

1
00:00:05,950 --> 00:00:13,679
welcome to the skeptic zone the podcast

2
00:00:09,099 --> 00:00:13,679
from Australia for science and reason

3
00:00:23,178 --> 00:00:29,759
hello and welcome to the skeptic zone

4
00:00:25,949 --> 00:00:32,489
episode number 327 for the 25th of

5
00:00:29,759 --> 00:00:35,539
January 2015 Richard Saunders here with

6
00:00:32,488 --> 00:00:38,128
you from the Bay Area San Francisco and

7
00:00:35,539 --> 00:00:41,850
I think I brought some of the warm

8
00:00:38,128 --> 00:00:44,640
weather with me there are blooms on the

9
00:00:41,850 --> 00:00:46,829
trees flowers are coming out the days

10
00:00:44,640 --> 00:00:50,239
are fine and warm something is wrong

11
00:00:46,829 --> 00:00:52,890
folks I expected to be wrapped up in

12
00:00:50,238 --> 00:00:55,289
jumpers and coats and scarves and hats

13
00:00:52,890 --> 00:00:57,478
and gloves and all sorts of things no

14
00:00:55,289 --> 00:01:00,088
I'm getting around in um more or less a

15
00:00:57,478 --> 00:01:02,368
t-shirt but at least it's not as mucky

16
00:01:00,088 --> 00:01:04,408
as Sydney but that's enough of the

17
00:01:02,368 --> 00:01:05,819
winter report what's coming up on this

18
00:01:04,409 --> 00:01:08,219
week's show we're going to kick off with

19
00:01:05,819 --> 00:01:10,438
an interview with a really interesting

20
00:01:08,219 --> 00:01:15,390
fellow kidding joshi he's going to be

21
00:01:10,438 --> 00:01:17,789
talking about energy wind farms and wind

22
00:01:15,390 --> 00:01:23,040
farm illness or wind farm disease or

23
00:01:17,790 --> 00:01:24,780
wind farmed apparent negative effects

24
00:01:23,040 --> 00:01:26,579
from wind farms and things like that is

25
00:01:24,780 --> 00:01:29,099
it all in the mind is it all in the air

26
00:01:26,578 --> 00:01:30,839
is it all blowing in the wind find out

27
00:01:29,099 --> 00:01:33,269
with our interview coming up at the top

28
00:01:30,840 --> 00:01:34,618
of the show following that it's a week

29

00:01:33,269 --> 00:01:36,239
in science from our good friends at the

30
00:01:34,618 --> 00:01:37,920
Royal Institution of Australia and I

31
00:01:36,239 --> 00:01:41,248
think they've got a different backing

32
00:01:37,920 --> 00:01:42,659
track this week yes they've moved for

33
00:01:41,248 --> 00:01:44,849
the times a different backing tracker

34
00:01:42,659 --> 00:01:47,340
different music hmm see we think of that

35
00:01:44,849 --> 00:01:49,138
and then the round off the show it's a

36
00:01:47,340 --> 00:01:51,090
series of interviews with Maynard

37
00:01:49,138 --> 00:01:53,599
chatting to people at the Australian

38
00:01:51,090 --> 00:01:56,639
skeptics convention which was held last

39
00:01:53,599 --> 00:01:58,438
November sort of a grab bag of people

40
00:01:56,638 --> 00:02:00,718
lining up to get into various events

41
00:01:58,438 --> 00:02:02,398
what they think why they're there that

42
00:02:00,718 --> 00:02:03,989
sort of stuff and one of the people

43
00:02:02,399 --> 00:02:06,899

interviewed by Maynard is none other

44

00:02:03,989 --> 00:02:08,459
than Barry Williams Barry Williams known

45

00:02:06,899 --> 00:02:09,990
to Australian skeptics he's one of the

46

00:02:08,459 --> 00:02:11,729
most famous members of Australian

47

00:02:09,990 --> 00:02:13,110
skeptic he was the president for many

48

00:02:11,729 --> 00:02:15,479
years he was there right from the

49

00:02:13,110 --> 00:02:17,550
kickoff he's retired now but he came out

50

00:02:15,479 --> 00:02:19,799
of retirement to join us at the

51

00:02:17,550 --> 00:02:22,860
convention always an interesting man to

52

00:02:19,800 --> 00:02:24,510
chat to and also some extra bits from

53

00:02:22,860 --> 00:02:26,040
Michael Marshall and lots of other

54

00:02:24,509 --> 00:02:28,469
people too including some friends of

55

00:02:26,039 --> 00:02:30,079
ours from the Victorian skeptics that's

56

00:02:28,469 --> 00:02:33,030
coming up at the end of the show and

57

00:02:30,080 --> 00:02:34,560
speaking of may nod if you go to Maynard

58
00:02:33,030 --> 00:02:37,500
com got a

59
00:02:34,560 --> 00:02:39,930
there are videos and audio clips up

60
00:02:37,500 --> 00:02:42,120
there recently the radio station Triple

61
00:02:39,930 --> 00:02:44,879
J here in Australia celebrated its 40th

62
00:02:42,120 --> 00:02:46,860
birthday and Maynard for those in

63
00:02:44,879 --> 00:02:49,979
Australia of course Maynard was a huge

64
00:02:46,860 --> 00:02:53,580
part of triple j ah so go to Maynard

65
00:02:49,979 --> 00:02:56,129
comdata you and look for the triple j

66
00:02:53,580 --> 00:02:57,420
videos and audio thanks for those people

67
00:02:56,129 --> 00:03:00,449
who wrote in saying how much they

68
00:02:57,419 --> 00:03:02,280
enjoyed our new reporter Heidi Robertson

69
00:03:00,449 --> 00:03:04,229
the raw skeptic her report where she

70
00:03:02,280 --> 00:03:06,000
visited mind body spirit mind muddy

71
00:03:04,229 --> 00:03:10,979
wallet New Age fair whatever you want to

72
00:03:06,000 --> 00:03:13,259
call it and it really that reminds me I

73
00:03:10,979 --> 00:03:15,209
mean I've been going to these things for

74
00:03:13,259 --> 00:03:17,969
years and years and years as a skeptic

75
00:03:15,209 --> 00:03:20,098
zone listeners will know and I guess I

76
00:03:17,969 --> 00:03:23,009
really did need a fresh set of ears and

77
00:03:20,098 --> 00:03:25,159
eyes there to remind me something which

78
00:03:23,009 --> 00:03:28,769
is very important about these

79
00:03:25,159 --> 00:03:31,169
mind-body-spirit fairs is the fact that

80
00:03:28,769 --> 00:03:35,750
a lot of people there purporting to be

81
00:03:31,169 --> 00:03:39,389
healers or whatever simply don't know

82
00:03:35,750 --> 00:03:41,789
what they're talking about they've read

83
00:03:39,389 --> 00:03:44,849
junk they've put their own junk on top

84
00:03:41,789 --> 00:03:48,959
with junk we're wrapped in woo they

85
00:03:44,849 --> 00:03:51,509
think they know they have half an idea

86

00:03:48,959 --> 00:03:53,129
fine everybody's entitled to their

87
00:03:51,509 --> 00:03:55,798
opinion if they have half an idea of

88
00:03:53,129 --> 00:03:58,439
half an idea but I guess the point is

89
00:03:55,799 --> 00:04:02,879
these people are imparting this

90
00:03:58,439 --> 00:04:04,560
knowledge as if they know how people

91
00:04:02,879 --> 00:04:06,840
should handle their health and give

92
00:04:04,560 --> 00:04:09,870
advice and a lot of times they'll charge

93
00:04:06,840 --> 00:04:12,479
for it its consumer affairs issues with

94
00:04:09,870 --> 00:04:15,150
mind-body wallet festivals their safety

95
00:04:12,479 --> 00:04:17,129
issues ultimately there are people just

96
00:04:15,150 --> 00:04:21,660
peddling nonsense and dangerous nonsense

97
00:04:17,129 --> 00:04:24,329
of that maybe over this year 2015 will

98
00:04:21,660 --> 00:04:26,039
look more into the that aspect of the

99
00:04:24,329 --> 00:04:27,418
mind body while it fares maybe they've

100
00:04:26,038 --> 00:04:29,819

been getting away with it for far too

101

00:04:27,418 --> 00:04:32,519

long we'll see another thing that struck

102

00:04:29,819 --> 00:04:34,379

me this week but you're visiting the

103

00:04:32,519 --> 00:04:38,819

United States and looking at the TV news

104

00:04:34,379 --> 00:04:40,860

are the measles outbreak which seems to

105

00:04:38,819 --> 00:04:43,918

have started in Disneyland of all places

106

00:04:40,860 --> 00:04:47,908

is making the news and one of the points

107

00:04:43,918 --> 00:04:48,719

being made is that once the United

108

00:04:47,908 --> 00:04:51,420

States was

109

00:04:48,720 --> 00:04:55,800

sidered measles free and i guess the

110

00:04:51,420 --> 00:04:59,120

work of the anti-vaxxers over years is

111

00:04:55,800 --> 00:05:02,310

really starting to show now with

112

00:04:59,120 --> 00:05:03,660

outbreaks of measles people coming in

113

00:05:02,310 --> 00:05:05,879

from other countries to the United

114

00:05:03,660 --> 00:05:09,120

States who have measles unvaccinated

115
00:05:05,879 --> 00:05:11,360
kids running around it's it's

116
00:05:09,120 --> 00:05:15,030
astonishing measles whooping cough

117
00:05:11,360 --> 00:05:16,620
what's next we've been fighting the

118
00:05:15,029 --> 00:05:18,239
anti-vaxxers for many years on the

119
00:05:16,620 --> 00:05:22,379
skeptic zone and the Australian skeptics

120
00:05:18,240 --> 00:05:24,600
as you know I don't want to say that

121
00:05:22,379 --> 00:05:28,409
we're not making any progress because we

122
00:05:24,600 --> 00:05:33,360
really are we really are but the

123
00:05:28,410 --> 00:05:35,280
opposition is mobilized their effective

124
00:05:33,360 --> 00:05:37,199
unfortunately so we just have to keep on

125
00:05:35,279 --> 00:05:40,889
fighting and its people like dr. Reggie

126
00:05:37,199 --> 00:05:42,949
Joe alabaster Heidi Robertson who are

127
00:05:40,889 --> 00:05:46,319
really doing their bit to fight these

128
00:05:42,949 --> 00:05:48,149
these peddlers of disease and some of

129
00:05:46,319 --> 00:05:51,540
them really are peddlers of the disease

130
00:05:48,149 --> 00:05:53,039
they want children to get sick they want

131
00:05:51,540 --> 00:05:54,090
children to have measles and

132
00:05:53,040 --> 00:05:56,939
whooping-cough and all these other

133
00:05:54,089 --> 00:05:59,099
horrible diseases next week we're going

134
00:05:56,939 --> 00:06:01,680
to have an update on the Tenpenny tour

135
00:05:59,100 --> 00:06:04,200
or lack thereof Australia the last thing

136
00:06:01,680 --> 00:06:06,478
I've heard is it looks like the tour has

137
00:06:04,199 --> 00:06:09,180
been canceled due to pressure from the

138
00:06:06,478 --> 00:06:10,620
forces of reason but we'll see what

139
00:06:09,180 --> 00:06:12,090
happens in the coming week and Joe

140
00:06:10,620 --> 00:06:15,569
alabaster should be able to give us a

141
00:06:12,089 --> 00:06:17,639
little update next week well that's the

142
00:06:15,569 --> 00:06:20,339
rant over for now I'm going to run

143

00:06:17,639 --> 00:06:21,629
upstairs grab that lovely root beer and

144
00:06:20,339 --> 00:06:24,449
ice out of the fridge because it's a

145
00:06:21,629 --> 00:06:27,978
warm day well I'm doing that I hope you

146
00:06:24,449 --> 00:06:27,978
enjoy the skeptic zone

147
00:06:49,240 --> 00:06:54,769
and joining me on the line all the way

148
00:06:51,889 --> 00:06:58,699
from Australia well imagine that it's

149
00:06:54,769 --> 00:07:01,939
catan Georgie hello Irish it how is it

150
00:06:58,699 --> 00:07:05,959
over there in Australia it's absurdly

151
00:07:01,939 --> 00:07:07,759
hot I I walked outside and my arms melt

152
00:07:05,959 --> 00:07:09,859
it all and now I have no arms that's

153
00:07:07,759 --> 00:07:11,449
what I can actually do for the benefit

154
00:07:09,860 --> 00:07:13,639
of our listeners we're skypeing at the

155
00:07:11,449 --> 00:07:17,300
moment and you're right you have no arms

156
00:07:13,639 --> 00:07:19,639
I can see now it's ironic because I've

157
00:07:17,300 --> 00:07:22,840

come all the way here to California to

158

00:07:19,639 --> 00:07:25,729

what I assumed would be a lovely crisp

159

00:07:22,839 --> 00:07:27,769

winter only to find that there are

160

00:07:25,730 --> 00:07:29,300

flowers blooming and I'm walking around

161

00:07:27,769 --> 00:07:31,909

in a t-shirt I don't know what's going

162

00:07:29,300 --> 00:07:34,250

on I'm glad you could give me some time

163

00:07:31,910 --> 00:07:35,900

today because we're talking about things

164

00:07:34,250 --> 00:07:39,290

warming up we're talking about the

165

00:07:35,899 --> 00:07:42,589

environment one of your great areas of

166

00:07:39,290 --> 00:07:44,810

interest is renewable energy which sort

167

00:07:42,589 --> 00:07:46,250

of ties in rather nicely wind farms this

168

00:07:44,810 --> 00:07:47,720

sort of thing can you tell me a bit

169

00:07:46,250 --> 00:07:50,449

about your background and what you're

170

00:07:47,720 --> 00:07:53,120

doing at the moment yes I did a science

171

00:07:50,449 --> 00:07:55,430

degree and that was actually focusing on

172
00:07:53,120 --> 00:07:56,870
neuro and in psychology and after I

173
00:07:55,430 --> 00:07:58,430
finished I didn't really know what to do

174
00:07:56,870 --> 00:08:00,620
with myself so ended up in the renewable

175
00:07:58,430 --> 00:08:02,420
energy industry doing data analysis and

176
00:08:00,620 --> 00:08:04,730
I did data analysis for about two years

177
00:08:02,420 --> 00:08:06,439
and now I've ended up doing research and

178
00:08:04,730 --> 00:08:08,629
communications for wind energy company

179
00:08:06,439 --> 00:08:10,639
called infant energy but yeah I've been

180
00:08:08,629 --> 00:08:13,370
I've been a science loving skeptic my

181
00:08:10,639 --> 00:08:15,860
whole life and it's really fun to apply

182
00:08:13,370 --> 00:08:18,530
that to the industry in which I work and

183
00:08:15,860 --> 00:08:20,930
was it last year or the year before you

184
00:08:18,529 --> 00:08:23,959
actually gave a really great talk to a

185
00:08:20,930 --> 00:08:25,670
Sydney skeptics dinner meeting about a

186
00:08:23,959 --> 00:08:28,819
topic which I find really interesting

187
00:08:25,670 --> 00:08:30,710
because it will get to this as you

188
00:08:28,819 --> 00:08:33,230
pointed out in your talk this is hardly

189
00:08:30,709 --> 00:08:35,419
a new topic and we're talking about what

190
00:08:33,230 --> 00:08:37,190
is it renewable energy sickness or wind

191
00:08:35,419 --> 00:08:40,039
turbine sickness or what's the

192
00:08:37,190 --> 00:08:43,250
expression the name for that phenomenon

193
00:08:40,039 --> 00:08:45,339
was coined in 2009 by actually an

194
00:08:43,250 --> 00:08:46,960
American pediatrician

195
00:08:45,340 --> 00:08:49,480
and they and she called it wind turbine

196
00:08:46,960 --> 00:08:51,129
syndrome syndrome right but I mean it

197
00:08:49,480 --> 00:08:53,500
gets called different things all the

198
00:08:51,129 --> 00:08:56,500
time like it's just it's kind of just a

199
00:08:53,500 --> 00:08:58,450
catch-all term for a bunch of generic

200

00:08:56,500 --> 00:09:02,440
symptoms experienced by people who are

201
00:08:58,450 --> 00:09:04,920
within 10 to 30 kilometers of any wind

202
00:09:02,440 --> 00:09:07,420
farms of any size anywhere in the world

203
00:09:04,919 --> 00:09:10,120
so it's not really is precise definition

204
00:09:07,419 --> 00:09:13,479
its prey port and how does this syndrome

205
00:09:10,120 --> 00:09:15,669
manifest itself the attribution within

206
00:09:13,480 --> 00:09:17,769
the theory within kind of the the

207
00:09:15,669 --> 00:09:21,179
construct of the theory is that it comes

208
00:09:17,769 --> 00:09:23,110
about due to inaudible noise so so not

209
00:09:21,179 --> 00:09:26,829
sounds that you consciously perceive

210
00:09:23,110 --> 00:09:29,080
that an invisible inaudible kind of it's

211
00:09:26,830 --> 00:09:30,759
everywhere at the same time and it's

212
00:09:29,080 --> 00:09:32,950
really low frequency noise so it's below

213
00:09:30,759 --> 00:09:35,799
the threshold that our ears can detect

214
00:09:32,950 --> 00:09:36,910

and they call it infrasound I mean

215

00:09:35,799 --> 00:09:39,039

that's the technical name for it and

216

00:09:36,909 --> 00:09:41,889

it's below 20 Hertz which is really

217

00:09:39,039 --> 00:09:45,159

ridiculously low for you to hear that it

218

00:09:41,889 --> 00:09:47,379

has to be really really loud so if you

219

00:09:45,159 --> 00:09:48,490

ever like wound down the car window you

220

00:09:47,379 --> 00:09:49,870

know when you're in a highway to get

221

00:09:48,490 --> 00:09:51,399

that kind of like repetitive thumping

222

00:09:49,870 --> 00:09:53,529

noise that's actually mean in the

223

00:09:51,399 --> 00:09:56,259

infrasonic range but it's just so loud

224

00:09:53,529 --> 00:09:58,299

that you can you can perceive it so when

225

00:09:56,259 --> 00:10:00,759

I say it's not really this it's not

226

00:09:58,299 --> 00:10:03,929

really able to be perceived it is but it

227

00:10:00,759 --> 00:10:07,360

has to be stupidly loud yeah okay so

228

00:10:03,929 --> 00:10:09,129

normally the deadly situations with wind

229
00:10:07,360 --> 00:10:13,210
farms especially you can't hear it I

230
00:10:09,129 --> 00:10:15,399
mean if you're close to a wind turbine

231
00:10:13,210 --> 00:10:18,759
on the wind farms I haven't been what

232
00:10:15,399 --> 00:10:20,740
noise would you expect to hear basically

233
00:10:18,759 --> 00:10:22,029
you're a couple things if the turbulence

234
00:10:20,740 --> 00:10:23,379
shutting down or starting up you can

235
00:10:22,029 --> 00:10:25,089
hear a bit of like mechanical whirring

236
00:10:23,379 --> 00:10:26,889
and stuff like that from inside there

237
00:10:25,090 --> 00:10:29,440
inside the hub when it's just going

238
00:10:26,889 --> 00:10:30,909
normally what you hear is kind of a very

239
00:10:29,440 --> 00:10:33,310
sort of like gentle whooshing noise as

240
00:10:30,909 --> 00:10:35,079
it goes past the tower and that's

241
00:10:33,309 --> 00:10:38,079
actually when the blade goes past the

242
00:10:35,080 --> 00:10:40,120
tower the air compresses rum and it just

243
00:10:38,080 --> 00:10:41,470
kind of makes it like this but you you

244
00:10:40,120 --> 00:10:42,970
can kind of look it up online you know

245
00:10:41,470 --> 00:10:45,310
people there's a lot of people who have

246
00:10:42,970 --> 00:10:48,700
gone to win farms expecting like this

247
00:10:45,309 --> 00:10:50,559
cacophony of insane like painful death

248
00:10:48,700 --> 00:10:52,090
Orchestra coming from coming from the

249
00:10:50,559 --> 00:10:54,669
turbines what you just get is like this

250
00:10:52,090 --> 00:10:57,220
from four minutes it's pretty quiet

251
00:10:54,669 --> 00:10:57,740
basically and once you start heading

252
00:10:57,220 --> 00:11:02,000
away for

253
00:10:57,740 --> 00:11:03,620
winter by milvia down the road not a far

254
00:11:02,000 --> 00:11:06,169
distance I imagine you simply wouldn't

255
00:11:03,620 --> 00:11:08,240
hear anything at all yeah we did this a

256
00:11:06,169 --> 00:11:10,269
couple of days ago with some guesser at

257

00:11:08,240 --> 00:11:13,159
the wind farm that they wanted to hear

258
00:11:10,269 --> 00:11:14,509
the sound of the wind farm from 500

259
00:11:13,159 --> 00:11:15,919
meters away the one I mentioned before

260
00:11:14,509 --> 00:11:17,509
winter months in drive is meant to be

261
00:11:15,919 --> 00:11:20,689
active you know between 10 and 30

262
00:11:17,509 --> 00:11:22,429
kilometers which is pretty huge yeah 500

263
00:11:20,690 --> 00:11:25,250
meters away we couldn't perceive the

264
00:11:22,429 --> 00:11:27,169
noise there was this cow I think it was

265
00:11:25,250 --> 00:11:30,049
sick or something but it was just going

266
00:11:27,169 --> 00:11:32,599
nuts as well so we're even masking the

267
00:11:30,049 --> 00:11:34,939
noise it's a well-made you have G maybe

268
00:11:32,600 --> 00:11:36,889
the cows got the winter by the signal

269
00:11:34,940 --> 00:11:38,120
but actually that's it you know we can

270
00:11:36,889 --> 00:11:39,470
edit that bit out because we don't want

271
00:11:38,120 --> 00:11:42,340

people to know that the cows are getting

272

00:11:39,470 --> 00:11:44,899

mix interface we better keep that with

273

00:11:42,340 --> 00:11:46,639

we better get better keep that be quite

274

00:11:44,899 --> 00:11:47,929

so basically speaking when you're close

275

00:11:46,639 --> 00:11:50,029

to one of these things you'll hear

276

00:11:47,929 --> 00:11:51,889

something yeah you move away and then

277

00:11:50,029 --> 00:11:53,839

it's simply whatever sound is generated

278

00:11:51,889 --> 00:11:56,000

just drops below the human threshold but

279

00:11:53,840 --> 00:11:57,500

basically most of the noise that you get

280

00:11:56,000 --> 00:11:58,879

for a mechanical noise and that

281

00:11:57,500 --> 00:12:00,379

whooshing noise almost always gets

282

00:11:58,879 --> 00:12:02,000

drowned out by the wind itself the wind

283

00:12:00,379 --> 00:12:03,500

is quite noisy particularly when it

284

00:12:02,000 --> 00:12:05,870

collides with something so like a

285

00:12:03,500 --> 00:12:08,210

building or a tree and generally people

286

00:12:05,870 --> 00:12:10,820

tend to live in buildings or they live

287

00:12:08,210 --> 00:12:13,190

near trees so the noise that most people

288

00:12:10,820 --> 00:12:15,530

get in your wind farms is from trees and

289

00:12:13,190 --> 00:12:17,480

and the atmosphere colliding with your

290

00:12:15,529 --> 00:12:19,100

house which would you like what you hear

291

00:12:17,480 --> 00:12:21,830

regardless that's why when you're

292

00:12:19,100 --> 00:12:24,170

testing a wind farm you have to have

293

00:12:21,830 --> 00:12:25,850

what's called on-off testing so when

294

00:12:24,169 --> 00:12:27,529

when they're commissioned the government

295

00:12:25,850 --> 00:12:28,639

says basically you have to test the

296

00:12:27,529 --> 00:12:29,809

noise of your wind farm because they

297

00:12:28,639 --> 00:12:31,939

want to make sure that you're in within

298

00:12:29,809 --> 00:12:33,259

regulation it's kind of it's got some

299

00:12:31,940 --> 00:12:34,850

good scientific principles behind it in

300
00:12:33,259 --> 00:12:36,649
that there's a control there's a time

301
00:12:34,850 --> 00:12:38,990
period in which you switch the wind farm

302
00:12:36,649 --> 00:12:41,389
off and you go let's measure that

303
00:12:38,990 --> 00:12:42,740
background noise and then you switch the

304
00:12:41,389 --> 00:12:44,120
wind farm back on and you go here what's

305
00:12:42,740 --> 00:12:45,669
the difference you subtract the two and

306
00:12:44,120 --> 00:12:48,289
you and that's how you determine the

307
00:12:45,669 --> 00:12:50,209
noise output of the wing farm right I

308
00:12:48,289 --> 00:12:52,279
must admit when I first heard about this

309
00:12:50,210 --> 00:12:54,470
sort of thing it did strike me as odd

310
00:12:52,279 --> 00:12:55,519
because you'd think great wind farms

311
00:12:54,470 --> 00:12:58,100
doing something for the environment

312
00:12:55,519 --> 00:13:01,039
clean energy all the rest of it there

313
00:12:58,100 --> 00:13:02,810
are so many people railing against what

314

00:13:01,039 --> 00:13:05,089
we might call more traditional forms of

315
00:13:02,809 --> 00:13:06,258
energy and probably justly so oil and

316
00:13:05,090 --> 00:13:08,209
coal and all that sort of thing

317
00:13:06,259 --> 00:13:10,159
but they get people Rayleigh against

318
00:13:08,208 --> 00:13:12,318
wind farms most fascinating things I

319
00:13:10,159 --> 00:13:13,969
just I learned from you a year or so

320
00:13:12,318 --> 00:13:16,068
back when you gave a talk was this sort

321
00:13:13,970 --> 00:13:18,319
of resistance to this sort of new

322
00:13:16,068 --> 00:13:20,418
technology goes back quite a kind of way

323
00:13:18,318 --> 00:13:22,878
doesn't it it's it really it goes like a

324
00:13:20,418 --> 00:13:24,798
very long way I was actually professor

325
00:13:22,879 --> 00:13:26,449
Simon Chapman Sydney University brought

326
00:13:24,798 --> 00:13:28,369
this to my attention there's a paper in

327
00:13:26,448 --> 00:13:30,378
the British Medical Journal from the i

328
00:13:28,369 --> 00:13:32,209

think it was actually the 1800s if not

329

00:13:30,379 --> 00:13:35,959

after um actually don't remember when

330

00:13:32,208 --> 00:13:37,458

the telephone I should know that huh but

331

00:13:35,958 --> 00:13:39,318

whatever that was invented there was a

332

00:13:37,458 --> 00:13:41,808

letter there was a full letter in there

333

00:13:39,318 --> 00:13:44,628

in the bmj about the health risks of

334

00:13:41,808 --> 00:13:47,208

landline telephones well and the list of

335

00:13:44,629 --> 00:13:48,499

symptoms is really one of the most

336

00:13:47,208 --> 00:13:50,958

fascinating things I've read because

337

00:13:48,499 --> 00:13:53,808

it's almost identical to many of these

338

00:13:50,958 --> 00:13:55,578

contemporary syndromes yeah but we hear

339

00:13:53,808 --> 00:13:57,288

about that it's a very similar list

340

00:13:55,578 --> 00:13:59,988

every single time it's it's something

341

00:13:57,288 --> 00:14:02,928

it's it's nausea headaches sleeplessness

342

00:13:59,989 --> 00:14:06,319

anxiety kind of like this just feeling

343
00:14:02,928 --> 00:14:08,119
of panic along with this kind of really

344
00:14:06,318 --> 00:14:09,889
visceral fear that you just get in the

345
00:14:08,119 --> 00:14:11,809
pit of your stomach and that translates

346
00:14:09,889 --> 00:14:13,038
into a lot of actual real symptoms you

347
00:14:11,808 --> 00:14:15,048
know you know when you when you're

348
00:14:13,038 --> 00:14:17,208
anxious like that you do tend to get

349
00:14:15,048 --> 00:14:19,159
more sick that's the roles will be well

350
00:14:17,208 --> 00:14:21,878
established kind of outcome of being

351
00:14:19,159 --> 00:14:24,230
worried about that like a prevalence

352
00:14:21,879 --> 00:14:26,058
piece of technology that's new you all

353
00:14:24,230 --> 00:14:27,859
the time something new and something

354
00:14:26,058 --> 00:14:28,999
you're not used to maybe well that's

355
00:14:27,859 --> 00:14:30,350
adventure the telephone that's

356
00:14:28,999 --> 00:14:32,720
interesting I didn't know that but let's

357
00:14:30,350 --> 00:14:34,759
advance of to not that long ago when

358
00:14:32,720 --> 00:14:35,899
cell phone mobile phone towers started

359
00:14:34,759 --> 00:14:37,278
popping up and this is a very

360
00:14:35,899 --> 00:14:39,409
interesting point that you pointed out

361
00:14:37,278 --> 00:14:42,048
as well it has all the same features

362
00:14:39,409 --> 00:14:44,088
really um and that's kind of ubiquity

363
00:14:42,048 --> 00:14:45,619
it's kind of it's everywhere right and

364
00:14:44,089 --> 00:14:47,569
they're really visible so when telegraph

365
00:14:45,619 --> 00:14:49,850
wires went up they were really visible

366
00:14:47,568 --> 00:14:51,108
to and now we're getting those you seen

367
00:14:49,850 --> 00:14:53,449
their cell phone towers on top of

368
00:14:51,109 --> 00:14:55,699
buildings with the white you know sort

369
00:14:53,448 --> 00:14:57,288
of transmission array they often have to

370
00:14:55,698 --> 00:14:59,058
put them on top of residential buildings

371

00:14:57,288 --> 00:15:00,828
when I was actually researching that

372
00:14:59,058 --> 00:15:02,719
talk I found some interesting articles

373
00:15:00,828 --> 00:15:04,788
about it and I tweeted them just as kind

374
00:15:02,720 --> 00:15:06,048
of like hey check out this interesting

375
00:15:04,788 --> 00:15:07,879
you know isn't it interesting that

376
00:15:06,048 --> 00:15:10,668
people are worried about this and when I

377
00:15:07,879 --> 00:15:12,528
tweeted a bunch of active groups started

378
00:15:10,668 --> 00:15:14,149
responding to me saying thank you for

379
00:15:12,528 --> 00:15:16,309
sharing our story you know we

380
00:15:14,149 --> 00:15:18,199
this is a planned telstra tower on top

381
00:15:16,309 --> 00:15:19,849
of our building we appreciate that

382
00:15:18,200 --> 00:15:21,170
you're you know raising awareness of

383
00:15:19,850 --> 00:15:25,580
that that's like I think you've got the

384
00:15:21,169 --> 00:15:27,049
wrong idea I think I actually did have a

385
00:15:25,580 --> 00:15:29,000

good chat with them because you know

386

00:15:27,049 --> 00:15:31,099

it's interesting to kind of get an idea

387

00:15:29,000 --> 00:15:33,169

of where they're coming from why are

388

00:15:31,100 --> 00:15:35,300

they scared and what kind of drilling

389

00:15:33,169 --> 00:15:38,029

down to what their fears are and much of

390

00:15:35,299 --> 00:15:39,469

that fear comes from having no control

391

00:15:38,029 --> 00:15:41,149

over the development of these things I

392

00:15:39,470 --> 00:15:42,649

reckon if you did a survey with those

393

00:15:41,149 --> 00:15:43,970

people grew worried about landline

394

00:15:42,649 --> 00:15:47,000

telephones you know hundreds of years

395

00:15:43,970 --> 00:15:48,259

ago or 100 years ago you would probably

396

00:15:47,000 --> 00:15:49,879

get the same thing they're like well I'm

397

00:15:48,259 --> 00:15:51,080

angry and I'm freaked out because I

398

00:15:49,879 --> 00:15:53,389

can't do anything about it and I'm

399

00:15:51,080 --> 00:15:54,889

peevd about that and I'm gonna get work

400
00:15:53,389 --> 00:15:57,049
gives them something if they're not

401
00:15:54,889 --> 00:15:59,149
feeling well or people some people are

402
00:15:57,049 --> 00:16:01,939
prone to I don't know hypochondria I

403
00:15:59,149 --> 00:16:03,860
guess it gives them a um a reason when

404
00:16:01,940 --> 00:16:04,910
someone is sick and they don't know

405
00:16:03,860 --> 00:16:07,610
what's causing it and they go to a

406
00:16:04,909 --> 00:16:09,409
doctor in the doctors like uninor we've

407
00:16:07,610 --> 00:16:11,029
got no idea and then someone else comes

408
00:16:09,409 --> 00:16:12,740
along and says well I know I know what's

409
00:16:11,029 --> 00:16:14,809
wrong with you is it's this particular

410
00:16:12,740 --> 00:16:17,360
thing that's near you yeah it's quite a

411
00:16:14,809 --> 00:16:18,709
relief i can probably like it so there

412
00:16:17,360 --> 00:16:22,669
was some news that came out this week

413
00:16:18,710 --> 00:16:24,710
which are basically it was like a 490

414
00:16:22,669 --> 00:16:26,360
page report and it's a really

415
00:16:24,710 --> 00:16:28,280
fascinating development with this whole

416
00:16:26,360 --> 00:16:31,610
winged turbine syndrome thing because

417
00:16:28,279 --> 00:16:33,470
it's a study that involved six residents

418
00:16:31,610 --> 00:16:34,700
from three separate households at a wing

419
00:16:33,470 --> 00:16:36,410
phone called the cape bridgewater wind

420
00:16:34,700 --> 00:16:38,509
farm we sort of same stuff like this

421
00:16:36,409 --> 00:16:40,250
before where they'll survey a select

422
00:16:38,509 --> 00:16:42,110
really small number of like

423
00:16:40,250 --> 00:16:44,149
non-representative residents and then

424
00:16:42,110 --> 00:16:46,639
take those results to be representative

425
00:16:44,149 --> 00:16:48,110
of the wider population which as you and

426
00:16:46,639 --> 00:16:49,759
I know that's not a not a particularly

427
00:16:48,110 --> 00:16:52,820
good scientific method right because

428

00:16:49,759 --> 00:16:54,559
it's it says its selection bias but the

429
00:16:52,820 --> 00:16:55,940
unique thing about this study is that it

430
00:16:54,559 --> 00:16:57,709
was actually commissioned by the wind

431
00:16:55,940 --> 00:16:59,030
farm operator and so what they did was

432
00:16:57,710 --> 00:17:00,700
they said to these residents in

433
00:16:59,029 --> 00:17:03,350
complaining for a really long time and

434
00:17:00,700 --> 00:17:05,690
then commissioned acoustic studies from

435
00:17:03,350 --> 00:17:07,190
you know just basically a randomly

436
00:17:05,690 --> 00:17:08,900
chosen acoustic consulting and they

437
00:17:07,190 --> 00:17:10,338
could never find anything right now just

438
00:17:08,900 --> 00:17:11,810
like look that we've studied there's so

439
00:17:10,338 --> 00:17:13,399
many times and there's nothing we can't

440
00:17:11,809 --> 00:17:15,289
find anything different about this wind

441
00:17:13,400 --> 00:17:17,209
farm yet the residents keep complaining

442
00:17:15,289 --> 00:17:18,829

residents you guys choose your

443

00:17:17,209 --> 00:17:20,330

acoustician we're not get it because you

444

00:17:18,829 --> 00:17:21,559

obviously you want it like you're not

445

00:17:20,329 --> 00:17:23,750

happy with our choice to do kiss did

446

00:17:21,559 --> 00:17:25,849

buku station so you guys choose that too

447

00:17:23,750 --> 00:17:28,189

who does the study and

448

00:17:25,849 --> 00:17:31,730

did but the manager the study has

449

00:17:28,189 --> 00:17:34,130

basically done work for anti-wind groups

450

00:17:31,730 --> 00:17:36,679

before oh yeah this study that he did is

451

00:17:34,130 --> 00:17:38,330

in my opinion a pretty poor study but

452

00:17:36,679 --> 00:17:39,740

the most stunning there's two really

453

00:17:38,329 --> 00:17:41,149

important stories here one is that he

454

00:17:39,740 --> 00:17:43,099

did it really didn't do very good

455

00:17:41,150 --> 00:17:45,080

science but the second really important

456

00:17:43,099 --> 00:17:47,389

thing is that a letter was written by

457
00:17:45,079 --> 00:17:48,859
those residents right and they published

458
00:17:47,390 --> 00:17:50,570
it on the website of this group called

459
00:17:48,859 --> 00:17:53,449
corporate foundation now the Water

460
00:17:50,569 --> 00:17:55,730
Foundation are an organization who are

461
00:17:53,450 --> 00:17:57,230
basically dedicated to propagating the

462
00:17:55,730 --> 00:17:59,029
wind turbine syndrome theory to

463
00:17:57,230 --> 00:18:00,380
communities near wind farms right there

464
00:17:59,029 --> 00:18:02,210
often describing the media as an anti

465
00:18:00,380 --> 00:18:03,980
win group and I would pretty much concur

466
00:18:02,210 --> 00:18:06,110
with that in that they focus on

467
00:18:03,980 --> 00:18:07,880
basically regulating we climbed out of

468
00:18:06,109 --> 00:18:09,589
existence right they published this

469
00:18:07,880 --> 00:18:11,750
statement from these residents who were

470
00:18:09,589 --> 00:18:12,980
in this study it's probably the most

471
00:18:11,750 --> 00:18:16,308
interesting part of it because the

472
00:18:12,980 --> 00:18:19,519
residents say we we are relieved we're

473
00:18:16,308 --> 00:18:21,200
happy because this study tells us what

474
00:18:19,519 --> 00:18:22,730
we saw all along the wind farms were

475
00:18:21,200 --> 00:18:24,048
causing our symptoms so I should I

476
00:18:22,730 --> 00:18:25,880
didn't mention what the results of the

477
00:18:24,048 --> 00:18:28,220
study were what he did was he got the

478
00:18:25,880 --> 00:18:29,179
residents to fill in Diaries oh yeah I /

479
00:18:28,220 --> 00:18:32,329
measurements from the wind farm at the

480
00:18:29,179 --> 00:18:34,250
same time measured noise and he measured

481
00:18:32,329 --> 00:18:37,369
something that he invented for the study

482
00:18:34,250 --> 00:18:39,619
called sensation sensation is what we

483
00:18:37,369 --> 00:18:41,418
were just mentioning before with the

484
00:18:39,619 --> 00:18:43,939
symptoms experienced with telephone

485

00:18:41,419 --> 00:18:45,980
lines decades ago and mobile phone tower

486
00:18:43,940 --> 00:18:48,769
as well as those stuff it's nausea its

487
00:18:45,980 --> 00:18:50,870
headaches ankush pneus it's some unease

488
00:18:48,769 --> 00:18:52,759
like you know in your stomach that sort

489
00:18:50,869 --> 00:18:54,439
of thing yeah he heralded it is like you

490
00:18:52,759 --> 00:18:56,240
know this is a new type of acoustic

491
00:18:54,440 --> 00:18:58,640
study it has never been done before and

492
00:18:56,240 --> 00:19:00,230
it has it has been basically he found

493
00:18:58,640 --> 00:19:02,059
that there was no correlation between

494
00:19:00,230 --> 00:19:04,970
noise reports there was no correlation

495
00:19:02,058 --> 00:19:08,359
between low frequency noise and noise

496
00:19:04,970 --> 00:19:12,110
reports but what he did find there was a

497
00:19:08,359 --> 00:19:15,889
slight increase in severity in sensation

498
00:19:12,109 --> 00:19:19,548
reports during periods of higher power

499
00:19:15,890 --> 00:19:21,049

output but not noise output which is I

500

00:19:19,548 --> 00:19:22,369

won't go too far into it because we're

501

00:19:21,048 --> 00:19:24,740

going to have the talk of it basically

502

00:19:22,369 --> 00:19:26,959

my first instinct on reading that was

503

00:19:24,740 --> 00:19:28,190

war what do you mean by correlation is

504

00:19:26,960 --> 00:19:29,808

that a statistically significant

505

00:19:28,190 --> 00:19:32,750

correlation what kind of measures did

506

00:19:29,808 --> 00:19:34,908

you use and there's a quote in an

507

00:19:32,750 --> 00:19:36,798

article that just came out yesterday or

508

00:19:34,909 --> 00:19:38,150

the day before where he just said oh

509

00:19:36,798 --> 00:19:39,319

look what I did was

510

00:19:38,150 --> 00:19:41,420

look at label to when they were

511

00:19:39,319 --> 00:19:43,789

reporting impacts and I just work

512

00:19:41,420 --> 00:19:47,539

backwards from there and found noise

513

00:19:43,789 --> 00:19:50,960

output to correlated with that it's just

514
00:19:47,539 --> 00:19:52,339
like that's not great science lavoie and

515
00:19:50,960 --> 00:19:53,779
he says that an article right like I'm

516
00:19:52,339 --> 00:19:55,519
not I'm not paraphrasing that you know

517
00:19:53,779 --> 00:19:56,569
this is um this isn't an article in The

518
00:19:55,519 --> 00:19:58,220
Australian that was published on

519
00:19:56,569 --> 00:20:00,559
Thursday by their environmentally

520
00:19:58,220 --> 00:20:03,110
redditor Graeme Lloyd and he also says

521
00:20:00,559 --> 00:20:04,909
well sure they reported sensations when

522
00:20:03,109 --> 00:20:08,209
the wind turbines were off but the wind

523
00:20:04,910 --> 00:20:10,519
turbines were vibrating due to the wind

524
00:20:08,210 --> 00:20:12,980
and that's why they were reporting

525
00:20:10,519 --> 00:20:15,230
sensations in their Diaries during the

526
00:20:12,980 --> 00:20:16,430
shutdown period which again right like

527
00:20:15,230 --> 00:20:17,809
you think about you think about the

528
00:20:16,430 --> 00:20:19,549
scientific method there and you think

529
00:20:17,809 --> 00:20:22,279
about what a normal scientific study

530
00:20:19,549 --> 00:20:25,009
would do they would say well that seems

531
00:20:22,279 --> 00:20:26,779
to be a confounder because perhaps all

532
00:20:25,009 --> 00:20:28,970
the recitation reports before migrating

533
00:20:26,779 --> 00:20:30,200
went to the buttons or suddenly

534
00:20:28,970 --> 00:20:32,089
something Elementary in something else

535
00:20:30,200 --> 00:20:34,160
we think we're measuring a correlation

536
00:20:32,089 --> 00:20:36,889
between wind farm noise and these diary

537
00:20:34,160 --> 00:20:40,160
reports but it's actually it's something

538
00:20:36,890 --> 00:20:42,170
completely different right so again

539
00:20:40,160 --> 00:20:43,790
there's a lot there's a lot wrong with a

540
00:20:42,170 --> 00:20:45,500
study found that but those are probably

541
00:20:43,789 --> 00:20:47,329
the two key parts but the residents

542

00:20:45,500 --> 00:20:49,430
residents looked at this study and they

543
00:20:47,329 --> 00:20:51,409
were like thank God you know like we've

544
00:20:49,430 --> 00:20:53,480
been told that we're making it up and

545
00:20:51,410 --> 00:20:55,910
with the toll that were liars and you

546
00:20:53,480 --> 00:20:58,579
know finally we get something that that

547
00:20:55,910 --> 00:21:00,890
tells us that our sickness our health

548
00:20:58,579 --> 00:21:02,779
problems are caused by this thing and

549
00:21:00,890 --> 00:21:05,180
with them we're happy what they say in

550
00:21:02,779 --> 00:21:07,549
this letter is like thank you you know

551
00:21:05,180 --> 00:21:10,400
for taking the time for spending like

552
00:21:07,549 --> 00:21:13,490
hours and weeks and days just talking to

553
00:21:10,400 --> 00:21:15,380
us right and when I was reading that the

554
00:21:13,490 --> 00:21:18,829
thing that immediately sprang to my mind

555
00:21:15,380 --> 00:21:20,960
was homeopathy because the thing I I've

556
00:21:18,829 --> 00:21:23,539

sort of noticed with homeopathy is

557

00:21:20,960 --> 00:21:25,370

people who who undergo and actually a

558

00:21:23,539 --> 00:21:28,009

close relative of mine is currently

559

00:21:25,369 --> 00:21:29,899

taking homeopathic treatments and I was

560

00:21:28,009 --> 00:21:32,509

talking to her about what is it that

561

00:21:29,900 --> 00:21:34,460

attracts you to it and she's like it's

562

00:21:32,509 --> 00:21:35,720

that they take the time to listen to me

563

00:21:34,460 --> 00:21:37,190

and they don't say that I'm that I'm

564

00:21:35,720 --> 00:21:38,509

wrong they just they just kind of like

565

00:21:37,190 --> 00:21:39,890

sit there and they listen and they kind

566

00:21:38,509 --> 00:21:42,230

of tell me that I'm right you know yeah

567

00:21:39,890 --> 00:21:45,020

I'll be that my belief in homeopathy

568

00:21:42,230 --> 00:21:46,670

isn't misplaced they say you've made the

569

00:21:45,019 --> 00:21:48,109

right choice here you're not you aren't

570

00:21:46,670 --> 00:21:49,680

deluded you're not you're not wrong

571
00:21:48,109 --> 00:21:51,599
about this they basically

572
00:21:49,680 --> 00:21:53,039
hang with them right so so this is what

573
00:21:51,599 --> 00:21:54,869
really stands out to me with this recent

574
00:21:53,039 --> 00:21:57,180
study is that what happened is someone

575
00:21:54,869 --> 00:22:00,119
found found a group of people with a

576
00:21:57,180 --> 00:22:01,830
belief and reinforce that belief oh yeah

577
00:22:00,119 --> 00:22:04,049
better than own content that they

578
00:22:01,829 --> 00:22:06,960
reinforce that belief with not very good

579
00:22:04,049 --> 00:22:08,519
science yeah well I mean but these

580
00:22:06,960 --> 00:22:11,130
people really didn't need convincing

581
00:22:08,519 --> 00:22:13,049
before we've come across this sort of

582
00:22:11,130 --> 00:22:14,700
people it's like homeopathy they don't

583
00:22:13,049 --> 00:22:17,369
need convincing they know what's right

584
00:22:14,700 --> 00:22:19,140
but when someone confirms what they

585
00:22:17,369 --> 00:22:22,069
already knows to be true then they're

586
00:22:19,140 --> 00:22:24,810
more set in it we also look at things

587
00:22:22,069 --> 00:22:26,399
along the similar lines here we have the

588
00:22:24,809 --> 00:22:27,990
telephone the worries with that we've

589
00:22:26,400 --> 00:22:31,710
got the wind turbines or cell phones

590
00:22:27,990 --> 00:22:33,120
that smart meters smart meters to and

591
00:22:31,710 --> 00:22:35,400
you've discovered that this is similar

592
00:22:33,119 --> 00:22:37,769
would now you have a name for this I

593
00:22:35,400 --> 00:22:40,500
called it everything syndrome yeah and

594
00:22:37,769 --> 00:22:41,879
it's actually intend to basically put

595
00:22:40,500 --> 00:22:43,740
all this into a paper or something and

596
00:22:41,880 --> 00:22:46,500
then don't know publish it somewhere if

597
00:22:43,740 --> 00:22:49,079
I can I think smart meters are unique in

598
00:22:46,500 --> 00:22:51,359
that just the raw passion behind it is

599

00:22:49,079 --> 00:22:52,619
is unparalleled Wyoming people are

600
00:22:51,359 --> 00:22:54,149
passionate about the wind turbine

601
00:22:52,619 --> 00:22:55,379
syndrome thing as well and they were

602
00:22:54,150 --> 00:22:58,710
passionate about the cell phone thing

603
00:22:55,380 --> 00:23:01,890
too but I don't know why but the smart

604
00:22:58,710 --> 00:23:03,960
leader thing just gets people furious in

605
00:23:01,890 --> 00:23:05,580
an unmatched way there are some YouTube

606
00:23:03,960 --> 00:23:09,269
videos of protests that are held outside

607
00:23:05,579 --> 00:23:12,929
on local the offices of parliamentarians

608
00:23:09,269 --> 00:23:15,269
in Victoria and the the emotion behind

609
00:23:12,930 --> 00:23:18,269
some of these protests is is really

610
00:23:15,269 --> 00:23:21,750
really strong and I'm actually a bit

611
00:23:18,269 --> 00:23:24,240
baffled as to why it's different for

612
00:23:21,750 --> 00:23:25,859
smart meters and I suppose my guess is

613
00:23:24,240 --> 00:23:28,140

simply that it's closer to people's

614

00:23:25,859 --> 00:23:30,000

homes right like I think that's it yeah

615

00:23:28,140 --> 00:23:32,160

I think that's it it's in it's in their

616

00:23:30,000 --> 00:23:34,829

home and they've been told this is

617

00:23:32,160 --> 00:23:36,420

making them sick yeah i can i can

618

00:23:34,829 --> 00:23:37,980

understand some people would get

619

00:23:36,420 --> 00:23:39,090

incredibly passionate about it

620

00:23:37,980 --> 00:23:41,339

especially if they think they're getting

621

00:23:39,089 --> 00:23:43,379

sick or the family's getting sick yeah

622

00:23:41,339 --> 00:23:45,199

and it's just it's a similar thing right

623

00:23:43,380 --> 00:23:47,460

so so if it's a government-mandated

624

00:23:45,200 --> 00:23:49,710

rollout so if the government says we

625

00:23:47,460 --> 00:23:50,940

want wind turbines across our lands and

626

00:23:49,710 --> 00:23:52,380

there and then the government and you

627

00:23:50,940 --> 00:23:53,910

know they can't have introduced asking

628
00:23:52,380 --> 00:23:56,490
to do that then there's going to be more

629
00:23:53,910 --> 00:23:57,750
chance of people strangely like does it

630
00:23:56,490 --> 00:23:59,250
seem like I could like an intuitive

631
00:23:57,750 --> 00:24:01,599
thing that somehow there's a link that

632
00:23:59,250 --> 00:24:03,910
where people are more likely to

633
00:24:01,599 --> 00:24:05,589
feel ill because you know that they're

634
00:24:03,910 --> 00:24:07,630
in tribute to the to the presence of

635
00:24:05,589 --> 00:24:09,579
that thing in Victoria the rollout of

636
00:24:07,630 --> 00:24:11,559
smart me smart meters was mandatory and

637
00:24:09,579 --> 00:24:15,668
in New South Wales is going to be

638
00:24:11,558 --> 00:24:18,490
optional and my guess is that you'll get

639
00:24:15,669 --> 00:24:21,130
a much lower rate of people complaining

640
00:24:18,490 --> 00:24:22,179
about smart near syndrome basically in

641
00:24:21,130 --> 00:24:24,250
New South Wales than you will in

642
00:24:22,179 --> 00:24:25,240
Victoria and that's kind of why I one of

643
00:24:24,250 --> 00:24:26,679
you know it like put something together

644
00:24:25,240 --> 00:24:29,620
and get it in writing like this is my

645
00:24:26,679 --> 00:24:31,900
guess you know I bet I won't get the

646
00:24:29,619 --> 00:24:33,428
same type of groups in the Victorian

647
00:24:31,900 --> 00:24:35,980
election there was a group called people

648
00:24:33,429 --> 00:24:37,450
power no smart leaders and they when I

649
00:24:35,980 --> 00:24:39,579
think they I camera now how many votes

650
00:24:37,450 --> 00:24:40,630
they got it wasn't a huge number i don't

651
00:24:39,579 --> 00:24:42,308
think they got a seat in the Senate

652
00:24:40,630 --> 00:24:44,140
they're on their website what they were

653
00:24:42,308 --> 00:24:47,678
basically saying as part of their policy

654
00:24:44,140 --> 00:24:49,929
is every single human being who lives in

655
00:24:47,679 --> 00:24:52,330
a residence in Victoria should have the

656

00:24:49,929 --> 00:24:55,360
right to veto any technology within a

657
00:24:52,329 --> 00:24:56,740
reasonable distance of their home and

658
00:24:55,359 --> 00:24:58,569
that's anything right like that wasn't

659
00:24:56,740 --> 00:25:00,700
limited to smile so someone wants to

660
00:24:58,569 --> 00:25:03,399
build I don't know a bus stop with an

661
00:25:00,700 --> 00:25:05,080
LCD display that would fall under the

662
00:25:03,400 --> 00:25:07,330
heading of technology so you could say

663
00:25:05,079 --> 00:25:09,009
not yeah but I bet they burglarized

664
00:25:07,329 --> 00:25:10,569
themselves by talking on their cell

665
00:25:09,009 --> 00:25:12,339
phones though is that I think there's a

666
00:25:10,569 --> 00:25:15,279
caveat on their website but like this is

667
00:25:12,339 --> 00:25:19,240
all done through ethernet cables no not

668
00:25:15,279 --> 00:25:21,460
wife but I actually really relish you

669
00:25:19,240 --> 00:25:22,750
know taking the taking time to just read

670
00:25:21,460 --> 00:25:24,250

what they're saying and listen to the

671

00:25:22,750 --> 00:25:25,990

kind of things that they put online the

672

00:25:24,250 --> 00:25:28,179

videos because it gives us a really

673

00:25:25,990 --> 00:25:30,759

really important insight into how people

674

00:25:28,179 --> 00:25:33,159

react technology well the new energy

675

00:25:30,759 --> 00:25:35,440

push it's not an easy road I you know

676

00:25:33,159 --> 00:25:36,760

when I was a kid growing up in the 70s I

677

00:25:35,440 --> 00:25:39,308

remember seeing bumper stickers that

678

00:25:36,759 --> 00:25:41,319

would say solar energy the way of the

679

00:25:39,308 --> 00:25:43,690

future well I'm in the future I'm still

680

00:25:41,319 --> 00:25:45,189

waiting for it I know it'll come and I

681

00:25:43,690 --> 00:25:47,200

know I know it'll be a good thing it's

682

00:25:45,190 --> 00:25:48,460

just taking a long time listener qatar

683

00:25:47,200 --> 00:25:50,558

where can people find out more about

684

00:25:48,460 --> 00:25:53,440

what you're up to I've got a blog that

685
00:25:50,558 --> 00:25:56,288
is just called some air or much-loved

686
00:25:53,440 --> 00:26:00,130
blogspot com value ah I don't know why I

687
00:25:56,288 --> 00:26:02,769
chose a German name is known action they

688
00:26:00,130 --> 00:26:04,840
want to say we had missiles in Germany

689
00:26:02,769 --> 00:26:06,700
it's all right it's possible okay um

690
00:26:04,839 --> 00:26:10,720
it's probably a lot better to just go to

691
00:26:06,700 --> 00:26:12,819
my Twitter feed which is catan j 0 and x

692
00:26:10,720 --> 00:26:14,860
j 0 and or you can just go

693
00:26:12,819 --> 00:26:16,869
my name that's usually better because

694
00:26:14,859 --> 00:26:18,428
Google will tell you everything alright

695
00:26:16,869 --> 00:26:20,619
so those people out there who were

696
00:26:18,429 --> 00:26:22,659
afraid of the user depth and Wi-Fi and

697
00:26:20,619 --> 00:26:25,148
smart meters and wind turbines and

698
00:26:22,659 --> 00:26:27,009
telephones and heaven knows one run to

699
00:26:25,148 --> 00:26:28,418
the blog and have a look welcome home

700
00:26:27,009 --> 00:26:31,389
thank you for taking the time out today

701
00:26:28,419 --> 00:26:48,129
in hot stinking Sydney Australia from

702
00:26:31,388 --> 00:26:52,298
security ah summer in Australia the sand

703
00:26:48,128 --> 00:26:55,028
the sea the surf the heat the skepticism

704
00:26:52,298 --> 00:26:57,099
yes the great ocean road skeptics from

705
00:26:55,028 --> 00:26:58,929
the far south coast of Australia are

706
00:26:57,099 --> 00:27:01,298
bringing back the Surf Coast summer

707
00:26:58,929 --> 00:27:04,600
skeptic amp for the fourth year in a row

708
00:27:01,298 --> 00:27:06,759
this year this is a grassroots skeptical

709
00:27:04,599 --> 00:27:08,740
event in a small community hall in

710
00:27:06,759 --> 00:27:11,019
aireys inlet one of the most gorgeous

711
00:27:08,740 --> 00:27:13,740
seaside villages on the great ocean road

712
00:27:11,019 --> 00:27:16,179
so even got a lighthouse on everything

713

00:27:13,740 --> 00:27:18,250
this is a free event and lunch is

714
00:27:16,179 --> 00:27:19,870
provided it's an easy day trip for

715
00:27:18,250 --> 00:27:21,909
Melbourne or you can make the most of

716
00:27:19,869 --> 00:27:23,768
the beautiful location and spend the

717
00:27:21,909 --> 00:27:26,620
whole weekend soaking up the natural

718
00:27:23,769 --> 00:27:28,419
beauty and world famous beaches you can

719
00:27:26,619 --> 00:27:30,428
join us for a relaxing dinner with other

720
00:27:28,419 --> 00:27:33,759
skeptics at the local pub when the

721
00:27:30,429 --> 00:27:36,250
skeptic camp is done details can be

722
00:27:33,759 --> 00:27:38,740
found on our Eventbrite booking page or

723
00:27:36,250 --> 00:27:41,500
you can find out listing on skeptic

724
00:27:38,740 --> 00:27:42,849
groups of Victoria Facebook page if you

725
00:27:41,500 --> 00:27:44,259
have a talk you'd like to give or any

726
00:27:42,849 --> 00:27:46,658
other questions just use the contact

727
00:27:44,259 --> 00:27:48,370

organizer button on the booking page to

728

00:27:46,659 --> 00:27:50,860

send an email and we'll be back in touch

729

00:27:48,369 --> 00:27:53,949

with you in previous years we've had

730

00:27:50,859 --> 00:27:56,109

group discussions videos and talks on

731

00:27:53,950 --> 00:27:59,590

topics ranging from alternative medicine

732

00:27:56,109 --> 00:28:02,048

to local UFO mysteries so why not wander

733

00:27:59,589 --> 00:28:05,168

over to our Eventbrite booking page at

734

00:28:02,048 --> 00:28:07,269

Surf Coast summer skeptic amp for and

735

00:28:05,169 --> 00:28:08,620

let us know you're coming we look

736

00:28:07,269 --> 00:28:10,269

forward to welcoming you on the

737

00:28:08,619 --> 00:28:12,599

twenty-eighth of february in aires

738

00:28:10,269 --> 00:28:12,599

inlet

739

00:28:16,670 --> 00:28:21,330

be reasonable is a podcast in the

740

00:28:19,079 --> 00:28:23,519

merseyside skeptics society hosted by

741

00:28:21,329 --> 00:28:25,319

Michael Marshall in each monthly

742
00:28:23,519 --> 00:28:27,420
interview we'll examine belief from

743
00:28:25,319 --> 00:28:29,009
outside of the mainstream exploring how

744
00:28:27,420 --> 00:28:30,779
those views are constructed and what

745
00:28:29,009 --> 00:28:33,900
evidence people feel supports their case

746
00:28:30,779 --> 00:28:36,480
in the latest episode I speak with dr.

747
00:28:33,900 --> 00:28:39,090
Leo rebello a homeopath an author who

748
00:28:36,480 --> 00:28:40,890
argues that HIV doesn't exist and that

749
00:28:39,089 --> 00:28:44,189
aids should be treated with homeopathy

750
00:28:40,890 --> 00:28:48,960
and yoga so when I say we treat AIDS

751
00:28:44,190 --> 00:28:53,490
patient it is a combination of diet yoga

752
00:28:48,960 --> 00:28:57,750
homeopathy herbs psychological medicine

753
00:28:53,490 --> 00:28:59,930
dance therapy counseling all that goes

754
00:28:57,750 --> 00:29:02,430
into it we don't stop at giving

755
00:28:59,930 --> 00:29:05,610
antiretroviral antiretroviral and entity

756
00:29:02,430 --> 00:29:07,740
provider which are known carcinogen hey

757
00:29:05,609 --> 00:29:09,809
what leo has to say as well as icing to

758
00:29:07,740 --> 00:29:12,930
back issues the show by visiting

759
00:29:09,809 --> 00:29:15,149
merseyside skeptics to org UK forward

760
00:29:12,930 --> 00:29:21,810
slash podcasts or searching be

761
00:29:15,150 --> 00:29:24,000
reasonable on iTunes the skeptic zone is

762
00:29:21,809 --> 00:29:28,500
brought to you by dr. Bob's trivia quiz

763
00:29:24,000 --> 00:29:32,960
visit dr. Bob's quiz wordpress.com and

764
00:29:28,500 --> 00:29:32,960
see if you can match wits with dr. Bob

765
00:29:32,990 --> 00:29:37,950
welcome to a week in science from RI oz

766
00:29:35,849 --> 00:29:41,399
bringing you the science he needs to

767
00:29:37,950 --> 00:29:43,620
know 2014 was a massive year for science

768
00:29:41,400 --> 00:29:45,780
so let's look back at the year's top 5

769
00:29:43,619 --> 00:29:53,009
science stories with a little help from

770

00:29:45,779 --> 00:29:55,079
our friends at the oz smc at number 5 we

771
00:29:53,009 --> 00:29:57,990
had a sneak peek into the origins of

772
00:29:55,079 --> 00:30:02,129
vertebrate sex and they probably did it

773
00:29:57,990 --> 00:30:04,230
sideways 385 million year old fossilized

774
00:30:02,130 --> 00:30:06,450
fish called auntie arcs were found to

775
00:30:04,230 --> 00:30:08,490
copulate in what could best be described

776
00:30:06,450 --> 00:30:11,370
as a bizarre square dance like

777
00:30:08,490 --> 00:30:13,650
displaying the male had bony claspers

778
00:30:11,369 --> 00:30:16,109
that transferred sperm which clamped

779
00:30:13,650 --> 00:30:19,259
onto small paired bones on the female

780
00:30:16,109 --> 00:30:22,009
which helped dock the male organ in a

781
00:30:19,259 --> 00:30:25,529
sideways position

782
00:30:22,009 --> 00:30:29,069
the largest dinosaur ever discovered is

783
00:30:25,529 --> 00:30:32,460
our number four story for 2014 the

784
00:30:29,069 --> 00:30:35,369

fossils of a titanosaur sauropod or long

785

00:30:32,460 --> 00:30:38,100

neck dinosaur were found in argentina by

786

00:30:35,369 --> 00:30:40,500

a farmer the ultra mega dinosaur lived

787

00:30:38,099 --> 00:30:42,719

100 million years ago its head could

788

00:30:40,500 --> 00:30:44,789

have been lifted to around 20 meters

789

00:30:42,720 --> 00:30:47,190

above the ground and the whole beast

790

00:30:44,789 --> 00:30:51,899

would have been 40 metres long clocking

791

00:30:47,190 --> 00:30:57,539

in at 77 tons as much as 14 African

792

00:30:51,900 --> 00:30:59,610

elephants 2014 may go down as the year

793

00:30:57,539 --> 00:31:02,430

in which major countries started taking

794

00:30:59,609 --> 00:31:04,589

climate change seriously in October and

795

00:31:02,430 --> 00:31:07,620

EU agreement aimed to cut carbon

796

00:31:04,589 --> 00:31:11,879

emissions by forty percent of 1990s

797

00:31:07,619 --> 00:31:14,309

levels by the year 2030 and in November

798

00:31:11,880 --> 00:31:16,950

both the US and China the world's two

799
00:31:14,309 --> 00:31:18,779
largest carbon emitters agreed to take

800
00:31:16,950 --> 00:31:21,440
action on controlling their carbon

801
00:31:18,779 --> 00:31:25,349
outputs with the u.s. pledging to cut

802
00:31:21,440 --> 00:31:30,390
2005 carbon emission levels by 26 to 28

803
00:31:25,349 --> 00:31:32,129
percent within the next 10 years at

804
00:31:30,390 --> 00:31:35,220
number 2 is the landing of the fill a

805
00:31:32,130 --> 00:31:37,890
probe on a speeding comet this 10 year

806
00:31:35,220 --> 00:31:40,500
long project involved a half billion

807
00:31:37,890 --> 00:31:43,470
kilometer race to have the probe and a

808
00:31:40,500 --> 00:31:45,599
comet meet in the vastness of space the

809
00:31:43,470 --> 00:31:48,120
probe successfully landed on the comet

810
00:31:45,599 --> 00:31:52,199
and detected organic molecules before

811
00:31:48,119 --> 00:31:55,619
its batteries died and the number one

812
00:31:52,200 --> 00:31:58,680
science story for 2014 is the Ebola

813
00:31:55,619 --> 00:32:02,369
outbreak in West Africa the outbreak has

814
00:31:58,680 --> 00:32:05,580
infected over 17,000 people of whom over

815
00:32:02,369 --> 00:32:07,349
6,000 have died the Ebola virus causes

816
00:32:05,579 --> 00:32:09,710
impaired kidney and liver function

817
00:32:07,349 --> 00:32:12,299
diarrhea and dehydration and

818
00:32:09,710 --> 00:32:14,220
uncontrollable bleeding the United

819
00:32:12,299 --> 00:32:16,529
Nations countries around the world and

820
00:32:14,220 --> 00:32:18,569
non-government organizations are still

821
00:32:16,529 --> 00:32:21,539
working to contain the outbreak and

822
00:32:18,569 --> 00:32:24,899
treat the infected that's our top side

823
00:32:21,539 --> 00:32:28,430
stories for 2014 I'm poor Willis and

824
00:32:24,900 --> 00:32:28,430
we'll catch you here next week

825
00:32:31,669 --> 00:32:36,720
hi this is column Rhine from Cork

826
00:32:34,679 --> 00:32:39,480
skeptics in the Republic of Ireland here

827

00:32:36,720 --> 00:32:41,730
our next event skeptics in the castle

828
00:32:39,480 --> 00:32:43,679
features Michael Marshall recounting his

829
00:32:41,730 --> 00:32:46,409
ongoing adventures in the world of

830
00:32:43,679 --> 00:32:48,600
pseudoscience Michael needs no

831
00:32:46,409 --> 00:32:50,999
introduction to skeptics he is the

832
00:32:48,599 --> 00:32:53,189
organizer of the QED conference in the

833
00:32:50,999 --> 00:32:55,259
UK as well as the vice president of the

834
00:32:53,190 --> 00:32:56,788
Merseyside skeptics society and the

835
00:32:55,259 --> 00:32:59,159
project director of the good thinking

836
00:32:56,788 --> 00:33:01,470
Society irregularly speaks with

837
00:32:59,159 --> 00:33:04,080
proponents of pseudoscience for the be

838
00:33:01,470 --> 00:33:07,288
reasonable podcast as well as co-hosting

839
00:33:04,079 --> 00:33:10,048
the skeptics with a que podcast his talk

840
00:33:07,288 --> 00:33:12,628
begins at eight pm on Thursday the fifth

841
00:33:10,048 --> 00:33:15,720

of februari the venue is Black Rock

842

00:33:12,628 --> 00:33:17,908

castle Observatory near Cork City it's

843

00:33:15,720 --> 00:33:23,579

free to attend and all are welcome we

844

00:33:17,909 --> 00:33:29,809

look forward to seeing you there here's

845

00:33:23,579 --> 00:33:29,808

my not spooky action at a distance

846

00:33:33,200 --> 00:33:37,909

as you know the venue is the chatswood

847

00:33:35,690 --> 00:33:39,470

club Richard but um I didn't expect the

848

00:33:37,909 --> 00:33:41,059

line to be this far out the door well

849

00:33:39,470 --> 00:33:43,308

we're walking and walking and walking

850

00:33:41,058 --> 00:33:44,690

and walking and there are still people

851

00:33:43,308 --> 00:33:47,028

queued up to get inside this quite

852

00:33:44,690 --> 00:33:48,769

extraordinary man here actually um hello

853

00:33:47,028 --> 00:33:50,839

I can see you at the very end of the

854

00:33:48,769 --> 00:33:53,538

line here how's it going good what's

855

00:33:50,839 --> 00:33:55,189

your name red and dark catering and

856
00:33:53,538 --> 00:33:58,308
you're here for the whole conference or

857
00:33:55,190 --> 00:34:00,470
just for tonight's show oh yeah I'm

858
00:33:58,308 --> 00:34:01,849
former okay so obviously have you been

859
00:34:00,470 --> 00:34:03,440
skeptics for long watch your skeptical

860
00:34:01,849 --> 00:34:05,798
history others Richard Saunders by the

861
00:34:03,440 --> 00:34:08,329
way he's my day he's my he's my dad oh

862
00:34:05,798 --> 00:34:12,588
just listen start listening to the S to

863
00:34:08,329 --> 00:34:15,470
you about two years ago and yeah so

864
00:34:12,588 --> 00:34:17,148
we're mainly here to see them okay did

865
00:34:15,469 --> 00:34:20,598
you write any questions down for them

866
00:34:17,148 --> 00:34:22,429
and send them on to George no no I let

867
00:34:20,599 --> 00:34:24,349
everyone else do that okay and what's

868
00:34:22,429 --> 00:34:25,579
your specialist area of skepticism is

869
00:34:24,349 --> 00:34:28,480
there something that really annoys you

870
00:34:25,579 --> 00:34:30,619
that you think I'm glad I'm a skeptic I

871
00:34:28,480 --> 00:34:33,619
health issues probably because you know

872
00:34:30,619 --> 00:34:34,760
having a young daughter going to just

873
00:34:33,619 --> 00:34:36,500
making sure we're getting all the right

874
00:34:34,760 --> 00:34:38,929
information around that sort of thing so

875
00:34:36,500 --> 00:34:42,730
yeah have you ran into any anti vex

876
00:34:38,929 --> 00:34:46,730
parents not yeah well I happen not

877
00:34:42,730 --> 00:34:48,858
really but when the reluctant Max's yes

878
00:34:46,730 --> 00:34:50,898
what about the other one that seems to

879
00:34:48,858 --> 00:34:52,578
be quite right it's those amber teething

880
00:34:50,898 --> 00:34:54,440
rings if you have you met anyone who's

881
00:34:52,579 --> 00:34:55,909
really into them because I don't think

882
00:34:54,440 --> 00:34:59,210
there's any science to back that up I'm

883
00:34:55,909 --> 00:35:01,490
a bit does that and also the takes what

884

00:34:59,210 --> 00:35:04,519
she taking pill form oh there plus

885
00:35:01,489 --> 00:35:05,750
center oh really and what's that

886
00:35:04,519 --> 00:35:07,940
supposed to just make you generally

887
00:35:05,750 --> 00:35:10,550
healthier is it makes you happier mix

888
00:35:07,940 --> 00:35:13,400
you're less likely to put the postnatal

889
00:35:10,550 --> 00:35:14,660
depression okay oh yeah all right for

890
00:35:13,400 --> 00:35:16,068
the eve of the amber teething ring so

891
00:35:14,659 --> 00:35:17,598
that whole thing seems and particularly

892
00:35:16,068 --> 00:35:22,789
since I usually made out of plastic too

893
00:35:17,599 --> 00:35:24,318
yeah yeah it's a bit on actually we've

894
00:35:22,789 --> 00:35:26,210
found that the skeptic zone listener

895
00:35:24,318 --> 00:35:27,920
women we knew they were there somewhere

896
00:35:26,210 --> 00:35:29,119
what's your name it's me I'm Catherine

897
00:35:27,920 --> 00:35:31,460
hi Catherine how long you been to

898
00:35:29,119 --> 00:35:33,500

skeptics only stuff ah quite a while

899

00:35:31,460 --> 00:35:36,338

back Ishod remember vaguely watching a

900

00:35:33,500 --> 00:35:38,289

video one right back at the start

901

00:35:36,338 --> 00:35:40,119

yeah I'm not sure I stayed with it that

902

00:35:38,289 --> 00:35:41,680

whole time but I kind of came back the

903

00:35:40,119 --> 00:35:43,450

quite a while yet and we went to the

904

00:35:41,679 --> 00:35:45,489

ride cemetery and we did a bit of a

905

00:35:43,449 --> 00:35:48,009

ghost too were there how did you find

906

00:35:45,489 --> 00:35:49,690

that that was really interesting i was

907

00:35:48,009 --> 00:35:51,248

thinking about whether i would go or not

908

00:35:49,690 --> 00:35:53,259

and even though I'm yeah I'm pretty

909

00:35:51,248 --> 00:35:55,298

skeptical bad all these things there's

910

00:35:53,259 --> 00:35:57,759

still something about it and I don't

911

00:35:55,298 --> 00:35:59,829

like gotta forget the poopy enemy in

912

00:35:57,759 --> 00:36:01,449

fact listening back to it when that girl

913
00:35:59,829 --> 00:36:03,339
just said that there was a six-year-old

914
00:36:01,449 --> 00:36:04,659
kid next to her holding her hand I had

915
00:36:03,338 --> 00:36:05,920
to stop listening to my own story I

916
00:36:04,659 --> 00:36:07,778
couldn't even listen to it I think he

917
00:36:05,920 --> 00:36:09,489
walked away at that fine I did I made an

918
00:36:07,778 --> 00:36:10,690
excuse about having to go poo and fall

919
00:36:09,489 --> 00:36:11,920
down or something like that I just made

920
00:36:10,690 --> 00:36:14,259
any excuse and got out here because

921
00:36:11,920 --> 00:36:17,108
because it really rattled me yeah yeah

922
00:36:14,259 --> 00:36:18,849
would be I mean it's all just this weird

923
00:36:17,108 --> 00:36:20,498
well there's three options she's either

924
00:36:18,849 --> 00:36:23,318
experiencing something of the paranormal

925
00:36:20,498 --> 00:36:25,209
which I couldn't witness and was a

926
00:36:23,318 --> 00:36:26,679
pretty awesome thing she was either

927
00:36:25,210 --> 00:36:28,420
making it up or she was suffering the

928
00:36:26,679 --> 00:36:30,460
delusion all through it none of those

929
00:36:28,420 --> 00:36:32,798
three things am I prepared for what

930
00:36:30,460 --> 00:36:35,380
might be all three well yeah oh yes oh

931
00:36:32,798 --> 00:36:36,639
yeah but it was pretty serious stuff to

932
00:36:35,380 --> 00:36:38,559
be there in the middle of the night

933
00:36:36,639 --> 00:36:40,808
wasn't it Richard it was indeed but I'm

934
00:36:38,559 --> 00:36:42,069
glad we do oh yeah I don't know if I'll

935
00:36:40,809 --> 00:36:43,539
do it again in a hurry and I wouldn't

936
00:36:42,068 --> 00:36:44,889
play the Ouija board Richard played the

937
00:36:43,539 --> 00:36:47,979
Ouija board and I wouldn't talk to him

938
00:36:44,889 --> 00:36:50,048
did it no no in silent yeah I do that

939
00:36:47,978 --> 00:36:51,998
thing as a kid where you at it like at a

940
00:36:50,048 --> 00:36:53,889
slumber party we put two fingers out of

941

00:36:51,998 --> 00:36:55,988
the people under someone to try and lift

942
00:36:53,889 --> 00:36:57,219
them up and did it work I should not

943
00:36:55,989 --> 00:36:58,778
remember but I'm assuming it did in

944
00:36:57,219 --> 00:37:00,700
otherwise I would have remembered okay

945
00:36:58,778 --> 00:37:03,039
because I I have heard of people doing

946
00:37:00,699 --> 00:37:04,689
that and it working what pains how many

947
00:37:03,039 --> 00:37:05,710
people you have I suppose yeah that's

948
00:37:04,690 --> 00:37:06,789
true and what are you looking forward to

949
00:37:05,710 --> 00:37:08,510
this weekend as part of the big

950
00:37:06,789 --> 00:37:11,000
skeptical weekend

951
00:37:08,510 --> 00:37:14,360
a bit of a break from the family left

952
00:37:11,000 --> 00:37:15,739
the kids at home and just everything

953
00:37:14,360 --> 00:37:18,079
just meeting meeting all the people that

954
00:37:15,739 --> 00:37:19,819
I listen to you so much I've got a whole

955
00:37:18,079 --> 00:37:21,349

list of questions for people and I've

956

00:37:19,820 --> 00:37:23,390

broken it bat down by who I'm going to

957

00:37:21,349 --> 00:37:24,980

ask well they're all in here and you

958

00:37:23,389 --> 00:37:26,119

better sign in so the line doesn't get

959

00:37:24,980 --> 00:37:27,590

any longer and if you've got any

960

00:37:26,119 --> 00:37:31,460

questions for me please come and ask me

961

00:37:27,590 --> 00:37:33,410

will do pretty good yeah it's going to

962

00:37:31,460 --> 00:37:35,449

have a chat about what's going on look

963

00:37:33,409 --> 00:37:36,619

it's a relatively quiet oasis of

964

00:37:35,449 --> 00:37:39,230

skepticism over here in the corner

965

00:37:36,619 --> 00:37:41,599

who've we got I got Terry Kelly the vice

966

00:37:39,230 --> 00:37:42,980

president of the Victorian skeptic now

967

00:37:41,599 --> 00:37:44,029

you'd be having a big relaxed one with

968

00:37:42,980 --> 00:37:46,429

your feet up because you've got nothing

969

00:37:44,030 --> 00:37:47,810

to do with this none of the or now

970
00:37:46,429 --> 00:37:49,460
organizing this side but we're getting

971
00:37:47,809 --> 00:37:50,719
bit nervous because we might have to do

972
00:37:49,460 --> 00:37:53,240
it again in a couple years you never

973
00:37:50,719 --> 00:37:55,369
know what was the thing that sort of was

974
00:37:53,239 --> 00:37:56,869
a difficult at the last minute for a

975
00:37:55,369 --> 00:37:58,159
conference like this just everyone who

976
00:37:56,869 --> 00:37:59,659
has one there's always something weird

977
00:37:58,159 --> 00:38:02,089
think it happens at the last minute and

978
00:37:59,659 --> 00:38:04,250
you got to run around like a nut yeah we

979
00:38:02,090 --> 00:38:06,599
had problems with accommodation for some

980
00:38:04,250 --> 00:38:09,599
of the guest speakers

981
00:38:06,599 --> 00:38:12,239
for once we didn't actually go to the

982
00:38:09,599 --> 00:38:15,509
hotels and two or three of our star

983
00:38:12,239 --> 00:38:16,769
performers were accommodated in

984
00:38:15,509 --> 00:38:18,778
accommodation didn't have air

985
00:38:16,768 --> 00:38:19,798
conditioning and it was hot right so

986
00:38:18,778 --> 00:38:22,759
that was that happened right in the

987
00:38:19,798 --> 00:38:24,568
middle of the convention that yeah look

988
00:38:22,759 --> 00:38:26,219
registration was a problem for us

989
00:38:24,568 --> 00:38:28,558
because we did the registration on the

990
00:38:26,219 --> 00:38:30,328
Friday night so getting people in the

991
00:38:28,559 --> 00:38:32,249
door well there's a problem here tonight

992
00:38:30,329 --> 00:38:33,989
but it's not a skeptical problem as the

993
00:38:32,248 --> 00:38:35,669
club's the problem it there's only two

994
00:38:33,989 --> 00:38:37,409
books people can time to get in we're

995
00:38:35,670 --> 00:38:39,180
just saying we were just talking that

996
00:38:37,409 --> 00:38:41,909
this is it's really fabulous at the so

997
00:38:39,179 --> 00:38:44,159
many people it's a little bit sad that

998

00:38:41,909 --> 00:38:45,748
it's so I'd to get a drink we're the

999
00:38:44,159 --> 00:38:48,538
clinkers two people here a lot of

1000
00:38:45,748 --> 00:38:50,488
thirsty people yeah but it's fabulous it

1001
00:38:48,539 --> 00:38:52,470
like there are people catching up with

1002
00:38:50,489 --> 00:38:54,329
old friends yes and there are people

1003
00:38:52,469 --> 00:38:56,639
meeting new people and I suppose the

1004
00:38:54,329 --> 00:38:58,710
more drinks they have the more new

1005
00:38:56,639 --> 00:39:01,078
people they'll meet which is why it's a

1006
00:38:58,710 --> 00:39:02,880
shame it's so hard to get a drink that's

1007
00:39:01,079 --> 00:39:04,440
pretty true and one of my favorite

1008
00:39:02,880 --> 00:39:06,329
teachers from the Victorian system here

1009
00:39:04,440 --> 00:39:07,588
how are you sir thanks man oh good how

1010
00:39:06,329 --> 00:39:08,999
are you pretty good could you let us

1011
00:39:07,588 --> 00:39:11,068
know who you are again and which school

1012
00:39:08,998 --> 00:39:12,389

e right now same school I'm Adam

1013

00:39:11,068 --> 00:39:13,739

valeting every week still a McKinnon

1014

00:39:12,389 --> 00:39:15,298

Secondary College in me over that's

1015

00:39:13,739 --> 00:39:17,130

right and how's your skeptical group

1016

00:39:15,298 --> 00:39:19,650

they're going skeptical groves going

1017

00:39:17,130 --> 00:39:21,088

really well passing through a lot of

1018

00:39:19,650 --> 00:39:22,829

different students coming in you know a

1019

00:39:21,088 --> 00:39:24,210

lot of new faces turning up at the start

1020

00:39:22,829 --> 00:39:25,798

of every year which is really nice to

1021

00:39:24,210 --> 00:39:27,028

see and what sort of subjects that

1022

00:39:25,798 --> 00:39:28,108

they've got interested in lately is

1023

00:39:27,028 --> 00:39:29,159

there something they've been interested

1024

00:39:28,108 --> 00:39:31,409

in it's different from the regular

1025

00:39:29,159 --> 00:39:32,699

movement and we've been spending a bit

1026

00:39:31,409 --> 00:39:34,228

of time lately actually talking about

1027
00:39:32,699 --> 00:39:37,498
the differences between science and

1028
00:39:34,228 --> 00:39:39,210
pseudoscience which I I found just is a

1029
00:39:37,498 --> 00:39:40,679
very short little image on the internet

1030
00:39:39,210 --> 00:39:42,960
that had a few key points and I thought

1031
00:39:40,679 --> 00:39:44,909
I okay this will entertain the kids for

1032
00:39:42,960 --> 00:39:46,559
about an hour at lunchtime and two

1033
00:39:44,909 --> 00:39:48,358
months later we are still talking about

1034
00:39:46,559 --> 00:39:49,980
that exact same thing

1035
00:39:48,358 --> 00:39:52,469
and what is the simple definition that

1036
00:39:49,980 --> 00:39:54,420
you gave them I don't think I had a

1037
00:39:52,469 --> 00:39:56,518
simple definition for it was more of a

1038
00:39:54,420 --> 00:39:57,960
if it does these things it's probably

1039
00:39:56,518 --> 00:40:01,078
pseudoscience if it does these things

1040
00:39:57,960 --> 00:40:02,818
it's probably science and have many of

1041
00:40:01,079 --> 00:40:04,109
these students gone on to be in the

1042
00:40:02,818 --> 00:40:07,199
young skeptics group of Melbourne and

1043
00:40:04,108 --> 00:40:09,358
that sort of thing I think so yeah a few

1044
00:40:07,199 --> 00:40:10,980
of the students are sort of in the more

1045
00:40:09,358 --> 00:40:12,538
senior years of life I know there are a

1046
00:40:10,980 --> 00:40:15,568
couple definitely you have gone to join

1047
00:40:12,539 --> 00:40:18,359
on a Melbourne Uni and join I think this

1048
00:40:15,568 --> 00:40:21,420
I forgot the name rational it's a

1049
00:40:18,358 --> 00:40:23,489
rational society okay so if you my kids

1050
00:40:21,420 --> 00:40:25,200
have gone on to do that and on to bigger

1051
00:40:23,489 --> 00:40:27,809
and better things which is always nice

1052
00:40:25,199 --> 00:40:29,098
to see leave me in the dust and lots of

1053
00:40:27,809 --> 00:40:30,539
thing that's still excites you about it

1054
00:40:29,099 --> 00:40:32,190
aside and being a teacher it's a lot of

1055

00:40:30,539 --> 00:40:34,200
the same same how do you make it fresh

1056
00:40:32,190 --> 00:40:35,849
this off all the time having a really

1057
00:40:34,199 --> 00:40:37,588
faulty memory so every time I do

1058
00:40:35,849 --> 00:40:40,079
everything it feels new to me goldfish

1059
00:40:37,588 --> 00:40:41,308
memory yeah exactly right but I'm used

1060
00:40:40,079 --> 00:40:42,359
to that as a maths teacher every

1061
00:40:41,309 --> 00:40:43,440
classroom you know the kids have

1062
00:40:42,358 --> 00:40:45,778
forgotten what I told him the day before

1063
00:40:43,440 --> 00:40:47,670
so I could probably just do the exact

1064
00:40:45,778 --> 00:40:48,989
same talk every single fortnight and the

1065
00:40:47,670 --> 00:40:50,309
kids to get the same amount out of it

1066
00:40:48,989 --> 00:40:51,989
what are you looking forward to this

1067
00:40:50,309 --> 00:40:53,099
week Adam is there one speaker or one

1068
00:40:51,989 --> 00:40:55,588
topic you really want to get your teeth

1069
00:40:53,099 --> 00:40:57,900

into I'm looking forward to having a

1070

00:40:55,588 --> 00:40:59,308

weekend off I'm just being able to put

1071

00:40:57,900 --> 00:41:00,930

my feet up and not have to worry about

1072

00:40:59,309 --> 00:41:02,220

anything for a while to be honest but

1073

00:41:00,929 --> 00:41:04,230

now there are a lot of things I'm

1074

00:41:02,219 --> 00:41:07,379

looking forward to hearing a dick smith

1075

00:41:04,230 --> 00:41:10,030

speak seeing the skeptics guide

1076

00:41:07,380 --> 00:41:11,890

presentations there in the individual

1077

00:41:10,030 --> 00:41:14,260

one doctor novellas at the end of it I

1078

00:41:11,889 --> 00:41:16,329

think I'm speaking just before Stephen

1079

00:41:14,260 --> 00:41:18,190

novella so I don't know if that's going

1080

00:41:16,329 --> 00:41:19,900

to make it easy for him or worse being a

1081

00:41:18,190 --> 00:41:22,030

lot of people looking forward to hearing

1082

00:41:19,900 --> 00:41:24,130

adam van langenberg speak well there you

1083

00:41:22,030 --> 00:41:27,640

go yeah yeah thank you at least at least

1084
00:41:24,130 --> 00:41:29,108
one Terry thanks buster students on a

1085
00:41:27,639 --> 00:41:30,819
bowler did you look at the the

1086
00:41:29,108 --> 00:41:33,039
skepticism an angle to a bolo and that

1087
00:41:30,820 --> 00:41:35,080
was going around yeah we talked about it

1088
00:41:33,039 --> 00:41:36,820
just a little bit more about the you

1089
00:41:35,079 --> 00:41:38,348
know the representation of it the media

1090
00:41:36,820 --> 00:41:39,730
and the difference between just

1091
00:41:38,349 --> 00:41:41,680
believing everything you see on the TV

1092
00:41:39,730 --> 00:41:45,429
and how can you go and do some actual

1093
00:41:41,679 --> 00:41:46,690
research into it yourself look you have

1094
00:41:45,429 --> 00:41:48,639
a good time and I hope your speech goes

1095
00:41:46,690 --> 00:41:50,470
well yeah thanks very much for you think

1096
00:41:48,639 --> 00:41:51,429
standing ovation that's our look if

1097
00:41:50,469 --> 00:41:54,309
there's anything less I'll be

1098
00:41:51,429 --> 00:41:55,480
disappointed I think he's someone I

1099
00:41:54,309 --> 00:41:58,299
haven't seen for a while who've we got

1100
00:41:55,480 --> 00:42:00,159
here very well lives my name and what

1101
00:41:58,300 --> 00:42:03,099
are you up to today Barry how many of

1102
00:42:00,159 --> 00:42:05,019
these have you been to now well I'm here

1103
00:42:03,099 --> 00:42:06,400
as a volunteer I was running the

1104
00:42:05,019 --> 00:42:08,829
skeptics for a number of years and I

1105
00:42:06,400 --> 00:42:11,500
attended 27 of these on the trot and I

1106
00:42:08,829 --> 00:42:13,598
retired about five years ago and decided

1107
00:42:11,500 --> 00:42:14,949
just to drop in occasionally but they

1108
00:42:13,599 --> 00:42:17,410
they needed somebody to give a bit of a

1109
00:42:14,949 --> 00:42:19,239
hand and I live locally so I'm giving

1110
00:42:17,409 --> 00:42:21,098
help yeah I hadn't seen you around for a

1111
00:42:19,239 --> 00:42:23,139
little while Barry and last time I spoke

1112

00:42:21,099 --> 00:42:25,480
to you talked about your early history

1113
00:42:23,139 --> 00:42:27,460
with the skeptics movement and how you

1114
00:42:25,480 --> 00:42:29,829
thought that sometimes the interest in

1115
00:42:27,460 --> 00:42:32,019
paranormal divided upon gender lines

1116
00:42:29,829 --> 00:42:33,579
sometimes like guys tend to go for UFOs

1117
00:42:32,019 --> 00:42:36,639
while women tend to go for the more

1118
00:42:33,579 --> 00:42:39,848
spiritual that was my observation over

1119
00:42:36,639 --> 00:42:42,909
the years yeah and I guess that's that's

1120
00:42:39,849 --> 00:42:45,190
similar in real life to the sort of more

1121
00:42:42,909 --> 00:42:47,710
technical things men tend to be more

1122
00:42:45,190 --> 00:42:51,309
interesting women tend to be Morrison in

1123
00:42:47,710 --> 00:42:53,650
the in the emotional things I suppose

1124
00:42:51,309 --> 00:42:55,389
now i'll probably get castigated for

1125
00:42:53,650 --> 00:42:56,710
that but you know i don't mean that in a

1126
00:42:55,389 --> 00:42:59,858

negative way it's just the way people

1127

00:42:56,710 --> 00:43:01,690

are now is there some new wow that's

1128

00:42:59,858 --> 00:43:03,279

come around that you haven't seen before

1129

00:43:01,690 --> 00:43:05,880

because you've just about seen at all is

1130

00:43:03,280 --> 00:43:08,080

there something new you've seen

1131

00:43:05,880 --> 00:43:09,460

late-night look whoever said there's

1132

00:43:08,079 --> 00:43:11,130

nothing new Under the Sun I think i

1133

00:43:09,460 --> 00:43:14,740

mighta been Shakespeare was quite right

1134

00:43:11,130 --> 00:43:17,829

but having been the Bible but yeah look

1135

00:43:14,739 --> 00:43:19,689

they all they come and go and maybe they

1136

00:43:17,829 --> 00:43:23,108

slightly different guises some of these

1137

00:43:19,690 --> 00:43:26,200

things come in with the by and large the

1138

00:43:23,108 --> 00:43:27,519

same old fundamental beliefs keep coming

1139

00:43:26,199 --> 00:43:29,049

back they get knocked on the head for a

1140

00:43:27,519 --> 00:43:33,099

wild and like I'm back again you can

1141
00:43:29,050 --> 00:43:34,780
guarantee it I expect possibly spoon

1142
00:43:33,099 --> 00:43:37,150
bending might be due for a come back any

1143
00:43:34,780 --> 00:43:38,800
time do you think it all gets back to

1144
00:43:37,150 --> 00:43:40,389
people wanting something for nothing

1145
00:43:38,800 --> 00:43:41,680
they want to lose weight without doing

1146
00:43:40,389 --> 00:43:43,059
anything they want to be smart or

1147
00:43:41,679 --> 00:43:45,098
without going and doing any more

1148
00:43:43,059 --> 00:43:46,960
learning that sort of thing no question

1149
00:43:45,099 --> 00:43:48,789
about that yeah sure I mean they yeah

1150
00:43:46,960 --> 00:43:51,220
it's a quite understandable thing I mean

1151
00:43:48,789 --> 00:43:54,259
I think as a species we're a fairly all

1152
00:43:51,219 --> 00:43:56,209
we'd like to be idle and

1153
00:43:54,260 --> 00:43:58,430
those of us are fortunate enough to live

1154
00:43:56,210 --> 00:43:59,990
in societies like ours get a lot more

1155
00:43:58,429 --> 00:44:01,789
idleness than perhaps if we were living

1156
00:43:59,989 --> 00:44:03,769
in Africa or somewhere like that where

1157
00:44:01,789 --> 00:44:07,369
you have to actually work pretty hard to

1158
00:44:03,769 --> 00:44:08,929
stay alive so and we get a custom lip

1159
00:44:07,369 --> 00:44:11,420
and then we would start wanting more and

1160
00:44:08,929 --> 00:44:12,889
more things for nothing so you've been

1161
00:44:11,420 --> 00:44:19,490
well and truly retired for a while now

1162
00:44:12,889 --> 00:44:21,109
how do you fill up your days wow I I do

1163
00:44:19,489 --> 00:44:23,000
a lot of reading catching up with the

1164
00:44:21,110 --> 00:44:24,470
reading I just didn't have time to there

1165
00:44:23,000 --> 00:44:26,000
before I got a lot of skeptical books

1166
00:44:24,469 --> 00:44:28,879
I'm reading and I'm ready a lot more

1167
00:44:26,000 --> 00:44:32,300
fiction these days they used to and I've

1168
00:44:28,880 --> 00:44:34,400
got a couple of grand sons one of whom

1169

00:44:32,300 --> 00:44:36,170
is just about just stopped doing a PhD

1170
00:44:34,400 --> 00:44:38,990
and one of them was just parts it past

1171
00:44:36,170 --> 00:44:40,909
these HSC so they're not little kids but

1172
00:44:38,989 --> 00:44:42,649
I still take as much looking after from

1173
00:44:40,909 --> 00:44:44,559
our grandfather like driving them he had

1174
00:44:42,650 --> 00:44:47,000
driving them but that doesn't change

1175
00:44:44,559 --> 00:44:48,739
what's your advice to them when it comes

1176
00:44:47,000 --> 00:44:51,199
to thinking critically that what's the

1177
00:44:48,739 --> 00:44:52,879
first step you should take well I always

1178
00:44:51,199 --> 00:44:56,059
tell them never believe anything you

1179
00:44:52,880 --> 00:44:58,579
hear without a reason I'm if somebody

1180
00:44:56,059 --> 00:44:59,869
and make sure the reason isn't that you

1181
00:44:58,579 --> 00:45:01,670
actually want to believe it make sure

1182
00:44:59,869 --> 00:45:04,639
there's some good reason for believing

1183
00:45:01,670 --> 00:45:05,930

what claims we don't wake and and I

1184

00:45:04,639 --> 00:45:09,409

think that stands people in good stead

1185

00:45:05,929 --> 00:45:11,719

anywhere these boys are pretty smart

1186

00:45:09,409 --> 00:45:16,159

pretty level-headed but like all young

1187

00:45:11,719 --> 00:45:17,719

men they fall for the zeitgeist of the

1188

00:45:16,159 --> 00:45:19,009

age if you like it I tend to believe in

1189

00:45:17,719 --> 00:45:20,689

some ratbag things that I wouldn't

1190

00:45:19,010 --> 00:45:22,340

believe in but then with their age I

1191

00:45:20,690 --> 00:45:25,400

used to believe another threat bag thing

1192

00:45:22,340 --> 00:45:27,410

so that's why it goes thanks Barry enjoy

1193

00:45:25,400 --> 00:45:29,570

your this would be your 28th convention

1194

00:45:27,409 --> 00:45:31,699

you'd been to then live yeah I think so

1195

00:45:29,570 --> 00:45:33,590

I i really haven't kept careful it was a

1196

00:45:31,699 --> 00:45:35,719

round about that yeah yeah i think this

1197

00:45:33,590 --> 00:45:37,730

is about the 30th and i've been to all

1198
00:45:35,719 --> 00:45:40,730
except the cup also will you go nuts

1199
00:45:37,730 --> 00:45:43,579
here today Barry I will I will do thank

1200
00:45:40,730 --> 00:45:45,019
you very much I'm here with a fan of the

1201
00:45:43,579 --> 00:45:46,789
Skip exam what's your name sir Enrique

1202
00:45:45,019 --> 00:45:50,030
and how long you been listening to the

1203
00:45:46,789 --> 00:45:51,860
skeptical zone for 8 to 10 years it's hard

1204
00:45:50,030 --> 00:45:53,990
to tell anymore but it quite a while and

1205
00:45:51,860 --> 00:45:55,099
then what now what is it about a thick

1206
00:45:53,989 --> 00:45:56,869
you're kind of like I guess it's an

1207
00:45:55,099 --> 00:45:58,639
Australian show for start but it's

1208
00:45:56,869 --> 00:46:00,219
Australian it helps me keep up to date

1209
00:45:58,639 --> 00:46:02,139
with what's going on as

1210
00:46:00,219 --> 00:46:06,309
a nicely concentrated resource for

1211
00:46:02,139 --> 00:46:08,409
Australian skeptical things and overall

1212
00:46:06,309 --> 00:46:10,630
just very interesting the format that

1213
00:46:08,409 --> 00:46:12,848
Richards man should put together overall

1214
00:46:10,630 --> 00:46:14,260
I've just had a great time listening to

1215
00:46:12,849 --> 00:46:16,809
it yeah what do you think of us going to

1216
00:46:14,260 --> 00:46:18,700
the cemetery the other day I will admit

1217
00:46:16,809 --> 00:46:20,858
I'm a bit behind because I've been

1218
00:46:18,699 --> 00:46:22,269
hooked on a new thing that I'm catching

1219
00:46:20,858 --> 00:46:23,858
up with but then I will catch up I

1220
00:46:22,269 --> 00:46:25,090
promise oh that's okay because the thing

1221
00:46:23,858 --> 00:46:27,340
is they sit there forever so you can

1222
00:46:25,090 --> 00:46:28,630
take your time yes that is one of the

1223
00:46:27,340 --> 00:46:30,190
brilliant things about are you a

1224
00:46:28,630 --> 00:46:32,079
commuter that likes to listen on the way

1225
00:46:30,190 --> 00:46:34,539
to work you're in the shower kind of guy

1226

00:46:32,079 --> 00:46:37,539
before you go to bed when doing the

1227
00:46:34,539 --> 00:46:39,639
dishes mainly and when I'm driving the

1228
00:46:37,539 --> 00:46:42,550
kids aren't in the car okay and head of

1229
00:46:39,639 --> 00:46:43,929
the kids feel about it daddy daddy I

1230
00:46:42,550 --> 00:46:47,200
don't like this story turn it off and

1231
00:46:43,929 --> 00:46:50,049
the case you can turn it off on your

1232
00:46:47,199 --> 00:46:51,579
older yeah I try but then they just get

1233
00:46:50,050 --> 00:46:53,740
louder and start playing louder games

1234
00:46:51,579 --> 00:46:56,079
and there's no point so I give up I they

1235
00:46:53,739 --> 00:46:57,309
win oh and what's your favorite kind of

1236
00:46:56,079 --> 00:46:59,019
what do you hate the most what are the

1237
00:46:57,309 --> 00:47:01,358
one we go that damn woo and you shake

1238
00:46:59,019 --> 00:47:05,619
your fist acupuncture because my boss

1239
00:47:01,358 --> 00:47:07,420
has a an acupuncture clinic and I have

1240
00:47:05,619 --> 00:47:09,460

to deal with it at work including her at

1241

00:47:07,420 --> 00:47:10,780

one point say coming up to me with a

1242

00:47:09,460 --> 00:47:12,760

couple of acupuncture needles when I had

1243

00:47:10,780 --> 00:47:14,890

a particularly stuffy nose my reaction

1244

00:47:12,760 --> 00:47:18,310

she thought I was scared of the needles

1245

00:47:14,889 --> 00:47:20,739

mine it was more of just don't want to

1246

00:47:18,309 --> 00:47:23,849

have to deal with this yes it was a very

1247

00:47:20,739 --> 00:47:26,858

uncomfortable and difficult situation

1248

00:47:23,849 --> 00:47:30,480

because she'll say but it's proven and

1249

00:47:26,858 --> 00:47:32,799

you'll go but it's not avoid the subject

1250

00:47:30,480 --> 00:47:36,250

she's one of the two directors of the

1251

00:47:32,800 --> 00:47:37,960

company okay yes well so no yeah bit of

1252

00:47:36,250 --> 00:47:40,358

tact there i can understand thank you

1253

00:47:37,960 --> 00:47:42,490

very much so i love who I work I just

1254

00:47:40,358 --> 00:47:43,900

don't like that one aspect of it it

1255
00:47:42,489 --> 00:47:45,250
makes it very difficult we'll enjoy the

1256
00:47:43,900 --> 00:47:47,619
rest of the conference saying thank you

1257
00:47:45,250 --> 00:47:49,389
very much look I'm here with mr. Marsh

1258
00:47:47,619 --> 00:47:51,220
and he was losing fans at a rate of

1259
00:47:49,389 --> 00:47:53,108
knots last night now mr. Marsh you were

1260
00:47:51,219 --> 00:47:54,699
having a big skeptical discussion about

1261
00:47:53,108 --> 00:47:56,440
television that could have gone horribly

1262
00:47:54,699 --> 00:47:58,059
wrong for your entire career last night

1263
00:47:56,440 --> 00:48:00,369
in chatswood that's true i made some

1264
00:47:58,059 --> 00:48:02,108
appalling nerd four pars because i was

1265
00:48:00,369 --> 00:48:04,570
pointing out that i think game of

1266
00:48:02,108 --> 00:48:07,630
thrones is appalling leaning and has no

1267
00:48:04,570 --> 00:48:09,820
characters and the plot does not really

1268
00:48:07,630 --> 00:48:11,440
sir progress so much is kind of plugged

1269
00:48:09,820 --> 00:48:12,250
on and he has no idea where he's going

1270
00:48:11,440 --> 00:48:14,170
and they

1271
00:48:12,250 --> 00:48:16,179
I usually refer to that shows no pants

1272
00:48:14,170 --> 00:48:17,470
monarchs yeah if it was called that I

1273
00:48:16,179 --> 00:48:18,699
could go with it cuz at least its kind

1274
00:48:17,469 --> 00:48:19,929
of putting out there exactly what's all

1275
00:48:18,699 --> 00:48:21,939
about but don't pretend that there's

1276
00:48:19,929 --> 00:48:23,049
this kind of well thought out story arc

1277
00:48:21,940 --> 00:48:24,190
that's coming you've no idea where it's

1278
00:48:23,050 --> 00:48:26,080
gone me this one of milk it and then I

1279
00:48:24,190 --> 00:48:27,610
pointed out that the people who compared

1280
00:48:26,079 --> 00:48:29,440
Breaking Bad to being some Shakespearean

1281
00:48:27,610 --> 00:48:31,059
tragedy is just offensive it is a

1282
00:48:29,440 --> 00:48:33,070
terrible terrible show with

1283

00:48:31,059 --> 00:48:34,840
one-dimensional characters you don't

1284
00:48:33,070 --> 00:48:36,160
have any and I think I lost pretty much

1285
00:48:34,840 --> 00:48:38,079
everyone who's ever listened to any show

1286
00:48:36,159 --> 00:48:40,000
I've ever done around that table then

1287
00:48:38,079 --> 00:48:41,409
cut you any slack and just nod or at

1288
00:48:40,000 --> 00:48:42,610
least would they go straight few throat

1289
00:48:41,409 --> 00:48:43,659
I would say it's not the slack that I

1290
00:48:42,610 --> 00:48:44,890
was worried about them cutting it was

1291
00:48:43,659 --> 00:48:46,149
definitely the throw it that's where I

1292
00:48:44,889 --> 00:48:47,859
was worried about the cutting taking

1293
00:48:46,150 --> 00:48:49,960
place so what were you holding up some

1294
00:48:47,860 --> 00:48:51,579
show like the doctors or emmerdale one

1295
00:48:49,960 --> 00:48:53,320
they are the great products of the UK

1296
00:48:51,579 --> 00:48:54,909
output you know I don't think anybody

1297
00:48:53,320 --> 00:48:56,320

who is listening to this wherever this

1298

00:48:54,909 --> 00:48:58,449

girls will have heard of em adil and

1299

00:48:56,320 --> 00:48:59,830

that is frankly a good thing because

1300

00:48:58,449 --> 00:49:01,449

emma was one of the most appalling

1301

00:48:59,829 --> 00:49:02,949

things we've ever committed one opposed

1302

00:49:01,449 --> 00:49:05,019

most appalling act we've ever committed

1303

00:49:02,949 --> 00:49:06,699

in Britain and we were colonial powers

1304

00:49:05,019 --> 00:49:07,869

you know I'm adele is definitely the top

1305

00:49:06,699 --> 00:49:09,639

of the most appalling things we've ever

1306

00:49:07,869 --> 00:49:11,259

done no hang on wasn't a show that was

1307

00:49:09,639 --> 00:49:12,639

worse than that called Silverado or

1308

00:49:11,260 --> 00:49:14,830

something that was made out of Scotland

1309

00:49:12,639 --> 00:49:16,779

or something in the 90s hello Terrell

1310

00:49:14,829 --> 00:49:18,489

eldorado that's all that's made out why

1311

00:49:16,780 --> 00:49:21,610

do you know this is ourselves in the UK

1312
00:49:18,489 --> 00:49:24,159
in the 90s on a tube and someone said

1313
00:49:21,610 --> 00:49:26,740
Scotland gave that the England

1314
00:49:24,159 --> 00:49:28,149
television with John Logie Baird us like

1315
00:49:26,739 --> 00:49:30,429
that and all the England's given us as

1316
00:49:28,150 --> 00:49:32,019
El Dorado right okay so I used as a

1317
00:49:30,429 --> 00:49:33,219
punch line back then and it's stuck in

1318
00:49:32,019 --> 00:49:35,650
my head as being perhaps the worst

1319
00:49:33,219 --> 00:49:36,730
television show everyone English TV it's

1320
00:49:35,650 --> 00:49:38,110
got to be pretty much up there but I

1321
00:49:36,730 --> 00:49:40,269
love the fact that you still use it as a

1322
00:49:38,110 --> 00:49:41,950
punch line 20 years later when nobody

1323
00:49:40,269 --> 00:49:43,300
recognized it at the time so not only is

1324
00:49:41,949 --> 00:49:45,159
this an obscure reference it's a

1325
00:49:43,300 --> 00:49:48,370
massively dated obscure reference well

1326
00:49:45,159 --> 00:49:50,440
there you go well you know okay well

1327
00:49:48,369 --> 00:49:52,480
okay what would you use a part from Emma

1328
00:49:50,440 --> 00:49:54,130
dial is one that's maybe it's got that

1329
00:49:52,480 --> 00:49:55,929
they tried it was really bad never

1330
00:49:54,130 --> 00:49:57,970
unrecognized as it as a recent failure

1331
00:49:55,929 --> 00:49:59,500
on English TV I've got a recent fear you

1332
00:49:57,969 --> 00:50:01,359
know I think most of us so much of

1333
00:49:59,500 --> 00:50:02,289
English teles it is a massive failure

1334
00:50:01,360 --> 00:50:04,200
this is the problem I don't think we're

1335
00:50:02,289 --> 00:50:06,369
not we're not trying to do anything

1336
00:50:04,199 --> 00:50:07,929
interesting not trying to tell stories

1337
00:50:06,369 --> 00:50:09,250
we're just trying to solve pump stuff

1338
00:50:07,929 --> 00:50:11,049
out so unless you're watching something

1339
00:50:09,250 --> 00:50:12,820
on bbc4 which tends to do reasonably

1340

00:50:11,050 --> 00:50:15,010
well anything out on the main stream

1341
00:50:12,820 --> 00:50:16,990
channels is pretty dire all the decent

1342
00:50:15,010 --> 00:50:18,250
Ellie is coming from America I'll still

1343
00:50:16,989 --> 00:50:20,289
hold my hands after that you know things

1344
00:50:18,250 --> 00:50:22,059
like you've got your your house of cards

1345
00:50:20,289 --> 00:50:23,170
your Boardwalk Empire Sopranos are still

1346
00:50:22,059 --> 00:50:24,460
peerless I

1347
00:50:23,170 --> 00:50:26,500
I think I only ever watch American

1348
00:50:24,460 --> 00:50:28,329
television the answer the secret shame

1349
00:50:26,500 --> 00:50:29,829
is that you didn't tell them last night

1350
00:50:28,329 --> 00:50:32,140
you never got around to telling them

1351
00:50:29,829 --> 00:50:33,880
that you don't care for doctor who will

1352
00:50:32,139 --> 00:50:36,519
that much don't see it let's don't

1353
00:50:33,880 --> 00:50:37,809
out loud when I can I've lost so many

1354
00:50:36,519 --> 00:50:39,880

fans but I don't wanna be like lynched

1355

00:50:37,809 --> 00:50:41,530

on the way out yes I don't like Doctor

1356

00:50:39,880 --> 00:50:43,568

Who yes I've never seen episode don't

1357

00:50:41,530 --> 00:50:45,160

tell anyone that's just embarrassing so

1358

00:50:43,568 --> 00:50:47,588

you also not not a fan of the work of

1359

00:50:45,159 --> 00:50:49,210

Shatner yeah I've got I've got a

1360

00:50:47,588 --> 00:50:52,000

grudging admiration for Shatner based on

1361

00:50:49,210 --> 00:50:53,829

his cover of common people which is for

1362

00:50:52,000 --> 00:50:56,409

me that is the absolute Heights that

1363

00:50:53,829 --> 00:50:59,579

anyone has ever achieved in any type of

1364

00:50:56,409 --> 00:50:59,578

work ever created

1365

00:51:10,570 --> 00:51:15,650

my name is Carrie papi hi I'm Steve

1366

00:51:13,550 --> 00:51:19,250

Cogan this is Richard Saunders fight

1367

00:51:15,650 --> 00:51:21,079

George Rob here I'm Jay novella I can

1368

00:51:19,250 --> 00:51:23,329

tell you what I hate about QED would I

1369
00:51:21,079 --> 00:51:26,299
really hate is that it comes to an end

1370
00:51:23,329 --> 00:51:28,909
each year QED for me it's just a

1371
00:51:26,300 --> 00:51:32,030
wonderful opportunity to hear lots of

1372
00:51:28,909 --> 00:51:33,829
speakers hearing the crunch of 350

1373
00:51:32,030 --> 00:51:36,140
people purposely and simultaneously

1374
00:51:33,829 --> 00:51:38,779
overdosing on homeopathic pills for the

1375
00:51:36,139 --> 00:51:46,150
10 23 event was a sound I will never

1376
00:51:38,780 --> 00:51:48,920
forget it's simply one of the better

1377
00:51:46,150 --> 00:51:51,500
skeptical conventions anywhere in the

1378
00:51:48,920 --> 00:51:55,400
world and you're you're asking me what I

1379
00:51:51,500 --> 00:51:57,349
think a QED I haven't been the QED and

1380
00:51:55,400 --> 00:51:59,329
also because it's such a personable

1381
00:51:57,349 --> 00:52:00,829
event to actually meet quite a few of

1382
00:51:59,329 --> 00:52:04,099
these people for the first time because

1383
00:52:00,829 --> 00:52:06,199
you will meet many many fun and

1384
00:52:04,099 --> 00:52:09,130
interesting people you will see great

1385
00:52:06,199 --> 00:52:11,960
talks by some of the best thinkers and

1386
00:52:09,130 --> 00:52:13,610
you'll also meet people who have a drive

1387
00:52:11,960 --> 00:52:16,280
and a passion for making the world

1388
00:52:13,610 --> 00:52:19,849
better by protecting people and not

1389
00:52:16,280 --> 00:52:21,350
being dicks about it you know right down

1390
00:52:19,849 --> 00:52:24,619
to people who I maybe wouldn't have

1391
00:52:21,349 --> 00:52:26,960
heard of without QED calm I would be an

1392
00:52:24,619 --> 00:52:30,469
epic guest because I could speak in a

1393
00:52:26,960 --> 00:52:32,659
flawless British accent hello everyone

1394
00:52:30,469 --> 00:52:36,049
like that and everyone would be like who

1395
00:52:32,659 --> 00:52:40,579
is this English guy are you invading me

1396
00:52:36,050 --> 00:52:43,640
he'd love to go QED 2015 April the 24th

1397

00:52:40,579 --> 00:52:45,529
the 26th in Manchester England 12 main

1398
00:52:43,639 --> 00:52:48,710
stage speakers eight panels three

1399
00:52:45,530 --> 00:52:52,100
comedians and 500 friends and the

1400
00:52:48,710 --> 00:52:53,599
massive party tickets on 99 pounds or 69

1401
00:52:52,099 --> 00:52:58,579
pounds for students for the weekend

1402
00:52:53,599 --> 00:53:02,889
including saturday night www QED korg to

1403
00:52:58,579 --> 00:53:02,889
get your ticket hurry it's in april

1404
00:53:12,849 --> 00:53:20,109
I give a listening to the skeptic zoned

1405
00:53:18,190 --> 00:53:23,139
in the next week I hope to visit my old

1406
00:53:20,108 --> 00:53:25,389
friend Eugenie Scott and maybe visit a

1407
00:53:23,139 --> 00:53:27,909
few scientific places around the san

1408
00:53:25,389 --> 00:53:30,728
francisco bay area before jetting off

1409
00:53:27,909 --> 00:53:32,558
home yes a very quick trip this time

1410
00:53:30,728 --> 00:53:35,739
around thank you to those people who

1411
00:53:32,559 --> 00:53:38,979

have just recently subscribed to the

1412

00:53:35,739 --> 00:53:42,970

skeptic zone via paypal at ww skeptics

1413

00:53:38,978 --> 00:53:45,248

on TV your little a weekly contribution

1414

00:53:42,969 --> 00:53:47,169

micropayment they call it means that the

1415

00:53:45,248 --> 00:53:48,909

show continues thank you thank you very

1416

00:53:47,170 --> 00:53:50,739

much and if you enjoy listening to the

1417

00:53:48,909 --> 00:53:53,048

zone and they mean something to you and

1418

00:53:50,739 --> 00:53:54,759

you get something out of it maybe you

1419

00:53:53,048 --> 00:53:57,248

would think that a dollar a week or less

1420

00:53:54,759 --> 00:53:58,809

actually has 99 cents a week is worth it

1421

00:53:57,248 --> 00:54:01,238

for you to keep listening to the show

1422

00:53:58,809 --> 00:54:03,430

it's much appreciated and it means we

1423

00:54:01,239 --> 00:54:06,068

can do skeptical investigations i can

1424

00:54:03,429 --> 00:54:08,879

buy equipment for the reporters and so

1425

00:54:06,068 --> 00:54:11,558

on and it's nice to buy maynard lunch

1426
00:54:08,880 --> 00:54:13,479
anyway for this week this is Richard

1427
00:54:11,559 --> 00:54:20,140
Saunders signing off from the San

1428
00:54:13,478 --> 00:54:23,528
Francisco Bay Area California you've

1429
00:54:20,139 --> 00:54:28,118
been listening to the skeptic zone visit

1430
00:54:23,528 --> 00:54:30,608
our website at [www skeptics on TV](http://www.skepticsontv.com) for

1431
00:54:28,119 --> 00:54:33,269
comments contacts and extra video

1432
00:54:30,608 --> 00:54:33,268
reports

1433
00:54:36,150 --> 00:54:38,180
Oh