts are

643

00:29:59,550 --> 00:29:56,680

that most people are hesitant to accept

644

00:30:01,530 --> 00:29:59,560

climate change because it is more

645

00:30:06,450 --> 00:30:01,540

convenient to not accept climate change

646

00:30:10,140 --> 00:30:06,460

it is more expensive to go green and it

647

00:30:11,910 --> 00:30:10,150

is more difficult and we all like to

648

00:30:15,060 --> 00:30:11,920

believe things are easy even when they

649

00:30:18,110 --> 00:30:15,070

rarely are okay fair enough so kind of a

650

00:30:19,830 --> 00:30:18,120

libertarian angle sort of thing yeah

651
00:30:21,870 --> 00:30:19,840
libertarianism and just the general

652
00:30:27,030 --> 00:30:21,880
blindness we all have towards things

653
00:30:28,560 --> 00:30:27,040
that we don't want to hear so Richard

654
00:30:30,750 --> 00:30:28,570
tonight's question should actually be

655
00:30:32,880 --> 00:30:30,760
wire skeptics and the pub goes so

656
00:30:34,620 --> 00:30:32,890
hesitant to talk to me when I hold a

657
00:30:36,690 --> 00:30:34,630
picture of you in front of their face

658
00:30:39,780 --> 00:30:36,700
and thrust my phone's microphone under

659
00:30:42,540 --> 00:30:39,790
their nose Who am I talking to it's Ben

660
00:30:44,409 --> 00:30:42,550
McEvoy here and so the question is why

661
00:30:46,749 --> 00:30:44,419
is the general public so hesitant

662
00:30:49,550 --> 00:30:46,759
except climate change because I can't

663
00:30:52,910 --> 00:30:49,560

believe it's got holiday

664

00:31:09,450 --> 00:30:58,770

[Music]

665

00:31:11,390 --> 00:31:09,460

hi this is Heidi Robertson from the

666

00:31:14,270 --> 00:31:11,400

Northern Rivers vaccination supporters

667

00:31:16,890 --> 00:31:14,280

we are a group of concerned citizens

668

00:31:19,470 --> 00:31:16,900

dedicated to promoting good science and

669

00:31:22,590 --> 00:31:19,480

common sense in our region the far north

670

00:31:24,150 --> 00:31:22,600

coast of New South Wales this area are

671

00:31:27,480 --> 00:31:24,160

famous for its natural beauty and

672

00:31:30,840 --> 00:31:27,490

relaxed lifestyle also has the lowest

673

00:31:33,120 --> 00:31:30,850

rates of vaccination in Australia we are

674

00:31:35,460 --> 00:31:33,130

out to change that by challenging the

675

00:31:37,140 --> 00:31:35,470

myths and misinformation and by

676

00:31:40,470 --> 00:31:37,150

providing good evidence-based

677

00:31:42,299 --> 00:31:40,480

information to the community we'd love

678

00:31:45,930 --> 00:31:42,309

for you no matter where you are in the

679

00:31:53,760 --> 00:31:45,940

world to join our fight please visit our

680

00:31:56,789 --> 00:31:53,770

webpage at WWF info we also have a link

681

00:31:59,460 --> 00:31:56,799

there to our Facebook page tweet us at

682

00:32:02,669 --> 00:31:59,470

in our FAQs supporters

683

00:32:04,909 --> 00:32:02,679

that's vix and check us out on Wikipedia

684

00:32:10,540 --> 00:32:04,919

by searching for Northern Rivers

685

00:32:30,470 --> 00:32:27,610

[Music]

686

00:32:32,630 --> 00:32:30,480

from the pages of the skeptic magazine

687

00:32:40,720 --> 00:32:32,640

in the journal from Australian skeptics

688

00:32:44,570 --> 00:32:40,730

this is a winter 1988 or vol 8 number 2

689

00:32:48,320 --> 00:32:44,580

turning to page 27 under the title of

690

00:32:57,170 --> 00:32:48,330

alternative medicine quackery by Richard

691

00:33:01,790 --> 00:32:57,180

Gordon the first charlatan was made when

692

00:33:04,250 --> 00:33:01,800

the first knave met the first fool there

693

00:33:07,670 --> 00:33:04,260

are four interesting questions to pose

694

00:33:11,630 --> 00:33:07,680

concerning quackery one

695

00:33:15,410 --> 00:33:11,640

what is quackery - why do quack remedies

696

00:33:20,320 --> 00:33:15,420

seem to work 3 why do people go to

697

00:33:24,500 --> 00:33:20,330

quacks 4 what is the harm in quackery

698

00:33:27,530 --> 00:33:24,510

what is quackery a quack as a person who

699

00:33:30,440 --> 00:33:27,540

deliberately misrepresents himself as

700

00:33:34,610 --> 00:33:30,450

possessing medical or other healing

701
00:33:37,460 --> 00:33:34,620
skills which he lacks a quick remedy is

702
00:33:39,830 --> 00:33:37,470
one which is promised to offer a cure

703
00:33:43,310 --> 00:33:39,840
although there is no scientific evidence

704
00:33:46,960 --> 00:33:43,320
for this claim the term quack originally

705
00:33:49,970 --> 00:33:46,970
meant quote to prattle or brag unquote

706
00:33:53,330 --> 00:33:49,980
quackery thrives in alternative medicine

707
00:33:56,750 --> 00:33:53,340
and is also present in Orthodox medicine

708
00:33:59,500 --> 00:33:56,760
in Orthodox medicine the cynical use of

709
00:34:01,970 --> 00:33:59,510
placebos is an example of quackery

710
00:34:04,550 --> 00:34:01,980
vitamins are a popular vehicle for

711
00:34:08,060 --> 00:34:04,560
quackery while vitamins are necessary

712
00:34:11,630 --> 00:34:08,070
for good health and excess dose does not

713
00:34:13,910 --> 00:34:11,640

quote stimulate end quote the system to

714

00:34:16,670 --> 00:34:13,920

greater heights nor can in excess

715

00:34:19,010 --> 00:34:16,680

increase the sense of well-being the

716

00:34:21,410 --> 00:34:19,020

reasoning that says quote if a little is

717

00:34:24,680 --> 00:34:21,420

good then large amounts must be better

718

00:34:27,620 --> 00:34:24,690

in quote is clearly flawed as food and

719

00:34:30,290 --> 00:34:27,630

alcohol so easily illustrate quacks

720

00:34:33,560 --> 00:34:30,300

often mix good advice with

721

00:34:36,560 --> 00:34:33,570

totally unfounded claims chiropractic is

722

00:34:38,660 --> 00:34:36,570

a good example of this mixture on one

723

00:34:41,060 --> 00:34:38,670

hand it uses spinal manipulation to

724

00:34:42,860 --> 00:34:41,070

treat muscular disorders and on the

725

00:34:45,140 --> 00:34:42,870

other hand we do use a spinal

726

00:34:48,500 --> 00:34:45,150

manipulation to treat asthma

727

00:34:50,780 --> 00:34:48,510

why do quack remedy seem to work the

728

00:34:54,320 --> 00:34:50,790

reasons for the apparent success of

729

00:34:57,350 --> 00:34:54,330

quack remedies are a the patient's

730

00:34:59,900 --> 00:34:57,360

belief that the Cure work often coupled

731

00:35:04,550 --> 00:34:59,910

with the financial commitment and a

732

00:35:07,250 --> 00:35:04,560

desire not to feel cheated be the power

733

00:35:10,520 --> 00:35:07,260

of the quacks personality many famous

734

00:35:13,730 --> 00:35:10,530

quacks were and are outstanding showman

735

00:35:16,190 --> 00:35:13,740

many have paranoid delusional beliefs in

736

00:35:20,150 --> 00:35:16,200

their own powers a case of the psychotic

737

00:35:23,150 --> 00:35:20,160

leading the neurotic see spontaneous

738

00:35:26,690 --> 00:35:23,160

recovery which characterizes most minor

739

00:35:30,170 --> 00:35:26,700

illnesses many major illnesses and a few

740

00:35:32,840 --> 00:35:30,180

very serious illnesses such as cancer in

741

00:35:37,000 --> 00:35:32,850

the last case spontaneous remission

742

00:35:40,760 --> 00:35:37,010

occurs rarely probably in one in every

743

00:35:43,280 --> 00:35:40,770

70,000 untreated cases most cracks add

744

00:35:47,240 --> 00:35:43,290

what is basically good advice on diet

745

00:35:49,730 --> 00:35:47,250

exercise etc to their quack remedies it

746

00:35:52,970 --> 00:35:49,740

is the good advice if anything that

747

00:35:55,220 --> 00:35:52,980

benefits the patient but it is often the

748

00:35:58,880 --> 00:35:55,230

quack remedy that carries the mystique

749

00:36:01,100 --> 00:35:58,890

and receives the credit when a person

750

00:36:03,950 --> 00:36:01,110

feels better after using a quack remedy

751

00:36:07,520 --> 00:36:03,960

the cure can have two explanations

752

00:36:10,190 --> 00:36:07,530

either the remedy exerts a real effect

753

00:36:12,530 --> 00:36:10,200

or it exerts what is known as the

754

00:36:15,650 --> 00:36:12,540

placebo effect if the effect is real

755

00:36:18,530 --> 00:36:15,660

then it will be possible to reliably

756

00:36:22,400 --> 00:36:18,540

demonstrate this effect to unbiased

757

00:36:24,770 --> 00:36:22,410

observers if the effect is a placebo it

758

00:36:28,010 --> 00:36:24,780

can be explained by the patient's desire

759

00:36:31,130 --> 00:36:28,020

to believe in the cure the word placebo

760

00:36:33,950 --> 00:36:31,140

is Latin meaning I shall be pleasing in

761

00:36:36,860 --> 00:36:33,960

certain conditions such as arthritis and

762

00:36:39,530 --> 00:36:36,870

gastritis over 50% of sufferers may

763

00:36:42,740 --> 00:36:39,540

report improvement when given quack

764

00:36:43,880 --> 00:36:42,750

remedies the best placebos are

765

00:36:46,309 --> 00:36:43,890

substances such

766

00:36:48,920 --> 00:36:46,319

as vitamins or antibiotics because

767

00:36:50,630 --> 00:36:48,930

people know that they can have genuine

768

00:36:53,599 --> 00:36:50,640

value in treating certain health

769

00:36:55,880 --> 00:36:53,609

problems every doctor will be familiar

770

00:36:58,339 --> 00:36:55,890

with the fact that many patients will

771

00:37:01,190 --> 00:36:58,349

report immediate improvement with

772

00:37:03,920 --> 00:37:01,200

antibiotic treatment even though a real

773

00:37:06,980 --> 00:37:03,930

effect on the infection could not have

774

00:37:09,620 --> 00:37:06,990

occurred so quickly it is obviously

775

00:37:13,279 --> 00:37:09,630

important to know whether a drug is

776

00:37:16,670 --> 00:37:13,289

exerting a real or placebo effect or a

777

00:37:19,299 --> 00:37:16,680

mixture of the two this is why placebos

778

00:37:22,039 --> 00:37:19,309

are used in evaluation of new drugs

779

00:37:24,349 --> 00:37:22,049

during the evaluation one group of

780

00:37:26,539 --> 00:37:24,359

subjects is treated with a real drug and

781

00:37:27,349 --> 00:37:26,549

the other group is treated with a

782

00:37:30,079 --> 00:37:27,359

placebo

783

00:37:32,539 --> 00:37:30,089

making sure that both types of drug look

784

00:37:35,180 --> 00:37:32,549

and taste the same it is then usual to

785

00:37:37,759 --> 00:37:35,190

swap the real and placebo drugs for the

786

00:37:39,980 --> 00:37:37,769

second half of the evaluation in this

787

00:37:43,670 --> 00:37:39,990

way it is possible to make allowances

788

00:37:46,640 --> 00:37:43,680

for any recibo effect why do people go

789

00:37:49,089 --> 00:37:46,650

to quacks ill-defined

790

00:37:52,609 --> 00:37:49,099

symptoms such as chronic tiredness

791

00:37:55,609 --> 00:37:52,619

headaches depression and vague pains are

792

00:37:58,880 --> 00:37:55,619

extremely common they may result from

793

00:38:01,549 --> 00:37:58,890

worry overworked and poor relationships

794

00:38:04,249 --> 00:38:01,559

with others people often hesitate to

795

00:38:07,849 --> 00:38:04,259

take such problem to doctors but quacks

796

00:38:11,029 --> 00:38:07,859

can trade heavily on these quote trivial

797

00:38:13,819 --> 00:38:11,039

and quote complaints because these

798

00:38:16,549 --> 00:38:13,829

symptoms can be an expression of

799

00:38:18,829 --> 00:38:16,559

problems that are difficult to solve it

800

00:38:22,130 --> 00:38:18,839

is much easier to focus on bogus

801
00:38:26,180 --> 00:38:22,140
diagnosis and follow mysterious cures

802
00:38:28,849 --> 00:38:26,190
than to face the real issues when people

803
00:38:31,819 --> 00:38:28,859
do take ill-defined symptoms to doctors

804
00:38:35,089 --> 00:38:31,829
they are understandably dissatisfied

805
00:38:38,359 --> 00:38:35,099
when the doctor merely excludes serious

806
00:38:40,940 --> 00:38:38,369
illnesses and reassures them that there

807
00:38:42,920 --> 00:38:40,950
is nothing serious to worry about the

808
00:38:45,529 --> 00:38:42,930
patient still has the problem and may

809
00:38:48,289 --> 00:38:45,539
continue to look for an explanation and

810
00:38:51,380 --> 00:38:48,299
some relief this narrow perspective

811
00:38:54,109 --> 00:38:51,390
called the quote medical model and quota

812
00:38:56,420 --> 00:38:54,119
of illness is an important failing of

813
00:38:57,499 --> 00:38:56,430

the medical profession quacks often

814

00:39:01,309 --> 00:38:57,509

trade under this

815

00:39:04,569 --> 00:39:01,319

play of caring which contrasts with the

816

00:39:07,399 --> 00:39:04,579

more detached behavior of some doctors

817

00:39:10,279 --> 00:39:07,409

patients who face a diagnosis of illness

818

00:39:14,329 --> 00:39:10,289

such as cancer or AIDS which may be

819

00:39:16,939 --> 00:39:14,339

incurable and/or terminal can turn away

820

00:39:20,359 --> 00:39:16,949

from Orthodox medicine in the desperate

821

00:39:23,139 --> 00:39:20,369

hope of a cure some people are attracted

822

00:39:25,849 --> 00:39:23,149

by the mystical approach such as

823

00:39:30,379 --> 00:39:25,859

astrological diagnosis hair analysis

824

00:39:32,419 --> 00:39:30,389

iridology or pyramid power laymen have

825

00:39:34,849 --> 00:39:32,429

difficulty in distinguishing between

826

00:39:37,239 --> 00:39:34,859

obtuse language in Orthodox medicine and

827

00:39:41,870 --> 00:39:37,249

obtuse language in alternative medicine

828

00:39:43,939 --> 00:39:41,880

what is the harm in quackery many

829

00:39:48,199 --> 00:39:43,949

alternative approaches seem harmless

830

00:39:51,499 --> 00:39:48,209

enough but the dangers are a the

831

00:39:55,959 --> 00:39:51,509

possibility of delaying diagnosis of

832

00:39:59,689 --> 00:39:55,969

serious disease B the possibility of

833

00:40:04,159 --> 00:39:59,699

interfering with effective treatment C

834

00:40:07,639 --> 00:40:04,169

the likely cost both of the quack cure

835

00:40:11,809 --> 00:40:07,649

itself and the delayed treatment with

836

00:40:12,259 --> 00:40:11,819

Orthodox cures D the raising of false

837

00:40:14,569 --> 00:40:12,269

hopes

838

00:40:16,999 --> 00:40:14,579

especially when an individual is in the

839

00:40:20,659 --> 00:40:17,009

process of coming to terms with a

840

00:40:22,870 --> 00:40:20,669

serious illness E the possibility that

841

00:40:27,139 --> 00:40:22,880

some crack cures are actually harmful

842

00:40:31,279 --> 00:40:27,149

laetrile contains cyanide vitamins A and

843

00:40:32,870 --> 00:40:31,289

D can be toxic in high doses it should

844

00:40:35,179 --> 00:40:32,880

not be forgotten that alternative

845

00:40:37,370 --> 00:40:35,189

medicine represents a multi-million

846

00:40:40,279 --> 00:40:37,380

dollar industry with interest groups

847

00:40:42,069 --> 00:40:40,289

ready to lobby for its expansion the

848

00:40:45,019 --> 00:40:42,079

vitamin industry is a good example

849

00:40:47,059 --> 00:40:45,029

putting it all into perspective the

850

00:40:50,569 --> 00:40:47,069

laetrile industry in the United States

851
00:40:54,129 --> 00:40:50,579
was estimated to be worth two billion

852
00:40:57,019 --> 00:40:54,139
dollars in California alone in 1981

853
00:41:00,399 --> 00:40:57,029
rivaling the heroin trade in that state

854
00:41:04,149 --> 00:41:00,409
little wonder that the modern-day nave

855
00:41:07,560 --> 00:41:04,159
pursues the modern-day fool with such

856
00:41:12,220 --> 00:41:10,390
dr. Richard Gordon is a family doctor

857
00:41:14,410 --> 00:41:12,230
and member of the Australian skeptics

858
00:41:16,480 --> 00:41:14,420
National Committee this article is a

859
00:41:19,090 --> 00:41:16,490
version of a talk delivered at the

860
00:41:24,640 --> 00:41:19,100
fourth annual skeptics convention held

861
00:41:26,350 --> 00:41:24,650
in Sydney during April 1988 and it's

862
00:41:31,530 --> 00:41:26,360
worth noting that dr. Richard Gordon

863
00:41:34,990 --> 00:41:31,540

went on to be for some time president of

864

00:41:38,200 --> 00:41:35,000

Australian skeptic seek and this article

865

00:41:42,370 --> 00:41:38,210

once again can be found in the pages of

866

00:41:45,640 --> 00:41:42,380

the skeptic magazine vol 8 number 2 and

867

00:42:02,140 --> 00:41:45,650

is available for you to view free online

868

00:42:04,240 --> 00:42:02,150

a skeptics comm dot a you the skeptic

869

00:42:07,210 --> 00:42:04,250

magazine the journal from Australian

870

00:42:11,040 --> 00:42:07,220

skeptics subscribe online to the world's

871

00:42:14,380 --> 00:42:11,050

second oldest skeptical magazine visit

872

00:42:17,380 --> 00:42:14,390

WWF XCOM value and click the

873

00:42:21,790 --> 00:42:17,390

publication's link you can also find

874

00:42:24,940 --> 00:42:21,800

there over 30 years on back issues free

875

00:42:30,610 --> 00:42:24,950

to download the skeptic magazine from

876

00:42:30,620 --> 00:42:39,310

[Music]

877

00:42:43,110 --> 00:42:40,520

[Applause]

878

00:42:46,040 --> 00:42:43,120

thank you for listening to the skeptic

879

00:42:47,490 --> 00:42:46,050

zone if my voice seems a little bit

880

00:42:50,510 --> 00:42:47,500

flaky

881

00:42:53,130 --> 00:42:50,520

well I've guess I've just had a long day

882

00:42:56,220 --> 00:42:53,140

coming up next week I hope to bring you

883

00:42:58,170 --> 00:42:56,230

reports from Portland Oregon and Bend

884

00:43:00,060 --> 00:42:58,180

Oregon I'm flying up to visit my old

885

00:43:06,510 --> 00:43:00,070

friend Brian Dunning from the skeptoid

886

00:43:09,180 --> 00:43:06,520

podcast and I intend I hope to catch the

887

00:43:11,400 --> 00:43:09,190

show of oh no Ross and Kerry who are

888

00:43:14,280 --> 00:43:11,410

appearing in Portland Oregon next week

889

00:43:17,370 --> 00:43:14,290

and I will certainly bring you a report

890

00:43:20,400 --> 00:43:17,380

from that event a big thank you to Trish

891

00:43:22,350 --> 00:43:20,410

Hann who stepped in to cover skeptics in

892

00:43:25,290 --> 00:43:22,360

the pub Thank You Trish sincerely I

893

00:43:27,960 --> 00:43:25,300

really appreciate that and I'm thrilled

894

00:43:29,910 --> 00:43:27,970

to have you come aboard as a reporter on

895

00:43:31,890 --> 00:43:29,920

the sceptic zone thank you to those

896

00:43:34,200 --> 00:43:31,900

people who contribute with patreon or

897

00:43:36,900 --> 00:43:34,210

PayPal and to those people recently who

898

00:43:40,590 --> 00:43:36,910

have chipped in or come on board with

899

00:43:44,090 --> 00:43:40,600

patreon I will be sending you your bag

900

00:43:47,490 --> 00:43:44,100

of goodies soon things are a little bit

901
00:43:50,370 --> 00:43:47,500
strange for me at the moment I'm not in

902
00:43:52,890 --> 00:43:50,380
Australia but as soon as I can find that

903
00:43:55,590 --> 00:43:52,900
out your goodies will be on the way I

904
00:43:59,040 --> 00:43:55,600
miss being in Sydney although I must

905
00:44:01,290 --> 00:43:59,050
admit quite candidly I must admit I do

906
00:44:03,630 --> 00:44:01,300
not miss the heat and the humidity at

907
00:44:05,940 --> 00:44:03,640
this time of the year I am enjoying the

908
00:44:08,430 --> 00:44:05,950
cooler weather and wow I'm gonna cop

909
00:44:10,500 --> 00:44:08,440
some cooler weather next week in in

910
00:44:12,150 --> 00:44:10,510
Oregon but for this week

911
00:44:18,720 --> 00:44:12,160
this is Richard Saunders signing off

912
00:44:20,520 --> 00:44:18,730
from the San Francisco Bay Area you've

913
00:44:23,150 --> 00:44:20,530

been listening to the skeptic zone

914

00:44:29,820 --> 00:44:23,160

podcast please visit our website at

915

00:44:33,350 --> 00:44:29,830

wwlp.com tax and to access the bat

916

00:44:36,000 --> 00:44:33,360

catalog of episodes going back to 2008

917

00:44:39,300 --> 00:44:36,010

you can follow the skeptic zone podcast

918

00:44:41,580 --> 00:44:39,310

on twitter at skeptic zone visit our

919

00:44:42,880 --> 00:44:41,590

facebook page or leave a review on

920

00:44:45,130 --> 00:44:42,890

itunes

921

00:44:48,520 --> 00:44:45,140

you can also support the sceptic zone

922

00:44:51,910 --> 00:44:48,530

via patreon or PayPal the sceptic zone

923

00:44:53,620 --> 00:44:51,920

podcast is an independent production the

924

00:44:55,750 --> 00:44:53,630

views and opinions expressed on the

925

00:44:58,090 --> 00:44:55,760

sceptic zone are not necessarily those

926
00:44:59,890 --> 00:44:58,100
of Australian skeptics or any other

927
00:45:10,360 --> 00:44:59,900
skeptical organization

928
00:45:19,850 --> 00:45:13,700
hmm no matter where I record in the

929
00:45:22,220 --> 00:45:19,860
world there are aircraft noises amazing

930
00:45:26,900 --> 00:45:22,230
I'm nowhere near an airport I don't

931
00:45:27,710 --> 00:45:26,910
think good grief no wonder where that's

932
00:45:32,480 --> 00:45:27,720
going

933
00:45:37,109 --> 00:45:35,550
hard dice phones I've not forgotten you

934
00:45:38,730 --> 00:45:37,119
it's been a little while since we've

935
00:45:44,310 --> 00:45:38,740
played the dice game nevertheless here

936
00:45:47,250 --> 00:45:44,320
it is as I sit by a a cozy fireside with

937
00:45:51,000 --> 00:45:47,260
a gas fire looks real well it is real

938
00:45:55,020 --> 00:45:51,010

it's a real fire bits guess not wood and

939

00:45:56,880 --> 00:45:55,030

I have with me a tin sided die I want

940

00:46:00,870 --> 00:45:56,890

you to use your psychic predicting power

941

00:46:01,859 --> 00:46:00,880

and see if you can predict what numbers

942

00:46:05,550 --> 00:46:01,869

are gonna come up I'm gonna roll it

943

00:46:10,230 --> 00:46:05,560

three times three times are you

944

00:46:14,300 --> 00:46:10,240

predicting first number is four the

945

00:46:18,750 --> 00:46:14,310

first number is four okay predict again

946

00:46:22,980 --> 00:46:18,760

from one to ten here we go second number

947

00:46:30,020 --> 00:46:22,990

is eight four and eight four and eight

948

00:46:32,450 --> 00:46:30,030

last number coming up is here we go ten

949

00:46:35,849 --> 00:46:32,460

there's a pattern there somewhere folks