

**The Skeptic Zone**  
**Show 327 - 25 Jan 2016**



**Ketan Joshi**

1  
00:00:23,169 --> 00:00:09,089  
welcome to the skeptic zone the podcast

2  
00:00:29,749 --> 00:00:25,939  
hello and welcome to the skeptic zone

3  
00:00:32,479 --> 00:00:29,759  
episode number 327 for the 25th of

4  
00:00:35,530 --> 00:00:32,489  
January 2015 Richard Saunders here with

5  
00:00:38,119 --> 00:00:35,540  
you from the Bay Area San Francisco and

6  
00:00:41,840 --> 00:00:38,129  
I think I brought some of the warm

7  
00:00:44,630 --> 00:00:41,850  
weather with me there are blooms on the

8  
00:00:46,819 --> 00:00:44,640  
trees flowers are coming out the days

9  
00:00:50,229 --> 00:00:46,829  
are fine and warm something is wrong

10  
00:00:52,880 --> 00:00:50,239  
folks I expected to be wrapped up in

11  
00:00:55,280 --> 00:00:52,890  
jumpers and coats and scarves and hats

12  
00:00:57,469 --> 00:00:55,290  
and gloves and all sorts of things no

13  
00:01:00,079 --> 00:00:57,479

I'm getting around in um more or less a

14

00:01:02,359 --> 00:01:00,089

t-shirt but at least it's not as mucky

15

00:01:04,399 --> 00:01:02,369

as Sydney but that's enough of the

16

00:01:05,810 --> 00:01:04,409

winter report what's coming up on this

17

00:01:08,210 --> 00:01:05,820

week's show we're going to kick off with

18

00:01:10,429 --> 00:01:08,220

an interview with a really interesting

19

00:01:15,380 --> 00:01:10,439

fellow kidding joshi he's going to be

20

00:01:17,780 --> 00:01:15,390

talking about energy wind farms and wind

21

00:01:23,030 --> 00:01:17,790

farm illness or wind farm disease or

22

00:01:24,770 --> 00:01:23,040

wind farmed apparent negative effects

23

00:01:26,569 --> 00:01:24,780

from wind farms and things like that is

24

00:01:29,090 --> 00:01:26,579

it all in the mind is it all in the air

25

00:01:30,830 --> 00:01:29,100

is it all blowing in the wind find out

26  
00:01:33,260 --> 00:01:30,840  
with our interview coming up at the top

27  
00:01:34,609 --> 00:01:33,270  
of the show following that it's a week

28  
00:01:36,230 --> 00:01:34,619  
in science from our good friends at the

29  
00:01:37,910 --> 00:01:36,240  
Royal Institution of Australia and I

30  
00:01:41,239 --> 00:01:37,920  
think they've got a different backing

31  
00:01:42,649 --> 00:01:41,249  
track this week yes they've moved for

32  
00:01:44,840 --> 00:01:42,659  
the times a different backing tracker

33  
00:01:47,330 --> 00:01:44,850  
different music hmm see we think of that

34  
00:01:49,129 --> 00:01:47,340  
and then the round off the show it's a

35  
00:01:51,080 --> 00:01:49,139  
series of interviews with Maynard

36  
00:01:53,590 --> 00:01:51,090  
chatting to people at the Australian

37  
00:01:56,629 --> 00:01:53,600  
skeptics convention which was held last

38  
00:01:58,429 --> 00:01:56,639

November sort of a grab bag of people

39

00:02:00,709 --> 00:01:58,439

lining up to get into various events

40

00:02:02,389 --> 00:02:00,719

what they think why they're there that

41

00:02:03,980 --> 00:02:02,399

sort of stuff and one of the people

42

00:02:06,889 --> 00:02:03,990

interviewed by Maynard is none other

43

00:02:08,449 --> 00:02:06,899

than Barry Williams Barry Williams known

44

00:02:09,980 --> 00:02:08,459

to Australian skeptics he's one of the

45

00:02:11,720 --> 00:02:09,990

most famous members of Australian

46

00:02:13,100 --> 00:02:11,730

skeptic he was the president for many

47

00:02:15,470 --> 00:02:13,110

years he was there right from the

48

00:02:17,540 --> 00:02:15,480

kickoff he's retired now but he came out

49

00:02:19,790 --> 00:02:17,550

of retirement to join us at the

50

00:02:22,850 --> 00:02:19,800

convention always an interesting man to

51  
00:02:24,500 --> 00:02:22,860  
chat to and also some extra bits from

52  
00:02:26,030 --> 00:02:24,510  
Michael Marshall and lots of other

53  
00:02:28,460 --> 00:02:26,040  
people too including some friends of

54  
00:02:30,070 --> 00:02:28,470  
ours from the Victorian skeptics that's

55  
00:02:33,020 --> 00:02:30,080  
coming up at the end of the show and

56  
00:02:34,550 --> 00:02:33,030  
speaking of may nod if you go to Maynard

57  
00:02:37,490 --> 00:02:34,560  
com got a

58  
00:02:39,920 --> 00:02:37,500  
there are videos and audio clips up

59  
00:02:42,110 --> 00:02:39,930  
there recently the radio station Triple

60  
00:02:44,870 --> 00:02:42,120  
J here in Australia celebrated its 40th

61  
00:02:46,850 --> 00:02:44,880  
birthday and Maynard for those in

62  
00:02:49,970 --> 00:02:46,860  
Australia of course Maynard was a huge

63  
00:02:53,570 --> 00:02:49,980

part of triple j ah so go to Maynard

64

00:02:56,120 --> 00:02:53,580

comdata you and look for the triple j

65

00:02:57,410 --> 00:02:56,130

videos and audio thanks for those people

66

00:03:00,440 --> 00:02:57,420

who wrote in saying how much they

67

00:03:02,270 --> 00:03:00,450

enjoyed our new reporter Heidi Robertson

68

00:03:04,220 --> 00:03:02,280

the raw skeptic her report where she

69

00:03:05,990 --> 00:03:04,230

visited mind body spirit mind muddy

70

00:03:10,970 --> 00:03:06,000

wallet New Age fair whatever you want to

71

00:03:13,250 --> 00:03:10,980

call it and it really that reminds me I

72

00:03:15,199 --> 00:03:13,260

mean I've been going to these things for

73

00:03:17,960 --> 00:03:15,209

years and years and years as a skeptic

74

00:03:20,089 --> 00:03:17,970

zone listeners will know and I guess I

75

00:03:23,000 --> 00:03:20,099

really did need a fresh set of ears and

76  
00:03:25,150 --> 00:03:23,010  
eyes there to remind me something which

77  
00:03:28,759 --> 00:03:25,160  
is very important about these

78  
00:03:31,160 --> 00:03:28,769  
mind-body-spirit fairs is the fact that

79  
00:03:35,740 --> 00:03:31,170  
a lot of people there purporting to be

80  
00:03:39,380 --> 00:03:35,750  
healers or whatever simply don't know

81  
00:03:41,780 --> 00:03:39,390  
what they're talking about they've read

82  
00:03:44,840 --> 00:03:41,790  
junk they've put their own junk on top

83  
00:03:48,949 --> 00:03:44,850  
with junk we're wrapped in woo they

84  
00:03:51,500 --> 00:03:48,959  
think they know they have half an idea

85  
00:03:53,120 --> 00:03:51,510  
fine everybody's entitled to their

86  
00:03:55,789 --> 00:03:53,130  
opinion if they have half an idea of

87  
00:03:58,430 --> 00:03:55,799  
half an idea but I guess the point is

88  
00:04:02,870 --> 00:03:58,440

these people are imparting this

89

00:04:04,550 --> 00:04:02,880

knowledge as if they know how people

90

00:04:06,830 --> 00:04:04,560

should handle their health and give

91

00:04:09,860 --> 00:04:06,840

advice and a lot of times they'll charge

92

00:04:12,470 --> 00:04:09,870

for it its consumer affairs issues with

93

00:04:15,140 --> 00:04:12,480

mind-body wallet festivals their safety

94

00:04:17,120 --> 00:04:15,150

issues ultimately there are people just

95

00:04:21,650 --> 00:04:17,130

peddling nonsense and dangerous nonsense

96

00:04:24,320 --> 00:04:21,660

of that maybe over this year 2015 will

97

00:04:26,029 --> 00:04:24,330

look more into the that aspect of the

98

00:04:27,409 --> 00:04:26,039

mind body while it fares maybe they've

99

00:04:29,810 --> 00:04:27,419

been getting away with it for far too

100

00:04:32,510 --> 00:04:29,820

long we'll see another thing that struck

101  
00:04:34,370 --> 00:04:32,520  
me this week but you're visiting the

102  
00:04:38,810 --> 00:04:34,380  
United States and looking at the TV news

103  
00:04:40,850 --> 00:04:38,820  
are the measles outbreak which seems to

104  
00:04:43,909 --> 00:04:40,860  
have started in Disneyland of all places

105  
00:04:47,899 --> 00:04:43,919  
is making the news and one of the points

106  
00:04:48,710 --> 00:04:47,909  
being made is that once the United

107  
00:04:51,410 --> 00:04:48,720  
States was

108  
00:04:55,790 --> 00:04:51,420  
sidered measles free and i guess the

109  
00:04:59,110 --> 00:04:55,800  
work of the anti-vaxxers over years is

110  
00:05:02,300 --> 00:04:59,120  
really starting to show now with

111  
00:05:03,650 --> 00:05:02,310  
outbreaks of measles people coming in

112  
00:05:05,870 --> 00:05:03,660  
from other countries to the United

113  
00:05:09,110 --> 00:05:05,880

## States who have measles unvaccinated

114

00:05:11,350 --> 00:05:09,120

kids running around it's it's

115

00:05:15,020 --> 00:05:11,360

astounding measles whooping cough

116

00:05:16,610 --> 00:05:15,030

what's next we've been fighting the

117

00:05:18,230 --> 00:05:16,620

anti-vaxxers for many years on the

118

00:05:22,370 --> 00:05:18,240

skeptic zone and the Australian skeptics

119

00:05:24,590 --> 00:05:22,380

as you know I don't want to say that

120

00:05:28,400 --> 00:05:24,600

we're not making any progress because we

121

00:05:33,350 --> 00:05:28,410

really are we really are but the

122

00:05:35,270 --> 00:05:33,360

opposition is mobilized their effective

123

00:05:37,190 --> 00:05:35,280

unfortunately so we just have to keep on

124

00:05:40,880 --> 00:05:37,200

fighting and its people like dr. Reggie

125

00:05:42,940 --> 00:05:40,890

Joe alabaster Heidi Robertson who are

126

00:05:46,310 --> 00:05:42,950

really doing their bit to fight these

127

00:05:48,140 --> 00:05:46,320

these peddlers of disease and some of

128

00:05:51,530 --> 00:05:48,150

them really are peddlers of the disease

129

00:05:53,030 --> 00:05:51,540

they want children to get sick they want

130

00:05:54,080 --> 00:05:53,040

children to have measles and

131

00:05:56,930 --> 00:05:54,090

whooping-cough and all these other

132

00:05:59,090 --> 00:05:56,940

horrible diseases next week we're going

133

00:06:01,670 --> 00:05:59,100

to have an update on the Tenpenny tour

134

00:06:04,190 --> 00:06:01,680

or lack thereof Australia the last thing

135

00:06:06,469 --> 00:06:04,200

I've heard is it looks like the tour has

136

00:06:09,170 --> 00:06:06,479

been canceled due to pressure from the

137

00:06:10,610 --> 00:06:09,180

forces of reason but we'll see what

138

00:06:12,080 --> 00:06:10,620

happens in the coming week and Joe

139

00:06:15,560 --> 00:06:12,090

alabaster should be able to give us a

140

00:06:17,630 --> 00:06:15,570

little update next week well that's the

141

00:06:20,330 --> 00:06:17,640

rant over for now I'm going to run

142

00:06:21,620 --> 00:06:20,340

upstairs grab that lovely root beer and

143

00:06:24,440 --> 00:06:21,630

ice out of the fridge because it's a

144

00:06:49,230 --> 00:06:24,450

warm day well I'm doing that I hope you

145

00:06:54,760 --> 00:06:51,880

and joining me on the line all the way

146

00:06:58,690 --> 00:06:54,770

from Australia well imagine that it's

147

00:07:01,930 --> 00:06:58,700

catan Georgie hello Irish it how is it

148

00:07:05,950 --> 00:07:01,940

over there in Australia it's absurdly

149

00:07:07,750 --> 00:07:05,960

hot I I walked outside and my arms melt

150

00:07:09,850 --> 00:07:07,760

it all and now I have no arms that's

151

00:07:11,440 --> 00:07:09,860

what I can actually do for the benefit

152

00:07:13,630 --> 00:07:11,450

of our listeners we're skypeing at the

153

00:07:17,290 --> 00:07:13,640

moment and you're right you have no arms

154

00:07:19,630 --> 00:07:17,300

I can see now it's ironic because I've

155

00:07:22,830 --> 00:07:19,640

come all the way here to California to

156

00:07:25,720 --> 00:07:22,840

what I assumed would be a lovely crisp

157

00:07:27,760 --> 00:07:25,730

winter only to find that there are

158

00:07:29,290 --> 00:07:27,770

flowers blooming and I'm walking around

159

00:07:31,900 --> 00:07:29,300

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

160

00:07:34,240 --> 00:07:31,910

on I'm glad you could give me some time

161

00:07:35,890 --> 00:07:34,250

today because we're talking about things

162

00:07:39,280 --> 00:07:35,900

warming up we're talking about the

163

00:07:42,580 --> 00:07:39,290

environment one of your great areas of

164

00:07:44,800 --> 00:07:42,590

interest is renewable energy which sort

165

00:07:46,240 --> 00:07:44,810

of ties in rather nicely wind farms this

166

00:07:47,710 --> 00:07:46,250

sort of thing can you tell me a bit

167

00:07:50,440 --> 00:07:47,720

about your background and what you're

168

00:07:53,110 --> 00:07:50,450

doing at the moment yes I did a science

169

00:07:55,420 --> 00:07:53,120

degree and that was actually focusing on

170

00:07:56,860 --> 00:07:55,430

neuro and in psychology and after I

171

00:07:58,420 --> 00:07:56,870

finished I didn't really know what to do

172

00:08:00,610 --> 00:07:58,430

with myself so ended up in the renewable

173

00:08:02,410 --> 00:08:00,620

energy industry doing data analysis and

174

00:08:04,720 --> 00:08:02,420

I did data analysis for about two years

175

00:08:06,430 --> 00:08:04,730

and now I've ended up doing research and

176

00:08:08,620 --> 00:08:06,440

communications for wind energy company

177

00:08:10,630 --> 00:08:08,630

called infant energy but yeah I've been

178

00:08:13,360 --> 00:08:10,640

I've been a science loving skeptic my

179

00:08:15,850 --> 00:08:13,370

whole life and it's really fun to apply

180

00:08:18,520 --> 00:08:15,860

that to the industry in which I work and

181

00:08:20,920 --> 00:08:18,530

was it last year or the year before you

182

00:08:23,950 --> 00:08:20,930

actually gave a really great talk to a

183

00:08:25,660 --> 00:08:23,960

Sydney skeptics dinner meeting about a

184

00:08:28,810 --> 00:08:25,670

topic which I find really interesting

185

00:08:30,700 --> 00:08:28,820

because it will get to this as you

186

00:08:33,220 --> 00:08:30,710

pointed out in your talk this is hardly

187

00:08:35,410 --> 00:08:33,230

a new topic and we're talking about what

188

00:08:37,180 --> 00:08:35,420

is it renewable energy sickness or wind

189

00:08:40,030 --> 00:08:37,190

turbine sickness or what's the

190

00:08:43,240 --> 00:08:40,040

expression the name for that phenomenon

191

00:08:45,330 --> 00:08:43,250

was coined in 2009 by actually an

192

00:08:46,950 --> 00:08:45,340

American pediatrician

193

00:08:49,470 --> 00:08:46,960

and they and she called it wind turbine

194

00:08:51,120 --> 00:08:49,480

syndrome syndrome right but I mean it

195

00:08:53,490 --> 00:08:51,130

gets called different things all the

196

00:08:56,490 --> 00:08:53,500

time like it's just it's kind of just a

197

00:08:58,440 --> 00:08:56,500

catch-all term for a bunch of generic

198

00:09:02,430 --> 00:08:58,450

symptoms experienced by people who are

199

00:09:04,910 --> 00:09:02,440

within 10 to 30 kilometers of any wind

200

00:09:07,410 --> 00:09:04,920

farms of any size anywhere in the world

201  
00:09:10,110 --> 00:09:07,420  
so it's not really is precise definition

202  
00:09:13,470 --> 00:09:10,120  
its prey port and how does this syndrome

203  
00:09:15,660 --> 00:09:13,480  
manifest itself the attribution within

204  
00:09:17,760 --> 00:09:15,670  
the theory within kind of the the

205  
00:09:21,170 --> 00:09:17,770  
construct of the theory is that it comes

206  
00:09:23,100 --> 00:09:21,180  
about due to inaudible noise so so not

207  
00:09:26,820 --> 00:09:23,110  
sounds that you consciously perceive

208  
00:09:29,070 --> 00:09:26,830  
that an invisible inaudible kind of it's

209  
00:09:30,750 --> 00:09:29,080  
everywhere at the same time and it's

210  
00:09:32,940 --> 00:09:30,760  
really low frequency noise so it's below

211  
00:09:35,790 --> 00:09:32,950  
the threshold that our ears can detect

212  
00:09:36,900 --> 00:09:35,800  
and they call it infrasound I mean

213  
00:09:39,030 --> 00:09:36,910

that's the technical name for it and

214

00:09:41,880 --> 00:09:39,040

it's below 20 Hertz which is really

215

00:09:45,150 --> 00:09:41,890

ridiculously low for you to hear that it

216

00:09:47,370 --> 00:09:45,160

has to be really really loud so if you

217

00:09:48,480 --> 00:09:47,380

ever like wound down the car window you

218

00:09:49,860 --> 00:09:48,490

know when you're in a highway to get

219

00:09:51,390 --> 00:09:49,870

that kind of like repetitive thumping

220

00:09:53,520 --> 00:09:51,400

noise that's actually mean in the

221

00:09:56,250 --> 00:09:53,530

infrasonic range but it's just so loud

222

00:09:58,290 --> 00:09:56,260

that you can you can perceive it so when

223

00:10:00,750 --> 00:09:58,300

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

224

00:10:03,920 --> 00:10:00,760

really able to be perceived it is but it

225

00:10:07,350 --> 00:10:03,930

has to be stupidly loud yeah okay so

226

00:10:09,120 --> 00:10:07,360

normally the deadly situations with wind

227

00:10:13,200 --> 00:10:09,130

farms especially you can't hear it I

228

00:10:15,390 --> 00:10:13,210

mean if you're close to a wind turbine

229

00:10:18,750 --> 00:10:15,400

on the wind farms I haven't been what

230

00:10:20,730 --> 00:10:18,760

noise would you expect to hear basically

231

00:10:22,020 --> 00:10:20,740

you're a couple things if the turbulence

232

00:10:23,370 --> 00:10:22,030

shutting down or starting up you can

233

00:10:25,080 --> 00:10:23,380

hear a bit of like mechanical whirring

234

00:10:26,880 --> 00:10:25,090

and stuff like that from inside there

235

00:10:29,430 --> 00:10:26,890

inside the hub when it's just going

236

00:10:30,900 --> 00:10:29,440

normally what you hear is kind of a very

237

00:10:33,300 --> 00:10:30,910

sort of like gentle whooshing noise as

238

00:10:35,070 --> 00:10:33,310

it goes past the tower and that's

239

00:10:38,070 --> 00:10:35,080

actually when the blade goes past the

240

00:10:40,110 --> 00:10:38,080

tower the air compresses rum and it just

241

00:10:41,460 --> 00:10:40,120

kind of makes it like this but you you

242

00:10:42,960 --> 00:10:41,470

can kind of look it up online you know

243

00:10:45,300 --> 00:10:42,970

people there's a lot of people who have

244

00:10:48,690 --> 00:10:45,310

gone to win farms expecting like this

245

00:10:50,550 --> 00:10:48,700

cacophony of insane like painful death

246

00:10:52,080 --> 00:10:50,560

Orchestra coming from coming from the

247

00:10:54,660 --> 00:10:52,090

turbines what you just get is like this

248

00:10:57,210 --> 00:10:54,670

from four minutes it's pretty quiet

249

00:10:57,730 --> 00:10:57,220

basically and once you start heading

250

00:11:01,990 --> 00:10:57,740

away for

251  
00:11:03,610 --> 00:11:02,000  
winter by milvia down the road not a far

252  
00:11:06,160 --> 00:11:03,620  
distance I imagine you simply wouldn't

253  
00:11:08,230 --> 00:11:06,170  
hear anything at all yeah we did this a

254  
00:11:10,260 --> 00:11:08,240  
couple of days ago with some guesser at

255  
00:11:13,150 --> 00:11:10,270  
the wind farm that they wanted to hear

256  
00:11:14,500 --> 00:11:13,160  
the sound of the wind farm from 500

257  
00:11:15,910 --> 00:11:14,510  
meters away the one I mentioned before

258  
00:11:17,500 --> 00:11:15,920  
winter months in drive is meant to be

259  
00:11:20,680 --> 00:11:17,510  
active you know between 10 and 30

260  
00:11:22,420 --> 00:11:20,690  
kilometers which is pretty huge yeah 500

261  
00:11:25,240 --> 00:11:22,430  
meters away we couldn't perceive the

262  
00:11:27,160 --> 00:11:25,250  
noise there was this cow I think it was

263  
00:11:30,040 --> 00:11:27,170

sick or something but it was just going

264

00:11:32,590 --> 00:11:30,050

nuts as well so we're even masking the

265

00:11:34,930 --> 00:11:32,600

noise it's a well-made you have G maybe

266

00:11:36,880 --> 00:11:34,940

the cows got the winter by the signal

267

00:11:38,110 --> 00:11:36,890

but actually that's it you know we can

268

00:11:39,460 --> 00:11:38,120

edit that bit out because we don't want

269

00:11:42,330 --> 00:11:39,470

people to know that the cows are getting

270

00:11:44,890 --> 00:11:42,340

mix interface we better keep that with

271

00:11:46,630 --> 00:11:44,900

we better get better keep that be quite

272

00:11:47,920 --> 00:11:46,640

so basically speaking when you're close

273

00:11:50,020 --> 00:11:47,930

to one of these things you'll hear

274

00:11:51,880 --> 00:11:50,030

something yeah you move away and then

275

00:11:53,830 --> 00:11:51,890

it's simply whatever sound is generated

276  
00:11:55,990 --> 00:11:53,840  
just drops below the human threshold but

277  
00:11:57,490 --> 00:11:56,000  
basically most of the noise that you get

278  
00:11:58,870 --> 00:11:57,500  
for a mechanical noise and that

279  
00:12:00,370 --> 00:11:58,880  
whooshing noise almost always gets

280  
00:12:01,990 --> 00:12:00,380  
drowned out by the wind itself the wind

281  
00:12:03,490 --> 00:12:02,000  
is quite noisy particularly when it

282  
00:12:05,860 --> 00:12:03,500  
collides with something so like a

283  
00:12:08,200 --> 00:12:05,870  
building or a tree and generally people

284  
00:12:10,810 --> 00:12:08,210  
tend to live in buildings or they live

285  
00:12:13,180 --> 00:12:10,820  
near trees so the noise that most people

286  
00:12:15,520 --> 00:12:13,190  
get in your wind farms is from trees and

287  
00:12:17,470 --> 00:12:15,530  
and the atmosphere colliding with your

288  
00:12:19,090 --> 00:12:17,480

house which would you like what you hear

289

00:12:21,820 --> 00:12:19,100

regardless that's why when you're

290

00:12:24,160 --> 00:12:21,830

testing a wind farm you have to have

291

00:12:25,840 --> 00:12:24,170

what's called on-off testing so when

292

00:12:27,520 --> 00:12:25,850

when they're commissioned the government

293

00:12:28,630 --> 00:12:27,530

says basically you have to test the

294

00:12:29,800 --> 00:12:28,640

noise of your wind farm because they

295

00:12:31,930 --> 00:12:29,810

want to make sure that you're in within

296

00:12:33,250 --> 00:12:31,940

regulation it's kind of it's got some

297

00:12:34,840 --> 00:12:33,260

good scientific principles behind it in

298

00:12:36,640 --> 00:12:34,850

that there's a control there's a time

299

00:12:38,980 --> 00:12:36,650

period in which you switch the wind farm

300

00:12:41,380 --> 00:12:38,990

off and you go let's measure that

301  
00:12:42,730 --> 00:12:41,390  
background noise and then you switch the

302  
00:12:44,110 --> 00:12:42,740  
wind farm back on and you go here what's

303  
00:12:45,660 --> 00:12:44,120  
the difference you subtract the two and

304  
00:12:48,280 --> 00:12:45,670  
you and that's how you determine the

305  
00:12:50,200 --> 00:12:48,290  
noise output of the wing farm right I

306  
00:12:52,270 --> 00:12:50,210  
must admit when I first heard about this

307  
00:12:54,460 --> 00:12:52,280  
sort of thing it did strike me as odd

308  
00:12:55,510 --> 00:12:54,470  
because you'd think great wind farms

309  
00:12:58,090 --> 00:12:55,520  
doing something for the environment

310  
00:13:01,030 --> 00:12:58,100  
clean energy all the rest of it there

311  
00:13:02,800 --> 00:13:01,040  
are so many people railing against what

312  
00:13:05,080 --> 00:13:02,810  
we might call more traditional forms of

313  
00:13:06,249 --> 00:13:05,090

energy and probably justly so oil and

314

00:13:08,199 --> 00:13:06,259

coal and all that sort of thing

315

00:13:10,150 --> 00:13:08,209

but they get people Rayleigh against

316

00:13:12,309 --> 00:13:10,160

wind farms most fascinating things I

317

00:13:13,960 --> 00:13:12,319

just I learned from you a year or so

318

00:13:16,059 --> 00:13:13,970

back when you gave a talk was this sort

319

00:13:18,309 --> 00:13:16,069

of resistance to this sort of new

320

00:13:20,409 --> 00:13:18,319

technology goes back quite a kind of way

321

00:13:22,869 --> 00:13:20,419

doesn't it it's it really it goes like a

322

00:13:24,789 --> 00:13:22,879

very long way I was actually professor

323

00:13:26,439 --> 00:13:24,799

Simon Chapman Sydney University brought

324

00:13:28,359 --> 00:13:26,449

this to my attention there's a paper in

325

00:13:30,369 --> 00:13:28,369

the British Medical Journal from the i

326

00:13:32,199 --> 00:13:30,379

think it was actually the 1800s if not

327

00:13:35,949 --> 00:13:32,209

after um actually don't remember when

328

00:13:37,449 --> 00:13:35,959

the telephone I should know that huh but

329

00:13:39,309 --> 00:13:37,459

whatever that was invented there was a

330

00:13:41,799 --> 00:13:39,319

letter there was a full letter in there

331

00:13:44,619 --> 00:13:41,809

in the bmj about the health risks of

332

00:13:47,199 --> 00:13:44,629

landline telephones well and the list of

333

00:13:48,489 --> 00:13:47,209

symptoms is really one of the most

334

00:13:50,949 --> 00:13:48,499

fascinating things I've read because

335

00:13:53,799 --> 00:13:50,959

it's almost identical to many of these

336

00:13:55,569 --> 00:13:53,809

contemporary syndromes yeah but we hear

337

00:13:57,279 --> 00:13:55,579

about that it's a very similar list

338

00:13:59,979 --> 00:13:57,289

every single time it's it's something

339

00:14:02,919 --> 00:13:59,989

it's it's nausea headaches sleeplessness

340

00:14:06,309 --> 00:14:02,929

anxiety kind of like this just feeling

341

00:14:08,109 --> 00:14:06,319

of panic along with this kind of really

342

00:14:09,879 --> 00:14:08,119

visceral fear that you just get in the

343

00:14:11,799 --> 00:14:09,889

pit of your stomach and that translates

344

00:14:13,029 --> 00:14:11,809

into a lot of actual real symptoms you

345

00:14:15,039 --> 00:14:13,039

know you know when you when you're

346

00:14:17,199 --> 00:14:15,049

anxious like that you do tend to get

347

00:14:19,150 --> 00:14:17,209

more sick that's the roles will be well

348

00:14:21,869 --> 00:14:19,160

established kind of outcome of being

349

00:14:24,220 --> 00:14:21,879

worried about that like a prevalence

350

00:14:26,049 --> 00:14:24,230

piece of technology that's new you all

351  
00:14:27,849 --> 00:14:26,059  
the time something new and something

352  
00:14:28,989 --> 00:14:27,859  
you're not used to maybe well that's

353  
00:14:30,340 --> 00:14:28,999  
adventure the telephone that's

354  
00:14:32,710 --> 00:14:30,350  
interesting I didn't know that but let's

355  
00:14:34,749 --> 00:14:32,720  
advance of to not that long ago when

356  
00:14:35,889 --> 00:14:34,759  
cell phone mobile phone towers started

357  
00:14:37,269 --> 00:14:35,899  
popping up and this is a very

358  
00:14:39,400 --> 00:14:37,279  
interesting point that you pointed out

359  
00:14:42,039 --> 00:14:39,410  
as well it has all the same features

360  
00:14:44,079 --> 00:14:42,049  
really um and that's kind of ubiquity

361  
00:14:45,609 --> 00:14:44,089  
it's kind of it's everywhere right and

362  
00:14:47,559 --> 00:14:45,619  
they're really visible so when telegraph

363  
00:14:49,840 --> 00:14:47,569

wires went up they were really visible

364

00:14:51,099 --> 00:14:49,850

to and now we're getting those you seen

365

00:14:53,439 --> 00:14:51,109

their cell phone towers on top of

366

00:14:55,689 --> 00:14:53,449

buildings with the white you know sort

367

00:14:57,279 --> 00:14:55,699

of transmission array they often have to

368

00:14:59,049 --> 00:14:57,289

put them on top of residential buildings

369

00:15:00,819 --> 00:14:59,059

when I was actually researching that

370

00:15:02,710 --> 00:15:00,829

talk I found some interesting articles

371

00:15:04,779 --> 00:15:02,720

about it and I tweeted them just as kind

372

00:15:06,039 --> 00:15:04,789

of like hey check out this interesting

373

00:15:07,869 --> 00:15:06,049

you know isn't it interesting that

374

00:15:10,659 --> 00:15:07,879

people are worried about this and when I

375

00:15:12,519 --> 00:15:10,669

tweeted a bunch of active groups started

376

00:15:14,140 --> 00:15:12,529

responding to me saying thank you for

377

00:15:16,300 --> 00:15:14,150

sharing our story you know we

378

00:15:18,190 --> 00:15:16,310

this is a planned telstra tower on top

379

00:15:19,840 --> 00:15:18,200

of our building we appreciate that

380

00:15:21,160 --> 00:15:19,850

you're you know raising awareness of

381

00:15:25,570 --> 00:15:21,170

that that's like I think you've got the

382

00:15:27,040 --> 00:15:25,580

wrong idea I think I actually did have a

383

00:15:28,990 --> 00:15:27,050

good chat with them because you know

384

00:15:31,090 --> 00:15:29,000

it's interesting to kind of get an idea

385

00:15:33,160 --> 00:15:31,100

of where they're coming from why are

386

00:15:35,290 --> 00:15:33,170

they scared and what kind of drilling

387

00:15:38,020 --> 00:15:35,300

down to what their fears are and much of

388

00:15:39,460 --> 00:15:38,030

that fear comes from having no control

389

00:15:41,140 --> 00:15:39,470

over the development of these things I

390

00:15:42,640 --> 00:15:41,150

reckon if you did a survey with those

391

00:15:43,960 --> 00:15:42,650

people grew worried about landline

392

00:15:46,990 --> 00:15:43,970

telephones you know hundreds of years

393

00:15:48,250 --> 00:15:47,000

ago or 100 years ago you would probably

394

00:15:49,870 --> 00:15:48,260

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

395

00:15:51,070 --> 00:15:49,880

angry and I'm freaked out because I

396

00:15:53,380 --> 00:15:51,080

can't do anything about it and I'm

397

00:15:54,880 --> 00:15:53,390

peevied about that and I'm gonna get work

398

00:15:57,040 --> 00:15:54,890

gives them something if they're not

399

00:15:59,140 --> 00:15:57,050

feeling well or people some people are

400

00:16:01,930 --> 00:15:59,150

prone to I don't know hypochondria I

401  
00:16:03,850 --> 00:16:01,940  
guess it gives them a um a reason when

402  
00:16:04,900 --> 00:16:03,860  
someone is sick and they don't know

403  
00:16:07,600 --> 00:16:04,910  
what's causing it and they go to a

404  
00:16:09,400 --> 00:16:07,610  
doctor in the doctors like uninor we've

405  
00:16:11,020 --> 00:16:09,410  
got no idea and then someone else comes

406  
00:16:12,730 --> 00:16:11,030  
along and says well I know I know what's

407  
00:16:14,800 --> 00:16:12,740  
wrong with you is it's this particular

408  
00:16:17,350 --> 00:16:14,810  
thing that's near you yeah it's quite a

409  
00:16:18,700 --> 00:16:17,360  
relief i can probably like it so there

410  
00:16:22,660 --> 00:16:18,710  
was some news that came out this week

411  
00:16:24,700 --> 00:16:22,670  
which are basically it was like a 490

412  
00:16:26,350 --> 00:16:24,710  
page report and it's a really

413  
00:16:28,270 --> 00:16:26,360

fascinating development with this whole

414

00:16:31,600 --> 00:16:28,280

winged turbine syndrome thing because

415

00:16:33,460 --> 00:16:31,610

it's a study that involved six residents

416

00:16:34,690 --> 00:16:33,470

from three separate households at a wing

417

00:16:36,400 --> 00:16:34,700

phone called the cape bridgewater wind

418

00:16:38,500 --> 00:16:36,410

farm we sort of same stuff like this

419

00:16:40,240 --> 00:16:38,510

before where they'll survey a select

420

00:16:42,100 --> 00:16:40,250

really small number of like

421

00:16:44,140 --> 00:16:42,110

non-representative residents and then

422

00:16:46,630 --> 00:16:44,150

take those results to be representative

423

00:16:48,100 --> 00:16:46,640

of the wider population which as you and

424

00:16:49,750 --> 00:16:48,110

I know that's not a not a particularly

425

00:16:52,810 --> 00:16:49,760

good scientific method right because

426

00:16:54,550 --> 00:16:52,820

it's it says its selection bias but the

427

00:16:55,930 --> 00:16:54,560

unique thing about this study is that it

428

00:16:57,700 --> 00:16:55,940

was actually commissioned by the wind

429

00:16:59,020 --> 00:16:57,710

farm operator and so what they did was

430

00:17:00,690 --> 00:16:59,030

they said to these residents in

431

00:17:03,340 --> 00:17:00,700

complaining for a really long time and

432

00:17:05,680 --> 00:17:03,350

then commissioned acoustic studies from

433

00:17:07,180 --> 00:17:05,690

you know just basically a randomly

434

00:17:08,890 --> 00:17:07,190

chosen acoustic consulting and they

435

00:17:10,329 --> 00:17:08,900

could never find anything right now just

436

00:17:11,800 --> 00:17:10,339

like look that we've studied there's so

437

00:17:13,390 --> 00:17:11,810

many times and there's nothing we can't

438

00:17:15,280 --> 00:17:13,400

find anything different about this wind

439

00:17:17,199 --> 00:17:15,290

farm yet the residents keep complaining

440

00:17:18,820 --> 00:17:17,209

residents you guys choose your

441

00:17:20,320 --> 00:17:18,830

acoustician we're not get it because you

442

00:17:21,550 --> 00:17:20,330

obviously you want it like you're not

443

00:17:23,740 --> 00:17:21,560

happy with our choice to do kiss did

444

00:17:25,840 --> 00:17:23,750

buku station so you guys choose that too

445

00:17:28,179 --> 00:17:25,850

who does the study and

446

00:17:31,720 --> 00:17:28,189

did but the manager the study has

447

00:17:34,120 --> 00:17:31,730

basically done work for anti-wind groups

448

00:17:36,669 --> 00:17:34,130

before oh yeah this study that he did is

449

00:17:38,320 --> 00:17:36,679

in my opinion a pretty poor study but

450

00:17:39,730 --> 00:17:38,330

the most stunning there's two really

451

00:17:41,140 --> 00:17:39,740

important stories here one is that he

452

00:17:43,090 --> 00:17:41,150

did it really didn't do very good

453

00:17:45,070 --> 00:17:43,100

science but the second really important

454

00:17:47,380 --> 00:17:45,080

thing is that a letter was written by

455

00:17:48,850 --> 00:17:47,390

those residents right and they published

456

00:17:50,560 --> 00:17:48,860

it on the website of this group called

457

00:17:53,440 --> 00:17:50,570

corporate foundation now the Water

458

00:17:55,720 --> 00:17:53,450

Foundation are an organization who are

459

00:17:57,220 --> 00:17:55,730

basically dedicated to propagating the

460

00:17:59,020 --> 00:17:57,230

wind turbine syndrome theory to

461

00:18:00,370 --> 00:17:59,030

communities near wind farms right there

462

00:18:02,200 --> 00:18:00,380

often describing the media as an anti

463

00:18:03,970 --> 00:18:02,210

win group and I would pretty much concur

464

00:18:06,100 --> 00:18:03,980

with that in that they focus on

465

00:18:07,870 --> 00:18:06,110

basically regulating we climbed out of

466

00:18:09,580 --> 00:18:07,880

existence right they published this

467

00:18:11,740 --> 00:18:09,590

statement from these residents who were

468

00:18:12,970 --> 00:18:11,750

in this study it's probably the most

469

00:18:16,299 --> 00:18:12,980

interesting part of it because the

470

00:18:19,510 --> 00:18:16,309

residents say we we are relieved we're

471

00:18:21,190 --> 00:18:19,520

happy because this study tells us what

472

00:18:22,720 --> 00:18:21,200

we saw all along the wind farms were

473

00:18:24,039 --> 00:18:22,730

causing our symptoms so I should I

474

00:18:25,870 --> 00:18:24,049

didn't mention what the results of the

475

00:18:28,210 --> 00:18:25,880

study were what he did was he got the

476

00:18:29,169 --> 00:18:28,220

residents to fill in Diaries oh yeah I /

477

00:18:32,320 --> 00:18:29,179

measurements from the wind farm at the

478

00:18:34,240 --> 00:18:32,330

same time measured noise and he measured

479

00:18:37,360 --> 00:18:34,250

something that he invented for the study

480

00:18:39,610 --> 00:18:37,370

called sensation sensation is what we

481

00:18:41,409 --> 00:18:39,620

were just mentioning before with the

482

00:18:43,930 --> 00:18:41,419

symptoms experienced with telephone

483

00:18:45,970 --> 00:18:43,940

lines decades ago and mobile phone tower

484

00:18:48,760 --> 00:18:45,980

as well as those stuff it's nausea its

485

00:18:50,860 --> 00:18:48,770

headaches ankush pneus it's some unease

486

00:18:52,750 --> 00:18:50,870

like you know in your stomach that sort

487

00:18:54,430 --> 00:18:52,760

of thing yeah he heralded it is like you

488

00:18:56,230 --> 00:18:54,440

know this is a new type of acoustic

489

00:18:58,630 --> 00:18:56,240

study it has never been done before and

490

00:19:00,220 --> 00:18:58,640

it has it has been basically he found

491

00:19:02,049 --> 00:19:00,230

that there was no correlation between

492

00:19:04,960 --> 00:19:02,059

noise reports there was no correlation

493

00:19:08,350 --> 00:19:04,970

between low frequency noise and noise

494

00:19:12,100 --> 00:19:08,360

reports but what he did find there was a

495

00:19:15,880 --> 00:19:12,110

slight increase in severity in sensation

496

00:19:19,539 --> 00:19:15,890

reports during periods of higher power

497

00:19:21,039 --> 00:19:19,549

output but not noise output which is I

498

00:19:22,360 --> 00:19:21,049

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

499

00:19:24,730 --> 00:19:22,370

going to have the talk of it basically

500

00:19:26,950 --> 00:19:24,740

my first instinct on reading that was

501  
00:19:28,180 --> 00:19:26,960  
war what do you mean by correlation is

502  
00:19:29,799 --> 00:19:28,190  
that a statistically significant

503  
00:19:32,740 --> 00:19:29,809  
correlation what kind of measures did

504  
00:19:34,899 --> 00:19:32,750  
you use and there's a quote in an

505  
00:19:36,789 --> 00:19:34,909  
article that just came out yesterday or

506  
00:19:38,140 --> 00:19:36,799  
the day before where he just said oh

507  
00:19:39,310 --> 00:19:38,150  
look what I did was

508  
00:19:41,410 --> 00:19:39,320  
look at label to when they were

509  
00:19:43,780 --> 00:19:41,420  
reporting impacts and I just work

510  
00:19:47,530 --> 00:19:43,790  
backwards from there and found noise

511  
00:19:50,950 --> 00:19:47,540  
output to correlated with that it's just

512  
00:19:52,330 --> 00:19:50,960  
like that's not great science lavoie and

513  
00:19:53,770 --> 00:19:52,340

he says that an article right like I'm

514

00:19:55,510 --> 00:19:53,780

not I'm not paraphrasing that you know

515

00:19:56,560 --> 00:19:55,520

this is um this isn't an article in The

516

00:19:58,210 --> 00:19:56,570

Australian that was published on

517

00:20:00,550 --> 00:19:58,220

Thursday by their environmentally

518

00:20:03,100 --> 00:20:00,560

redditor Graeme Lloyd and he also says

519

00:20:04,900 --> 00:20:03,110

well sure they reported sensations when

520

00:20:08,200 --> 00:20:04,910

the wind turbines were off but the wind

521

00:20:10,510 --> 00:20:08,210

turbines were vibrating due to the wind

522

00:20:12,970 --> 00:20:10,520

and that's why they were reporting

523

00:20:15,220 --> 00:20:12,980

sensations in their Diaries during the

524

00:20:16,420 --> 00:20:15,230

shutdown period which again right like

525

00:20:17,800 --> 00:20:16,430

you think about you think about the

526  
00:20:19,540 --> 00:20:17,810  
scientific method there and you think

527  
00:20:22,270 --> 00:20:19,550  
about what a normal scientific study

528  
00:20:25,000 --> 00:20:22,280  
would do they would say well that seems

529  
00:20:26,770 --> 00:20:25,010  
to be a confounder because perhaps all

530  
00:20:28,960 --> 00:20:26,780  
the recitation reports before migrating

531  
00:20:30,190 --> 00:20:28,970  
went to the buttons or suddenly

532  
00:20:32,080 --> 00:20:30,200  
something Elementary in something else

533  
00:20:34,150 --> 00:20:32,090  
we think we're measuring a correlation

534  
00:20:36,880 --> 00:20:34,160  
between wind farm noise and these diary

535  
00:20:40,150 --> 00:20:36,890  
reports but it's actually it's something

536  
00:20:42,160 --> 00:20:40,160  
completely different right so again

537  
00:20:43,780 --> 00:20:42,170  
there's a lot there's a lot wrong with a

538  
00:20:45,490 --> 00:20:43,790

study found that but those are probably

539

00:20:47,320 --> 00:20:45,500

the two key parts but the residents

540

00:20:49,420 --> 00:20:47,330

residents looked at this study and they

541

00:20:51,400 --> 00:20:49,430

were like thank God you know like we've

542

00:20:53,470 --> 00:20:51,410

been told that we're making it up and

543

00:20:55,900 --> 00:20:53,480

with the toll that were liars and you

544

00:20:58,570 --> 00:20:55,910

know finally we get something that that

545

00:21:00,880 --> 00:20:58,580

tells us that our sickness our health

546

00:21:02,770 --> 00:21:00,890

problems are caused by this thing and

547

00:21:05,170 --> 00:21:02,780

with them we're happy what they say in

548

00:21:07,540 --> 00:21:05,180

this letter is like thank you you know

549

00:21:10,390 --> 00:21:07,550

for taking the time for spending like

550

00:21:13,480 --> 00:21:10,400

hours and weeks and days just talking to

551  
00:21:15,370 --> 00:21:13,490  
us right and when I was reading that the

552  
00:21:18,820 --> 00:21:15,380  
thing that immediately sprang to my mind

553  
00:21:20,950 --> 00:21:18,830  
was homeopathy because the thing I I've

554  
00:21:23,530 --> 00:21:20,960  
sort of noticed with homeopathy is

555  
00:21:25,360 --> 00:21:23,540  
people who who undergo and actually a

556  
00:21:28,000 --> 00:21:25,370  
close relative of mine is currently

557  
00:21:29,890 --> 00:21:28,010  
taking homeopathic treatments and I was

558  
00:21:32,500 --> 00:21:29,900  
talking to her about what is it that

559  
00:21:34,450 --> 00:21:32,510  
attracts you to it and she's like it's

560  
00:21:35,710 --> 00:21:34,460  
that they take the time to listen to me

561  
00:21:37,180 --> 00:21:35,720  
and they don't say that I'm that I'm

562  
00:21:38,500 --> 00:21:37,190  
wrong they just they just kind of like

563  
00:21:39,880 --> 00:21:38,510

sit there and they listen and they kind

564

00:21:42,220 --> 00:21:39,890

of tell me that I'm right you know yeah

565

00:21:45,010 --> 00:21:42,230

I'll be that my belief in homeopathy

566

00:21:46,660 --> 00:21:45,020

isn't misplaced they say you've made the

567

00:21:48,100 --> 00:21:46,670

right choice here you're not you aren't

568

00:21:49,670 --> 00:21:48,110

deluded you're not you're not wrong

569

00:21:51,590 --> 00:21:49,680

about this they basically

570

00:21:53,030 --> 00:21:51,600

hang with them right so so this is what

571

00:21:54,860 --> 00:21:53,040

really stands out to me with this recent

572

00:21:57,170 --> 00:21:54,870

study is that what happened is someone

573

00:22:00,110 --> 00:21:57,180

found found a group of people with a

574

00:22:01,820 --> 00:22:00,120

belief and reinforce that belief oh yeah

575

00:22:04,040 --> 00:22:01,830

better than own content that they

576  
00:22:06,950 --> 00:22:04,050  
reinforce that belief with not very good

577  
00:22:08,510 --> 00:22:06,960  
science yeah well I mean but these

578  
00:22:11,120 --> 00:22:08,520  
people really didn't need convincing

579  
00:22:13,040 --> 00:22:11,130  
before we've come across this sort of

580  
00:22:14,690 --> 00:22:13,050  
people it's like homeopathy they don't

581  
00:22:17,360 --> 00:22:14,700  
need convincing they know what's right

582  
00:22:19,130 --> 00:22:17,370  
but when someone confirms what they

583  
00:22:22,060 --> 00:22:19,140  
already knows to be true then they're

584  
00:22:24,800 --> 00:22:22,070  
more set in it we also look at things

585  
00:22:26,390 --> 00:22:24,810  
along the similar lines here we have the

586  
00:22:27,980 --> 00:22:26,400  
telephone the worries with that we've

587  
00:22:31,700 --> 00:22:27,990  
got the wind turbines or cell phones

588  
00:22:33,110 --> 00:22:31,710

that smart meters smart meters to and

589

00:22:35,390 --> 00:22:33,120

you've discovered that this is similar

590

00:22:37,760 --> 00:22:35,400

would now you have a name for this I

591

00:22:40,490 --> 00:22:37,770

called it everything syndrome yeah and

592

00:22:41,870 --> 00:22:40,500

it's actually intend to basically put

593

00:22:43,730 --> 00:22:41,880

all this into a paper or something and

594

00:22:46,490 --> 00:22:43,740

then don't know publish it somewhere if

595

00:22:49,070 --> 00:22:46,500

I can I think smart meters are unique in

596

00:22:51,350 --> 00:22:49,080

that just the raw passion behind it is

597

00:22:52,610 --> 00:22:51,360

is unparalleled Wyoming people are

598

00:22:54,140 --> 00:22:52,620

passionate about the wind turbine

599

00:22:55,370 --> 00:22:54,150

syndrome thing as well and they were

600

00:22:58,700 --> 00:22:55,380

passionate about the cell phone thing

601  
00:23:01,880 --> 00:22:58,710  
too but I don't know why but the smart

602  
00:23:03,950 --> 00:23:01,890  
leader thing just gets people furious in

603  
00:23:05,570 --> 00:23:03,960  
an unmatched way there are some YouTube

604  
00:23:09,260 --> 00:23:05,580  
videos of protests that are held outside

605  
00:23:12,920 --> 00:23:09,270  
on local the offices of parliamentarians

606  
00:23:15,260 --> 00:23:12,930  
in Victoria and the the emotion behind

607  
00:23:18,260 --> 00:23:15,270  
some of these protests is is really

608  
00:23:21,740 --> 00:23:18,270  
really strong and I'm actually a bit

609  
00:23:24,230 --> 00:23:21,750  
baffled as to why it's different for

610  
00:23:25,850 --> 00:23:24,240  
smart meters and I suppose my guess is

611  
00:23:28,130 --> 00:23:25,860  
simply that it's closer to people's

612  
00:23:29,990 --> 00:23:28,140  
homes right like I think that's it yeah

613  
00:23:32,150 --> 00:23:30,000

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

614

00:23:34,820 --> 00:23:32,160

home and they've been told this is

615

00:23:36,410 --> 00:23:34,830

making them sick yeah i can i can

616

00:23:37,970 --> 00:23:36,420

understand some people would get

617

00:23:39,080 --> 00:23:37,980

incredibly passionate about it

618

00:23:41,330 --> 00:23:39,090

especially if they think they're getting

619

00:23:43,370 --> 00:23:41,340

sick or the family's getting sick yeah

620

00:23:45,190 --> 00:23:43,380

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

621

00:23:47,450 --> 00:23:45,200

so so if it's a government-mandated

622

00:23:49,700 --> 00:23:47,460

rollout so if the government says we

623

00:23:50,930 --> 00:23:49,710

want wind turbines across our lands and

624

00:23:52,370 --> 00:23:50,940

there and then the government and you

625

00:23:53,900 --> 00:23:52,380

know they can't have introduced asking

626  
00:23:56,480 --> 00:23:53,910  
to do that then there's going to be more

627  
00:23:57,740 --> 00:23:56,490  
chance of people strangely like does it

628  
00:23:59,240 --> 00:23:57,750  
seem like I could like an intuitive

629  
00:24:01,590 --> 00:23:59,250  
thing that somehow there's a link that

630  
00:24:03,900 --> 00:24:01,600  
where people are more likely to

631  
00:24:05,580 --> 00:24:03,910  
feel ill because you know that they're

632  
00:24:07,620 --> 00:24:05,590  
in tribute to the to the presence of

633  
00:24:09,570 --> 00:24:07,630  
that thing in Victoria the rollout of

634  
00:24:11,549 --> 00:24:09,580  
smart me smart meters was mandatory and

635  
00:24:15,659 --> 00:24:11,559  
in New South Wales is going to be

636  
00:24:18,480 --> 00:24:15,669  
optional and my guess is that you'll get

637  
00:24:21,120 --> 00:24:18,490  
a much lower rate of people complaining

638  
00:24:22,169 --> 00:24:21,130

about smart near syndrome basically in

639

00:24:24,240 --> 00:24:22,179

New South Wales than you will in

640

00:24:25,230 --> 00:24:24,250

Victoria and that's kind of why I one of

641

00:24:26,669 --> 00:24:25,240

you know it like put something together

642

00:24:29,610 --> 00:24:26,679

and get it in writing like this is my

643

00:24:31,890 --> 00:24:29,620

guess you know I bet I won't get the

644

00:24:33,419 --> 00:24:31,900

same type of groups in the Victorian

645

00:24:35,970 --> 00:24:33,429

election there was a group called people

646

00:24:37,440 --> 00:24:35,980

power no smart leaders and they when I

647

00:24:39,570 --> 00:24:37,450

think they I camera now how many votes

648

00:24:40,620 --> 00:24:39,580

they got it wasn't a huge number i don't

649

00:24:42,299 --> 00:24:40,630

think they got a seat in the Senate

650

00:24:44,130 --> 00:24:42,309

they're on their website what they were

651  
00:24:47,669 --> 00:24:44,140  
basically saying as part of their policy

652  
00:24:49,919 --> 00:24:47,679  
is every single human being who lives in

653  
00:24:52,320 --> 00:24:49,929  
a residence in Victoria should have the

654  
00:24:55,350 --> 00:24:52,330  
right to veto any technology within a

655  
00:24:56,730 --> 00:24:55,360  
reasonable distance of their home and

656  
00:24:58,560 --> 00:24:56,740  
that's anything right like that wasn't

657  
00:25:00,690 --> 00:24:58,570  
limited to smile so someone wants to

658  
00:25:03,390 --> 00:25:00,700  
build I don't know a bus stop with an

659  
00:25:05,070 --> 00:25:03,400  
LCD display that would fall under the

660  
00:25:07,320 --> 00:25:05,080  
heading of technology so you could say

661  
00:25:09,000 --> 00:25:07,330  
not yeah but I bet they burglarized

662  
00:25:10,560 --> 00:25:09,010  
themselves by talking on their cell

663  
00:25:12,330 --> 00:25:10,570

phones though is that I think there's a

664

00:25:15,270 --> 00:25:12,340

caveat on their website but like this is

665

00:25:19,230 --> 00:25:15,280

all done through ethernet cables no not

666

00:25:21,450 --> 00:25:19,240

wife but I actually really relish you

667

00:25:22,740 --> 00:25:21,460

know taking the taking time to just read

668

00:25:24,240 --> 00:25:22,750

what they're saying and listen to the

669

00:25:25,980 --> 00:25:24,250

kind of things that they put online the

670

00:25:28,169 --> 00:25:25,990

videos because it gives us a really

671

00:25:30,750 --> 00:25:28,179

really important insight into how people

672

00:25:33,149 --> 00:25:30,760

react technology well the new energy

673

00:25:35,430 --> 00:25:33,159

push it's not an easy road I you know

674

00:25:36,750 --> 00:25:35,440

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

675

00:25:39,299 --> 00:25:36,760

remember seeing bumper stickers that

676

00:25:41,310 --> 00:25:39,309

would say solar energy the way of the

677

00:25:43,680 --> 00:25:41,320

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

678

00:25:45,180 --> 00:25:43,690

waiting for it I know it'll come and I

679

00:25:47,190 --> 00:25:45,190

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

680

00:25:48,450 --> 00:25:47,200

just taking a long time listener qatar

681

00:25:50,549 --> 00:25:48,460

where can people find out more about

682

00:25:53,430 --> 00:25:50,559

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

683

00:25:56,279 --> 00:25:53,440

is just called some air or much-loved

684

00:26:00,120 --> 00:25:56,289

blogspot com value ah I don't know why I

685

00:26:02,760 --> 00:26:00,130

chose a German name is known action they

686

00:26:04,830 --> 00:26:02,770

want to say we had missiles in Germany

687

00:26:06,690 --> 00:26:04,840

it's all right it's possible okay um

688

00:26:10,710 --> 00:26:06,700

it's probably a lot better to just go to

689

00:26:12,810 --> 00:26:10,720

my Twitter feed which is catan j 0 and x

690

00:26:14,850 --> 00:26:12,820

j 0 and or you can just go

691

00:26:16,860 --> 00:26:14,860

my name that's usually better because

692

00:26:18,419 --> 00:26:16,870

Google will tell you everything alright

693

00:26:20,610 --> 00:26:18,429

so those people out there who were

694

00:26:22,649 --> 00:26:20,620

afraid of the user depth and Wi-Fi and

695

00:26:25,139 --> 00:26:22,659

smart meters and wind turbines and

696

00:26:26,999 --> 00:26:25,149

telephones and heaven knows one run to

697

00:26:28,409 --> 00:26:27,009

the blog and have a look welcome home

698

00:26:31,379 --> 00:26:28,419

thank you for taking the time out today

699

00:26:48,119 --> 00:26:31,389

in hot stinking Sydney Australia from

700

00:26:52,289 --> 00:26:48,129

security ah summer in Australia the sand

701  
00:26:55,019 --> 00:26:52,299  
the sea the surf the heat the skepticism

702  
00:26:57,090 --> 00:26:55,029  
yes the great ocean road skeptics from

703  
00:26:58,919 --> 00:26:57,100  
the far south coast of Australia are

704  
00:27:01,289 --> 00:26:58,929  
bringing back the Surf Coast summer

705  
00:27:04,590 --> 00:27:01,299  
skeptic amp for the fourth year in a row

706  
00:27:06,749 --> 00:27:04,600  
this year this is a grassroots skeptical

707  
00:27:08,730 --> 00:27:06,759  
event in a small community hall in

708  
00:27:11,009 --> 00:27:08,740  
aireys inlet one of the most gorgeous

709  
00:27:13,730 --> 00:27:11,019  
seaside villages on the great ocean road

710  
00:27:16,169 --> 00:27:13,740  
so even got a lighthouse on everything

711  
00:27:18,240 --> 00:27:16,179  
this is a free event and lunch is

712  
00:27:19,860 --> 00:27:18,250  
provided it's an easy day trip for

713  
00:27:21,899 --> 00:27:19,870

Melbourne or you can make the most of

714

00:27:23,759 --> 00:27:21,909

the beautiful location and spend the

715

00:27:26,610 --> 00:27:23,769

whole weekend soaking up the natural

716

00:27:28,409 --> 00:27:26,620

beauty and world famous beaches you can

717

00:27:30,419 --> 00:27:28,419

join us for a relaxing dinner with other

718

00:27:33,749 --> 00:27:30,429

skeptics at the local pub when the

719

00:27:36,240 --> 00:27:33,759

skeptic camp is done details can be

720

00:27:38,730 --> 00:27:36,250

found on our Eventbrite booking page or

721

00:27:41,490 --> 00:27:38,740

you can find out listing on skeptic

722

00:27:42,840 --> 00:27:41,500

groups of Victoria Facebook page if you

723

00:27:44,249 --> 00:27:42,850

have a talk you'd like to give or any

724

00:27:46,649 --> 00:27:44,259

other questions just use the contact

725

00:27:48,360 --> 00:27:46,659

organizer button on the booking page to

726

00:27:50,850 --> 00:27:48,370

send an email and we'll be back in touch

727

00:27:53,940 --> 00:27:50,860

with you in previous years we've had

728

00:27:56,100 --> 00:27:53,950

group discussions videos and talks on

729

00:27:59,580 --> 00:27:56,110

topics ranging from alternative medicine

730

00:28:02,039 --> 00:27:59,590

to local UFO mysteries so why not wander

731

00:28:05,159 --> 00:28:02,049

over to our Eventbrite booking page at

732

00:28:07,259 --> 00:28:05,169

Surf Coast summer skeptic amp for and

733

00:28:08,610 --> 00:28:07,269

let us know you're coming we look

734

00:28:10,259 --> 00:28:08,620

forward to welcoming you on the

735

00:28:16,660 --> 00:28:10,269

twenty-eighth of february in aireys

736

00:28:21,320 --> 00:28:19,070

be reasonable is a podcast in the

737

00:28:23,510 --> 00:28:21,330

merseyside skeptics society hosted by

738

00:28:25,310 --> 00:28:23,520

Michael Marshall in each monthly

739

00:28:27,410 --> 00:28:25,320

interview we'll examine belief from

740

00:28:29,000 --> 00:28:27,420

outside of the mainstream exploring how

741

00:28:30,770 --> 00:28:29,010

those views are constructed and what

742

00:28:33,890 --> 00:28:30,780

evidence people feel supports their case

743

00:28:36,470 --> 00:28:33,900

in the latest episode I speak with dr.

744

00:28:39,080 --> 00:28:36,480

Leo rebello a homeopath an author who

745

00:28:40,880 --> 00:28:39,090

argues that HIV doesn't exist and that

746

00:28:44,180 --> 00:28:40,890

aids should be treated with homeopathy

747

00:28:48,950 --> 00:28:44,190

and yoga so when I say we treat AIDS

748

00:28:53,480 --> 00:28:48,960

patient it is a combination of diet yoga

749

00:28:57,740 --> 00:28:53,490

homeopathy herbs psychological medicine

750

00:28:59,920 --> 00:28:57,750

dance therapy counseling all that goes

751

00:29:02,420 --> 00:28:59,930

into it we don't stop at giving

752

00:29:05,600 --> 00:29:02,430

antiretroviral antiretroviral and entity

753

00:29:07,730 --> 00:29:05,610

provider which are known carcinogen hey

754

00:29:09,800 --> 00:29:07,740

what leo has to say as well as icing to

755

00:29:12,920 --> 00:29:09,810

back issues the show by visiting

756

00:29:15,140 --> 00:29:12,930

merseyside skeptics to org UK forward

757

00:29:21,800 --> 00:29:15,150

slash podcasts or searching be

758

00:29:23,990 --> 00:29:21,810

reasonable on iTunes the skeptic zone is

759

00:29:28,490 --> 00:29:24,000

brought to you by dr. Bob's trivia quiz

760

00:29:32,980 --> 00:29:28,500

visit dr. Bob's quiz wordpress.com and

761

00:29:37,940 --> 00:29:35,840

welcome to a week in science from RI oz

762

00:29:41,390 --> 00:29:37,950

bringing you the science he needs to

763

00:29:43,610 --> 00:29:41,400

know 2014 was a massive year for science

764

00:29:45,770 --> 00:29:43,620

so let's look back at the year's top 5

765

00:29:53,000 --> 00:29:45,780

science stories with a little help from

766

00:29:55,070 --> 00:29:53,010

our friends at the oz smc at number 5 we

767

00:29:57,980 --> 00:29:55,080

had a sneak peek into the origins of

768

00:30:02,120 --> 00:29:57,990

vertebrate sex and they probably did it

769

00:30:04,220 --> 00:30:02,130

sideways 385 million year old fossilized

770

00:30:06,440 --> 00:30:04,230

fish called auntie arcs were found to

771

00:30:08,480 --> 00:30:06,450

copulate in what could best be described

772

00:30:11,360 --> 00:30:08,490

as a bizarre square dance like

773

00:30:13,640 --> 00:30:11,370

displaying the male had bony claspers

774

00:30:16,100 --> 00:30:13,650

that transferred sperm which clamped

775

00:30:19,250 --> 00:30:16,110

onto small paired bones on the female

776

00:30:22,000 --> 00:30:19,260

which helped dock the male organ in a

777

00:30:25,520 --> 00:30:22,010

sideways position

778

00:30:29,060 --> 00:30:25,530

the largest dinosaur ever discovered is

779

00:30:32,450 --> 00:30:29,070

our number four story for 2014 the

780

00:30:35,360 --> 00:30:32,460

fossils of a titanosaur sauropod or long

781

00:30:38,090 --> 00:30:35,370

neck dinosaur were found in argentina by

782

00:30:40,490 --> 00:30:38,100

a farmer the ultra mega dinosaur lived

783

00:30:42,710 --> 00:30:40,500

100 million years ago its head could

784

00:30:44,780 --> 00:30:42,720

have been lifted to around 20 meters

785

00:30:47,180 --> 00:30:44,790

above the ground and the whole beast

786

00:30:51,890 --> 00:30:47,190

would have been 40 metres long clocking

787

00:30:57,530 --> 00:30:51,900

in at 77 tons as much as 14 African

788

00:30:59,600 --> 00:30:57,540

elephants 2014 may go down as the year

789

00:31:02,420 --> 00:30:59,610

in which major countries started taking

790

00:31:04,580 --> 00:31:02,430

climate change seriously in October and

791

00:31:07,610 --> 00:31:04,590

EU agreement aimed to cut carbon

792

00:31:11,870 --> 00:31:07,620

emissions by forty percent of 1990s

793

00:31:14,300 --> 00:31:11,880

levels by the year 2030 and in November

794

00:31:16,940 --> 00:31:14,310

both the US and China the world's two

795

00:31:18,770 --> 00:31:16,950

largest carbon emitters agreed to take

796

00:31:21,430 --> 00:31:18,780

action on controlling their carbon

797

00:31:25,340 --> 00:31:21,440

outputs with the u.s. pledging to cut

798

00:31:30,380 --> 00:31:25,350

2005 carbon emission levels by 26 to 28

799

00:31:32,120 --> 00:31:30,390

percent within the next 10 years at

800

00:31:35,210 --> 00:31:32,130

number 2 is the landing of the fill a

801  
00:31:37,880 --> 00:31:35,220  
probe on a speeding comet this 10 year

802  
00:31:40,490 --> 00:31:37,890  
long project involved a half billion

803  
00:31:43,460 --> 00:31:40,500  
kilometer race to have the probe and a

804  
00:31:45,590 --> 00:31:43,470  
comet meet in the vastness of space the

805  
00:31:48,110 --> 00:31:45,600  
probe successfully landed on the comet

806  
00:31:52,190 --> 00:31:48,120  
and detected organic molecules before

807  
00:31:55,610 --> 00:31:52,200  
its batteries died and the number one

808  
00:31:58,670 --> 00:31:55,620  
science story for 2014 is the Ebola

809  
00:32:02,360 --> 00:31:58,680  
outbreak in West Africa the outbreak has

810  
00:32:05,570 --> 00:32:02,370  
infected over 17,000 people of whom over

811  
00:32:07,340 --> 00:32:05,580  
6,000 have died the Ebola virus causes

812  
00:32:09,700 --> 00:32:07,350  
impaired kidney and liver function

813  
00:32:12,290 --> 00:32:09,710

diarrhea and dehydration and

814

00:32:14,210 --> 00:32:12,300

uncontrollable bleeding the United

815

00:32:16,520 --> 00:32:14,220

Nations countries around the world and

816

00:32:18,560 --> 00:32:16,530

non-government organizations are still

817

00:32:21,530 --> 00:32:18,570

working to contain the outbreak and

818

00:32:24,890 --> 00:32:21,540

treat the infected that's our top side

819

00:32:31,659 --> 00:32:24,900

stories for 2014 I'm poor Willis and

820

00:32:36,710 --> 00:32:34,669

hi this is column Rhine from Cork

821

00:32:39,470 --> 00:32:36,720

skeptics in the Republic of Ireland here

822

00:32:41,720 --> 00:32:39,480

our next event skeptics in the castle

823

00:32:43,669 --> 00:32:41,730

features Michael Marshall recounting his

824

00:32:46,399 --> 00:32:43,679

ongoing adventures in the world of

825

00:32:48,590 --> 00:32:46,409

pseudoscience Michael needs no

826

00:32:50,989 --> 00:32:48,600

introduction to skeptics he is the

827

00:32:53,180 --> 00:32:50,999

organizer of the QED conference in the

828

00:32:55,249 --> 00:32:53,190

UK as well as the vice president of the

829

00:32:56,779 --> 00:32:55,259

Merseyside skeptics society and the

830

00:32:59,149 --> 00:32:56,789

project director of the good thinking

831

00:33:01,460 --> 00:32:59,159

Society irregularly speaks with

832

00:33:04,070 --> 00:33:01,470

proponents of pseudoscience for the be

833

00:33:07,279 --> 00:33:04,080

reasonable podcast as well as co-hosting

834

00:33:10,039 --> 00:33:07,289

the skeptics with a que podcast his talk

835

00:33:12,619 --> 00:33:10,049

begins at eight pm on Thursday the fifth

836

00:33:15,710 --> 00:33:12,629

of februari the venue is Black Rock

837

00:33:17,899 --> 00:33:15,720

castle Observatory near Cork City it's

838

00:33:23,570 --> 00:33:17,909

free to attend and all are welcome we

839

00:33:33,190 --> 00:33:23,580

look forward to seeing you there here's

840

00:33:37,899 --> 00:33:35,680

as you know the venue is the chatswood

841

00:33:39,460 --> 00:33:37,909

club Richard but um I didn't expect the

842

00:33:41,049 --> 00:33:39,470

line to be this far out the door well

843

00:33:43,299 --> 00:33:41,059

we're walking and walking and walking

844

00:33:44,680 --> 00:33:43,309

and walking and there are still people

845

00:33:47,019 --> 00:33:44,690

queued up to get inside this quite

846

00:33:48,759 --> 00:33:47,029

extraordinary man here actually um hello

847

00:33:50,830 --> 00:33:48,769

I can see you at the very end of the

848

00:33:53,529 --> 00:33:50,840

line here how's it going good what's

849

00:33:55,180 --> 00:33:53,539

your name red and dark catering and

850

00:33:58,299 --> 00:33:55,190

you're here for the whole conference or

851  
00:34:00,460 --> 00:33:58,309  
just for tonight's show oh yeah I'm

852  
00:34:01,840 --> 00:34:00,470  
former okay so obviously have you been

853  
00:34:03,430 --> 00:34:01,850  
skeptics for long watch your skeptical

854  
00:34:05,789 --> 00:34:03,440  
history others Richard Saunders by the

855  
00:34:08,319 --> 00:34:05,799  
way he's my day he's my he's my dad oh

856  
00:34:12,579 --> 00:34:08,329  
just listen start listening to the S to

857  
00:34:15,460 --> 00:34:12,589  
you about two years ago and yeah so

858  
00:34:17,139 --> 00:34:15,470  
we're mainly here to see them okay did

859  
00:34:20,589 --> 00:34:17,149  
you write any questions down for them

860  
00:34:22,419 --> 00:34:20,599  
and send them on to George no no I let

861  
00:34:24,339 --> 00:34:22,429  
everyone else do that okay and what's

862  
00:34:25,569 --> 00:34:24,349  
your specialist area of skepticism is

863  
00:34:28,470 --> 00:34:25,579

there something that really annoys you

864

00:34:30,609 --> 00:34:28,480

that you think I'm glad I'm a skeptic I

865

00:34:33,609 --> 00:34:30,619

health issues probably because you know

866

00:34:34,750 --> 00:34:33,619

having a young daughter going to just

867

00:34:36,490 --> 00:34:34,760

making sure we're getting all the right

868

00:34:38,919 --> 00:34:36,500

information around that sort of thing so

869

00:34:42,720 --> 00:34:38,929

yeah have you ran into any anti vex

870

00:34:46,720 --> 00:34:42,730

parents not yeah well I happen not

871

00:34:48,849 --> 00:34:46,730

really but when the reluctant Max's yes

872

00:34:50,889 --> 00:34:48,859

what about the other one that seems to

873

00:34:52,569 --> 00:34:50,899

be quite right it's those amber teething

874

00:34:54,430 --> 00:34:52,579

rings if you have you met anyone who's

875

00:34:55,899 --> 00:34:54,440

really into them because I don't think

876

00:34:59,200 --> 00:34:55,909

there's any science to back that up I'm

877

00:35:01,480 --> 00:34:59,210

a bit does that and also the takes what

878

00:35:04,510 --> 00:35:01,490

she taking pill form oh there plus

879

00:35:05,740 --> 00:35:04,520

center oh really and what's that

880

00:35:07,930 --> 00:35:05,750

supposed to just make you generally

881

00:35:10,540 --> 00:35:07,940

healthier is it makes you happier mix

882

00:35:13,390 --> 00:35:10,550

you're less likely to put the postnatal

883

00:35:14,650 --> 00:35:13,400

depression okay oh yeah all right for

884

00:35:16,059 --> 00:35:14,660

the eve of the amber teething ring so

885

00:35:17,589 --> 00:35:16,069

that whole thing seems and particularly

886

00:35:22,780 --> 00:35:17,599

since I usually made out of plastic too

887

00:35:24,309 --> 00:35:22,790

yeah yeah it's a bit on actually we've

888

00:35:26,200 --> 00:35:24,319

found that the skeptic zone listener

889

00:35:27,910 --> 00:35:26,210

women we knew they were there somewhere

890

00:35:29,109 --> 00:35:27,920

what's your name it's me I'm Catherine

891

00:35:31,450 --> 00:35:29,119

hi Catherine how long you been to

892

00:35:33,490 --> 00:35:31,460

skeptics only stuff ah quite a while

893

00:35:36,329 --> 00:35:33,500

back lshod remember vaguely watching a

894

00:35:38,279 --> 00:35:36,339

video one right back at the start

895

00:35:40,109 --> 00:35:38,289

yeah I'm not sure I stayed with it that

896

00:35:41,670 --> 00:35:40,119

whole time but I kind of came back the

897

00:35:43,440 --> 00:35:41,680

quite a while yet and we went to the

898

00:35:45,479 --> 00:35:43,450

ride cemetery and we did a bit of a

899

00:35:47,999 --> 00:35:45,489

ghost too were there how did you find

900

00:35:49,680 --> 00:35:48,009

that that was really interesting i was

901  
00:35:51,239 --> 00:35:49,690  
thinking about whether i would go or not

902  
00:35:53,249 --> 00:35:51,249  
and even though I'm yeah I'm pretty

903  
00:35:55,289 --> 00:35:53,259  
skeptical bad all these things there's

904  
00:35:57,749 --> 00:35:55,299  
still something about it and I don't

905  
00:35:59,819 --> 00:35:57,759  
like gotta forget the poopy enemy in

906  
00:36:01,440 --> 00:35:59,829  
fact listening back to it when that girl

907  
00:36:03,329 --> 00:36:01,450  
just said that there was a six-year-old

908  
00:36:04,650 --> 00:36:03,339  
kid next to her holding her hand I had

909  
00:36:05,910 --> 00:36:04,660  
to stop listening to my own story I

910  
00:36:07,769 --> 00:36:05,920  
couldn't even listen to it I think he

911  
00:36:09,479 --> 00:36:07,779  
walked away at that fine I did I made an

912  
00:36:10,680 --> 00:36:09,489  
excuse about having to go poo and fall

913  
00:36:11,910 --> 00:36:10,690

down or something like that I just made

914

00:36:14,249 --> 00:36:11,920

any excuse and got out here because

915

00:36:17,099 --> 00:36:14,259

because it really rattled me yeah yeah

916

00:36:18,839 --> 00:36:17,109

would be I mean it's all just this weird

917

00:36:20,489 --> 00:36:18,849

well there's three options she's either

918

00:36:23,309 --> 00:36:20,499

experiencing something of the paranormal

919

00:36:25,200 --> 00:36:23,319

which I couldn't witness and was a

920

00:36:26,670 --> 00:36:25,210

pretty awesome thing she was either

921

00:36:28,410 --> 00:36:26,680

making it up or she was suffering the

922

00:36:30,450 --> 00:36:28,420

delusion all through it none of those

923

00:36:32,789 --> 00:36:30,460

three things am I prepared for what

924

00:36:35,370 --> 00:36:32,799

might be all three well yeah oh yes oh

925

00:36:36,630 --> 00:36:35,380

yeah but it was pretty serious stuff to

926

00:36:38,549 --> 00:36:36,640

be there in the middle of the night

927

00:36:40,799 --> 00:36:38,559

wasn't it Richard it was indeed but I'm

928

00:36:42,059 --> 00:36:40,809

glad we do oh yeah I don't know if I'll

929

00:36:43,529 --> 00:36:42,069

do it again in a hurry and I wouldn't

930

00:36:44,880 --> 00:36:43,539

play the Ouija board Richard played the

931

00:36:47,969 --> 00:36:44,890

Ouija board and I wouldn't talk to him

932

00:36:50,039 --> 00:36:47,979

did it no no in silent yeah I do that

933

00:36:51,989 --> 00:36:50,049

thing as a kid where you at it like at a

934

00:36:53,880 --> 00:36:51,999

slumber party we put two fingers out of

935

00:36:55,979 --> 00:36:53,890

the people under someone to try and lift

936

00:36:57,209 --> 00:36:55,989

them up and did it work I should not

937

00:36:58,769 --> 00:36:57,219

remember but I'm assuming it did in

938

00:37:00,690 --> 00:36:58,779

otherwise I would have remembered okay

939

00:37:03,029 --> 00:37:00,700

because I I have heard of people doing

940

00:37:04,680 --> 00:37:03,039

that and it working what pains how many

941

00:37:05,700 --> 00:37:04,690

people you have I suppose yeah that's

942

00:37:06,779 --> 00:37:05,710

true and what are you looking forward to

943

00:37:08,500 --> 00:37:06,789

this weekend as part of the big

944

00:37:10,990 --> 00:37:08,510

skeptical weekend

945

00:37:14,350 --> 00:37:11,000

a bit of a break from the family left

946

00:37:15,730 --> 00:37:14,360

the kids at home and just everything

947

00:37:18,070 --> 00:37:15,740

just meeting meeting all the people that

948

00:37:19,810 --> 00:37:18,080

I listen to you so much I've got a whole

949

00:37:21,340 --> 00:37:19,820

list of questions for people and I've

950

00:37:23,380 --> 00:37:21,350

broken it bat down by who I'm going to

951  
00:37:24,970 --> 00:37:23,390  
ask well they're all in here and you

952  
00:37:26,110 --> 00:37:24,980  
better sign in so the line doesn't get

953  
00:37:27,580 --> 00:37:26,120  
any longer and if you've got any

954  
00:37:31,450 --> 00:37:27,590  
questions for me please come and ask me

955  
00:37:33,400 --> 00:37:31,460  
will do pretty good yeah it's going to

956  
00:37:35,440 --> 00:37:33,410  
have a chat about what's going on look

957  
00:37:36,610 --> 00:37:35,450  
it's a relatively quiet oasis of

958  
00:37:39,220 --> 00:37:36,620  
skepticism over here in the corner

959  
00:37:41,590 --> 00:37:39,230  
who've we got I got Terry Kelly the vice

960  
00:37:42,970 --> 00:37:41,600  
president of the Victorian skeptic now

961  
00:37:44,020 --> 00:37:42,980  
you'd be having a big relaxed one with

962  
00:37:46,420 --> 00:37:44,030  
your feet up because you've got nothing

963  
00:37:47,800 --> 00:37:46,430

to do with this none of the or now

964

00:37:49,450 --> 00:37:47,810

organizing this side but we're getting

965

00:37:50,710 --> 00:37:49,460

bit nervous because we might have to do

966

00:37:53,230 --> 00:37:50,720

it again in a couple years you never

967

00:37:55,360 --> 00:37:53,240

know what was the thing that sort of was

968

00:37:56,860 --> 00:37:55,370

a difficult at the last minute for a

969

00:37:58,150 --> 00:37:56,870

conference like this just everyone who

970

00:37:59,650 --> 00:37:58,160

has one there's always something weird

971

00:38:02,080 --> 00:37:59,660

think it happens at the last minute and

972

00:38:04,240 --> 00:38:02,090

you got to run around like a nut yeah we

973

00:38:06,589 --> 00:38:04,250

had problems with accommodation for some

974

00:38:09,589 --> 00:38:06,599

of the guest speakers

975

00:38:12,229 --> 00:38:09,599

for once we didn't actually go to the

976

00:38:15,499 --> 00:38:12,239

hotels and two or three of our star

977

00:38:16,759 --> 00:38:15,509

performers were accommodated in

978

00:38:18,769 --> 00:38:16,769

accommodation didn't have air

979

00:38:19,789 --> 00:38:18,779

conditioning and it was hot right so

980

00:38:22,749 --> 00:38:19,799

that was that happened right in the

981

00:38:24,559 --> 00:38:22,759

middle of the convention that yeah look

982

00:38:26,210 --> 00:38:24,569

registration was a problem for us

983

00:38:28,549 --> 00:38:26,220

because we did the registration on the

984

00:38:30,319 --> 00:38:28,559

Friday night so getting people in the

985

00:38:32,239 --> 00:38:30,329

door well there's a problem here tonight

986

00:38:33,979 --> 00:38:32,249

but it's not a skeptical problem as the

987

00:38:35,660 --> 00:38:33,989

club's the problem it there's only two

988

00:38:37,400 --> 00:38:35,670

books people can time to get in we're

989

00:38:39,170 --> 00:38:37,410

just saying we were just talking that

990

00:38:41,900 --> 00:38:39,180

this is it's really fabulous at the so

991

00:38:44,150 --> 00:38:41,910

many people it's a little bit sad that

992

00:38:45,739 --> 00:38:44,160

it's so I'd to get a drink we're the

993

00:38:48,529 --> 00:38:45,749

clinkers two people here a lot of

994

00:38:50,479 --> 00:38:48,539

thirsty people yeah but it's fabulous it

995

00:38:52,460 --> 00:38:50,489

like there are people catching up with

996

00:38:54,319 --> 00:38:52,470

old friends yes and there are people

997

00:38:56,630 --> 00:38:54,329

meeting new people and I suppose the

998

00:38:58,700 --> 00:38:56,640

more drinks they have the more new

999

00:39:01,069 --> 00:38:58,710

people they'll meet which is why it's a

1000

00:39:02,870 --> 00:39:01,079

shame it's so hard to get a drink that's

1001

00:39:04,430 --> 00:39:02,880

pretty true and one of my favorite

1002

00:39:06,319 --> 00:39:04,440

teachers from the Victorian system here

1003

00:39:07,579 --> 00:39:06,329

how are you sir thanks man oh good how

1004

00:39:08,989 --> 00:39:07,589

are you pretty good could you let us

1005

00:39:11,059 --> 00:39:08,999

know who you are again and which school

1006

00:39:12,380 --> 00:39:11,069

e right now same school I'm Adam

1007

00:39:13,729 --> 00:39:12,390

valeting every week still a McKinnon

1008

00:39:15,289 --> 00:39:13,739

Secondary College in me over that's

1009

00:39:17,120 --> 00:39:15,299

right and how's your skeptical group

1010

00:39:19,640 --> 00:39:17,130

they're going skeptical groves going

1011

00:39:21,079 --> 00:39:19,650

really well passing through a lot of

1012

00:39:22,819 --> 00:39:21,089

different students coming in you know a

1013

00:39:24,200 --> 00:39:22,829

lot of new faces turning up at the start

1014

00:39:25,789 --> 00:39:24,210

of every year which is really nice to

1015

00:39:27,019 --> 00:39:25,799

see and what sort of subjects that

1016

00:39:28,099 --> 00:39:27,029

they've got interested in lately is

1017

00:39:29,150 --> 00:39:28,109

there something they've been interested

1018

00:39:31,400 --> 00:39:29,160

in it's different from the regular

1019

00:39:32,690 --> 00:39:31,410

movement and we've been spending a bit

1020

00:39:34,219 --> 00:39:32,700

of time lately actually talking about

1021

00:39:37,489 --> 00:39:34,229

the differences between science and

1022

00:39:39,200 --> 00:39:37,499

pseudoscience which I I found just is a

1023

00:39:40,670 --> 00:39:39,210

very short little image on the internet

1024

00:39:42,950 --> 00:39:40,680

that had a few key points and I thought

1025

00:39:44,900 --> 00:39:42,960

I okay this will entertain the kids for

1026

00:39:46,549 --> 00:39:44,910

about an hour at lunchtime and two

1027

00:39:48,349 --> 00:39:46,559

months later we are still talking about

1028

00:39:49,970 --> 00:39:48,359

that exact same thing

1029

00:39:52,460 --> 00:39:49,980

and what is the simple definition that

1030

00:39:54,410 --> 00:39:52,470

you gave them I don't think I had a

1031

00:39:56,509 --> 00:39:54,420

simple definition for it was more of a

1032

00:39:57,950 --> 00:39:56,519

if it does these things it's probably

1033

00:40:01,069 --> 00:39:57,960

pseudoscience if it does these things

1034

00:40:02,809 --> 00:40:01,079

it's probably science and have many of

1035

00:40:04,099 --> 00:40:02,819

these students gone on to be in the

1036

00:40:07,190 --> 00:40:04,109

young skeptics group of Melbourne and

1037

00:40:09,349 --> 00:40:07,200

that sort of thing I think so yeah a few

1038

00:40:10,970 --> 00:40:09,359

of the students are sort of in the more

1039

00:40:12,529 --> 00:40:10,980

senior years of life I know there are a

1040

00:40:15,559 --> 00:40:12,539

couple definitely you have gone to join

1041

00:40:18,349 --> 00:40:15,569

on a Melbourne Uni and join I think this

1042

00:40:21,410 --> 00:40:18,359

I forgot the name rational it's a

1043

00:40:23,479 --> 00:40:21,420

rational society okay so if you my kids

1044

00:40:25,190 --> 00:40:23,489

have gone on to do that and on to bigger

1045

00:40:27,799 --> 00:40:25,200

and better things which is always nice

1046

00:40:29,089 --> 00:40:27,809

to see leave me in the dust and lots of

1047

00:40:30,529 --> 00:40:29,099

thing that's still excites you about it

1048

00:40:32,180 --> 00:40:30,539

aside and being a teacher it's a lot of

1049

00:40:34,190 --> 00:40:32,190

the same same how do you make it fresh

1050

00:40:35,839 --> 00:40:34,200

this off all the time having a really

1051

00:40:37,579 --> 00:40:35,849

faulty memory so every time I do

1052

00:40:40,069 --> 00:40:37,589

everything it feels new to me goldfish

1053

00:40:41,299 --> 00:40:40,079

memory yeah exactly right but I'm used

1054

00:40:42,349 --> 00:40:41,309

to that as a maths teacher every

1055

00:40:43,430 --> 00:40:42,359

classroom you know the kids have

1056

00:40:45,769 --> 00:40:43,440

forgotten what I told him the day before

1057

00:40:47,660 --> 00:40:45,779

so I could probably just do the exact

1058

00:40:48,979 --> 00:40:47,670

same talk every single fortnight and the

1059

00:40:50,299 --> 00:40:48,989

kids to get the same amount out of it

1060

00:40:51,979 --> 00:40:50,309

what are you looking forward to this

1061

00:40:53,089 --> 00:40:51,989

week Adam is there one speaker or one

1062

00:40:55,579 --> 00:40:53,099

topic you really want to get your teeth

1063

00:40:57,890 --> 00:40:55,589

into I'm looking forward to having a

1064

00:40:59,299 --> 00:40:57,900

weekend off I'm just being able to put

1065

00:41:00,920 --> 00:40:59,309

my feet up and not have to worry about

1066

00:41:02,210 --> 00:41:00,930

anything for a while to be honest but

1067

00:41:04,220 --> 00:41:02,220

now there are a lot of things I'm

1068

00:41:07,370 --> 00:41:04,230

looking forward to hearing a dick smith

1069

00:41:10,020 --> 00:41:07,380

speak seeing the skeptics guide

1070

00:41:11,880 --> 00:41:10,030

presentations there in the individual

1071

00:41:14,250 --> 00:41:11,890

one doctor novellas at the end of it I

1072

00:41:16,320 --> 00:41:14,260

think I'm speaking just before Stephen

1073

00:41:18,180 --> 00:41:16,330

novella so I don't know if that's going

1074

00:41:19,890 --> 00:41:18,190

to make it easy for him or worse being a

1075

00:41:22,020 --> 00:41:19,900

lot of people looking forward to hearing

1076

00:41:24,120 --> 00:41:22,030

adam van langenberg speak well there you

1077

00:41:27,630 --> 00:41:24,130

go yeah yeah thank you at least at least

1078

00:41:29,099 --> 00:41:27,640

one Terry thanks buster students on a

1079

00:41:30,810 --> 00:41:29,109

bowler did you look at the the

1080

00:41:33,030 --> 00:41:30,820

skepticism an angle to a bolo and that

1081

00:41:35,070 --> 00:41:33,040

was going around yeah we talked about it

1082

00:41:36,810 --> 00:41:35,080

just a little bit more about the you

1083

00:41:38,339 --> 00:41:36,820

know the representation of it the media

1084

00:41:39,720 --> 00:41:38,349

and the difference between just

1085

00:41:41,670 --> 00:41:39,730

believing everything you see on the TV

1086

00:41:45,420 --> 00:41:41,680

and how can you go and do some actual

1087

00:41:46,680 --> 00:41:45,430

research into it yourself look you have

1088

00:41:48,630 --> 00:41:46,690

a good time and I hope your speech goes

1089

00:41:50,460 --> 00:41:48,640

well yeah thanks very much for you think

1090

00:41:51,420 --> 00:41:50,470

standing ovation that's our look if

1091

00:41:54,300 --> 00:41:51,430

there's anything less I'll be

1092

00:41:55,470 --> 00:41:54,310

disappointed I think he's someone I

1093

00:41:58,290 --> 00:41:55,480

haven't seen for a while who've we got

1094

00:42:00,150 --> 00:41:58,300

here very well lives my name and what

1095

00:42:03,089 --> 00:42:00,160

are you up to today Barry how many of

1096

00:42:05,010 --> 00:42:03,099

these have you been to now well I'm here

1097

00:42:06,390 --> 00:42:05,020

as a volunteer I was running the

1098

00:42:08,820 --> 00:42:06,400

skeptics for a number of years and I

1099

00:42:11,490 --> 00:42:08,830

attended 27 of these on the trot and I

1100

00:42:13,589 --> 00:42:11,500

retired about five years ago and decided

1101

00:42:14,940 --> 00:42:13,599

just to drop in occasionally but they

1102

00:42:17,400 --> 00:42:14,950

they needed somebody to give a bit of a

1103

00:42:19,230 --> 00:42:17,410

hand and I live locally so I'm giving

1104

00:42:21,089 --> 00:42:19,240

help yeah I hadn't seen you around for a

1105

00:42:23,130 --> 00:42:21,099

little while Barry and last time I spoke

1106

00:42:25,470 --> 00:42:23,140

to you talked about your early history

1107

00:42:27,450 --> 00:42:25,480

with the skeptics movement and how you

1108

00:42:29,820 --> 00:42:27,460

thought that sometimes the interest in

1109

00:42:32,010 --> 00:42:29,830

paranormal divided upon gender lines

1110

00:42:33,570 --> 00:42:32,020

sometimes like guys tend to go for UFOs

1111

00:42:36,630 --> 00:42:33,580

while women tend to go for the more

1112

00:42:39,839 --> 00:42:36,640

spiritual that was my observation over

1113

00:42:42,900 --> 00:42:39,849

the years yeah and I guess that's that's

1114

00:42:45,180 --> 00:42:42,910

similar in real life to the sort of more

1115

00:42:47,700 --> 00:42:45,190

technical things men tend to be more

1116

00:42:51,300 --> 00:42:47,710

interesting women tend to be Morrison in

1117

00:42:53,640 --> 00:42:51,310

the in the emotional things I suppose

1118

00:42:55,380 --> 00:42:53,650

now i'll probably get castigated for

1119

00:42:56,700 --> 00:42:55,390

that but you know i don't mean that in a

1120

00:42:59,849 --> 00:42:56,710

negative way it's just the way people

1121

00:43:01,680 --> 00:42:59,859

are now is there some new wow that's

1122

00:43:03,270 --> 00:43:01,690

come around that you haven't seen before

1123

00:43:05,870 --> 00:43:03,280

because you've just about seen at all is

1124

00:43:08,070 --> 00:43:05,880

there something new you've seen

1125

00:43:09,450 --> 00:43:08,080

late-night look whoever said there's

1126

00:43:11,120 --> 00:43:09,460

nothing new Under the Sun I think i

1127

00:43:14,730 --> 00:43:11,130

mighta been Shakespeare was quite right

1128

00:43:17,820 --> 00:43:14,740

but having been the Bible but yeah look

1129

00:43:19,680 --> 00:43:17,830

they all they come and go and maybe they

1130

00:43:23,099 --> 00:43:19,690

slightly different guises some of these

1131

00:43:26,190 --> 00:43:23,109

things come in with the by and large the

1132

00:43:27,510 --> 00:43:26,200

same old fundamental beliefs keep coming

1133

00:43:29,040 --> 00:43:27,520

back they get knocked on the head for a

1134

00:43:33,089 --> 00:43:29,050

wild and like I'm back again you can

1135

00:43:34,770 --> 00:43:33,099

guarantee it I expect possibly spoon

1136

00:43:37,140 --> 00:43:34,780

bending might be due for a come back any

1137

00:43:38,790 --> 00:43:37,150

time do you think it all gets back to

1138

00:43:40,380 --> 00:43:38,800

people wanting something for nothing

1139

00:43:41,670 --> 00:43:40,390

they want to lose weight without doing

1140

00:43:43,050 --> 00:43:41,680

anything they want to be smart or

1141

00:43:45,089 --> 00:43:43,060

without going and doing any more

1142

00:43:46,950 --> 00:43:45,099

learning that sort of thing no question

1143

00:43:48,780 --> 00:43:46,960

about that yeah sure I mean they yeah

1144

00:43:51,210 --> 00:43:48,790

it's a quite understandable thing I mean

1145

00:43:54,250 --> 00:43:51,220

I think as a species we're a fairly all

1146

00:43:56,200 --> 00:43:54,260

we'd like to be idle and

1147

00:43:58,420 --> 00:43:56,210

those of us are fortunate enough to live

1148

00:43:59,980 --> 00:43:58,430

in societies like ours get a lot more

1149

00:44:01,780 --> 00:43:59,990

idleness than perhaps if we were living

1150

00:44:03,760 --> 00:44:01,790

in Africa or somewhere like that where

1151  
00:44:07,360 --> 00:44:03,770  
you have to actually work pretty hard to

1152  
00:44:08,920 --> 00:44:07,370  
stay alive so and we get a custom lip

1153  
00:44:11,410 --> 00:44:08,930  
and then we would start wanting more and

1154  
00:44:12,880 --> 00:44:11,420  
more things for nothing so you've been

1155  
00:44:19,480 --> 00:44:12,890  
well and truly retired for a while now

1156  
00:44:21,100 --> 00:44:19,490  
how do you fill up your days wow I I do

1157  
00:44:22,990 --> 00:44:21,110  
a lot of reading catching up with the

1158  
00:44:24,460 --> 00:44:23,000  
reading I just didn't have time to there

1159  
00:44:25,990 --> 00:44:24,470  
before I got a lot of skeptical books

1160  
00:44:28,870 --> 00:44:26,000  
I'm reading and I'm ready a lot more

1161  
00:44:32,290 --> 00:44:28,880  
fiction these days they used to and I've

1162  
00:44:34,390 --> 00:44:32,300  
got a couple of grand sons one of whom

1163  
00:44:36,160 --> 00:44:34,400

is just about just stopped doing a PhD

1164

00:44:38,980 --> 00:44:36,170

and one of them was just parts it past

1165

00:44:40,900 --> 00:44:38,990

these HSC so they're not little kids but

1166

00:44:42,640 --> 00:44:40,910

I still take as much looking after from

1167

00:44:44,550 --> 00:44:42,650

our grandfather like driving them he had

1168

00:44:46,990 --> 00:44:44,560

driving them but that doesn't change

1169

00:44:48,730 --> 00:44:47,000

what's your advice to them when it comes

1170

00:44:51,190 --> 00:44:48,740

to thinking critically that what's the

1171

00:44:52,870 --> 00:44:51,200

first step you should take well I always

1172

00:44:56,050 --> 00:44:52,880

tell them never believe anything you

1173

00:44:58,570 --> 00:44:56,060

hear without a reason I'm if somebody

1174

00:44:59,860 --> 00:44:58,580

and make sure the reason isn't that you

1175

00:45:01,660 --> 00:44:59,870

actually want to believe it make sure

1176  
00:45:04,630 --> 00:45:01,670  
there's some good reason for believing

1177  
00:45:05,920 --> 00:45:04,640  
what claims we don't wake and and I

1178  
00:45:09,400 --> 00:45:05,930  
think that stands people in good stead

1179  
00:45:11,710 --> 00:45:09,410  
anywhere these boys are pretty smart

1180  
00:45:16,150 --> 00:45:11,720  
pretty level-headed but like all young

1181  
00:45:17,710 --> 00:45:16,160  
men they fall for the zeitgeist of the

1182  
00:45:19,000 --> 00:45:17,720  
age if you like it I tend to believe in

1183  
00:45:20,680 --> 00:45:19,010  
some ratbag things that I wouldn't

1184  
00:45:22,330 --> 00:45:20,690  
believe in but then with their age I

1185  
00:45:25,390 --> 00:45:22,340  
used to believe another threat bag thing

1186  
00:45:27,400 --> 00:45:25,400  
so that's why it goes thanks Barry enjoy

1187  
00:45:29,560 --> 00:45:27,410  
your this would be your 28th convention

1188  
00:45:31,690 --> 00:45:29,570

you'd been to then live yeah I think so

1189

00:45:33,580 --> 00:45:31,700

I i really haven't kept careful it was a

1190

00:45:35,710 --> 00:45:33,590

round about that yeah yeah i think this

1191

00:45:37,720 --> 00:45:35,720

is about the 30th and i've been to all

1192

00:45:40,720 --> 00:45:37,730

except the cup also will you go nuts

1193

00:45:43,570 --> 00:45:40,730

here today Barry I will I will do thank

1194

00:45:45,010 --> 00:45:43,580

you very much I'm here with a fan of the

1195

00:45:46,780 --> 00:45:45,020

Skip exam what's your name sir Enrique

1196

00:45:50,020 --> 00:45:46,790

and how long you been listening to the

1197

00:45:51,850 --> 00:45:50,030

skeptic zone for 8 to 10 years it's hard

1198

00:45:53,980 --> 00:45:51,860

to tell anymore but it quite a while and

1199

00:45:55,090 --> 00:45:53,990

then what now what is it about a thick

1200

00:45:56,860 --> 00:45:55,100

you're kind of like I guess it's an

1201

00:45:58,630 --> 00:45:56,870

Australian show for start but it's

1202

00:46:00,210 --> 00:45:58,640

Australian it helps me keep up to date

1203

00:46:02,130 --> 00:46:00,220

with what's going on as

1204

00:46:06,300 --> 00:46:02,140

a nicely concentrated resource for

1205

00:46:08,400 --> 00:46:06,310

Australian skeptical things and overall

1206

00:46:10,620 --> 00:46:08,410

just very interesting the format that

1207

00:46:12,839 --> 00:46:10,630

Richards man should put together overall

1208

00:46:14,250 --> 00:46:12,849

I've just had a great time listening to

1209

00:46:16,800 --> 00:46:14,260

it yeah what do you think of us going to

1210

00:46:18,690 --> 00:46:16,810

the cemetery the other day I will admit

1211

00:46:20,849 --> 00:46:18,700

I'm a bit behind because I've been

1212

00:46:22,260 --> 00:46:20,859

hooked on a new thing that I'm catching

1213

00:46:23,849 --> 00:46:22,270

up with but then I will catch up I

1214

00:46:25,080 --> 00:46:23,859

promise oh that's okay because the thing

1215

00:46:27,330 --> 00:46:25,090

is they sit there forever so you can

1216

00:46:28,620 --> 00:46:27,340

take your time yes that is one of the

1217

00:46:30,180 --> 00:46:28,630

brilliant things about are you a

1218

00:46:32,070 --> 00:46:30,190

commuter that likes to listen on the way

1219

00:46:34,530 --> 00:46:32,080

to work you're in the shower kind of guy

1220

00:46:37,530 --> 00:46:34,540

before you go to bed when doing the

1221

00:46:39,630 --> 00:46:37,540

dishes mainly and when I'm driving the

1222

00:46:42,540 --> 00:46:39,640

kids aren't in the car okay and head of

1223

00:46:43,920 --> 00:46:42,550

the kids feel about it daddy daddy I

1224

00:46:47,190 --> 00:46:43,930

don't like this story turn it off and

1225

00:46:50,040 --> 00:46:47,200

the case you can turn it off on your

1226

00:46:51,570 --> 00:46:50,050

older yeah I try but then they just get

1227

00:46:53,730 --> 00:46:51,580

louder and start playing louder games

1228

00:46:56,070 --> 00:46:53,740

and there's no point so I give up I they

1229

00:46:57,300 --> 00:46:56,080

win oh and what's your favorite kind of

1230

00:46:59,010 --> 00:46:57,310

what do you hate the most what are the

1231

00:47:01,349 --> 00:46:59,020

one we go that damn woo and you shake

1232

00:47:05,609 --> 00:47:01,359

your fist acupuncture because my boss

1233

00:47:07,410 --> 00:47:05,619

has a an acupuncture clinic and I have

1234

00:47:09,450 --> 00:47:07,420

to deal with it at work including her at

1235

00:47:10,770 --> 00:47:09,460

one point say coming up to me with a

1236

00:47:12,750 --> 00:47:10,780

couple of acupuncture needles when I had

1237

00:47:14,880 --> 00:47:12,760

a particularly stuffy nose my reaction

1238

00:47:18,300 --> 00:47:14,890

she thought I was scared of the needles

1239

00:47:20,730 --> 00:47:18,310

mine it was more of just don't want to

1240

00:47:23,839 --> 00:47:20,740

have to deal with this yes it was a very

1241

00:47:26,849 --> 00:47:23,849

uncomfortable and difficult situation

1242

00:47:30,470 --> 00:47:26,859

because she'll say but it's proven and

1243

00:47:32,790 --> 00:47:30,480

you'll go but it's not avoid the subject

1244

00:47:36,240 --> 00:47:32,800

she's one of the two directors of the

1245

00:47:37,950 --> 00:47:36,250

company okay yes well so no yeah bit of

1246

00:47:40,349 --> 00:47:37,960

tact there i can understand thank you

1247

00:47:42,480 --> 00:47:40,359

very much so i love who I work I just

1248

00:47:43,890 --> 00:47:42,490

don't like that one aspect of it it

1249

00:47:45,240 --> 00:47:43,900

makes it very difficult we'll enjoy the

1250

00:47:47,609 --> 00:47:45,250

rest of the conference saying thank you

1251  
00:47:49,380 --> 00:47:47,619  
very much look I'm here with mr. Marsh

1252  
00:47:51,210 --> 00:47:49,390  
and he was losing fans at a rate of

1253  
00:47:53,099 --> 00:47:51,220  
knots last night now mr. Marsh you were

1254  
00:47:54,690 --> 00:47:53,109  
having a big skeptical discussion about

1255  
00:47:56,430 --> 00:47:54,700  
television that could have gone horribly

1256  
00:47:58,050 --> 00:47:56,440  
wrong for your entire career last night

1257  
00:48:00,359 --> 00:47:58,060  
in chatswood that's true i made some

1258  
00:48:02,099 --> 00:48:00,369  
appalling nerd four pars because i was

1259  
00:48:04,560 --> 00:48:02,109  
pointing out that i think game of

1260  
00:48:07,620 --> 00:48:04,570  
thrones is appalling leaning and has no

1261  
00:48:09,810 --> 00:48:07,630  
characters and the plot does not really

1262  
00:48:11,430 --> 00:48:09,820  
sir progress so much is kind of plugged

1263  
00:48:12,240 --> 00:48:11,440

on and he has no idea where he's going

1264

00:48:14,160 --> 00:48:12,250

and they

1265

00:48:16,170 --> 00:48:14,170

I usually refer to that shows no pants

1266

00:48:17,460 --> 00:48:16,180

monarchs yeah if it was called that I

1267

00:48:18,690 --> 00:48:17,470

could go with it cuz at least its kind

1268

00:48:19,920 --> 00:48:18,700

of putting out there exactly what's all

1269

00:48:21,930 --> 00:48:19,930

about but don't pretend that there's

1270

00:48:23,040 --> 00:48:21,940

this kind of well thought out story arc

1271

00:48:24,180 --> 00:48:23,050

that's coming you've no idea where it's

1272

00:48:26,070 --> 00:48:24,190

gone me this one of milk it and then I

1273

00:48:27,600 --> 00:48:26,080

pointed out that the people who compared

1274

00:48:29,430 --> 00:48:27,610

Breaking Bad to being some Shakespearean

1275

00:48:31,050 --> 00:48:29,440

tragedy is just offensive it is a

1276

00:48:33,060 --> 00:48:31,060

terrible terrible show with

1277

00:48:34,830 --> 00:48:33,070

one-dimensional characters you don't

1278

00:48:36,150 --> 00:48:34,840

have any and I think I lost pretty much

1279

00:48:38,070 --> 00:48:36,160

everyone who's ever listened to any show

1280

00:48:39,990 --> 00:48:38,080

I've ever done around that table then

1281

00:48:41,400 --> 00:48:40,000

cut you any slack and just nod or at

1282

00:48:42,600 --> 00:48:41,410

least would they go straight few throat

1283

00:48:43,650 --> 00:48:42,610

I would say it's not the slack that I

1284

00:48:44,880 --> 00:48:43,660

was worried about them cutting it was

1285

00:48:46,140 --> 00:48:44,890

definitely the throw it that's where I

1286

00:48:47,850 --> 00:48:46,150

was worried about the cutting taking

1287

00:48:49,950 --> 00:48:47,860

place so what were you holding up some

1288

00:48:51,570 --> 00:48:49,960

show like the doctors or emmerdale one

1289

00:48:53,310 --> 00:48:51,580

they are the great products of the UK

1290

00:48:54,900 --> 00:48:53,320

output you know I don't think anybody

1291

00:48:56,310 --> 00:48:54,910

who is listening to this wherever this

1292

00:48:58,440 --> 00:48:56,320

girls will have heard of em adil and

1293

00:48:59,820 --> 00:48:58,450

that is frankly a good thing because

1294

00:49:01,440 --> 00:48:59,830

emma was one of the most appalling

1295

00:49:02,940 --> 00:49:01,450

things we've ever committed one opposed

1296

00:49:05,010 --> 00:49:02,950

most appalling act we've ever committed

1297

00:49:06,690 --> 00:49:05,020

in Britain and we were colonial powers

1298

00:49:07,860 --> 00:49:06,700

you know I'm adele is definitely the top

1299

00:49:09,630 --> 00:49:07,870

of the most appalling things we've ever

1300

00:49:11,250 --> 00:49:09,640

done no hang on wasn't a show that was

1301  
00:49:12,630 --> 00:49:11,260  
worse than that called Silverado or

1302  
00:49:14,820 --> 00:49:12,640  
something that was made out of Scotland

1303  
00:49:16,770 --> 00:49:14,830  
or something in the 90s hello Terrell

1304  
00:49:18,480 --> 00:49:16,780  
eldorado that's all that's made out why

1305  
00:49:21,600 --> 00:49:18,490  
do you know this is ourselves in the UK

1306  
00:49:24,150 --> 00:49:21,610  
in the 90s on a tube and someone said

1307  
00:49:26,730 --> 00:49:24,160  
Scotland gave that the England

1308  
00:49:28,140 --> 00:49:26,740  
television with john logie baird us like

1309  
00:49:30,420 --> 00:49:28,150  
that and all the England's given us as

1310  
00:49:32,010 --> 00:49:30,430  
El Dorado right okay so I used as a

1311  
00:49:33,210 --> 00:49:32,020  
punch line back then and it's stuck in

1312  
00:49:35,640 --> 00:49:33,220  
my head as being perhaps the worst

1313  
00:49:36,720 --> 00:49:35,650

television show everyone English TV it's

1314

00:49:38,100 --> 00:49:36,730

got to be pretty much up there but I

1315

00:49:40,260 --> 00:49:38,110

love the fact that you still use it as a

1316

00:49:41,940 --> 00:49:40,270

punch line 20 years later when nobody

1317

00:49:43,290 --> 00:49:41,950

recognized it at the time so not only is

1318

00:49:45,150 --> 00:49:43,300

this an obscure reference it's a

1319

00:49:48,360 --> 00:49:45,160

massively dated obscure reference well

1320

00:49:50,430 --> 00:49:48,370

there you go well you know okay well

1321

00:49:52,470 --> 00:49:50,440

okay what would you use a part from Emma

1322

00:49:54,120 --> 00:49:52,480

dial is one that's maybe it's got that

1323

00:49:55,920 --> 00:49:54,130

they tried it was really bad never

1324

00:49:57,960 --> 00:49:55,930

unrecognized as it as a recent failure

1325

00:49:59,490 --> 00:49:57,970

on English TV I've got a recent fear you

1326

00:50:01,350 --> 00:49:59,500

know I think most of us so much of

1327

00:50:02,280 --> 00:50:01,360

English teles it is a massive failure

1328

00:50:04,190 --> 00:50:02,290

this is the problem I don't think we're

1329

00:50:06,360 --> 00:50:04,200

not we're not trying to do anything

1330

00:50:07,920 --> 00:50:06,370

interesting not trying to tell stories

1331

00:50:09,240 --> 00:50:07,930

we're just trying to solve pump stuff

1332

00:50:11,040 --> 00:50:09,250

out so unless you're watching something

1333

00:50:12,810 --> 00:50:11,050

on bbc4 which tends to do reasonably

1334

00:50:15,000 --> 00:50:12,820

well anything out on the main stream

1335

00:50:16,980 --> 00:50:15,010

channels is pretty dire all the decent

1336

00:50:18,240 --> 00:50:16,990

Ellie is coming from America I'll still

1337

00:50:20,280 --> 00:50:18,250

hold my hands after that you know things

1338

00:50:22,050 --> 00:50:20,290

like you've got your your house of cards

1339

00:50:23,160 --> 00:50:22,060

your Boardwalk Empire Sopranos are still

1340

00:50:24,450 --> 00:50:23,170

peerless I

1341

00:50:26,490 --> 00:50:24,460

I think I only ever watch American

1342

00:50:28,319 --> 00:50:26,500

television the answer the secret shame

1343

00:50:29,819 --> 00:50:28,329

is that you didn't tell them last night

1344

00:50:32,130 --> 00:50:29,829

you never got around to telling them

1345

00:50:33,870 --> 00:50:32,140

that you don't care for doctor who will

1346

00:50:36,510 --> 00:50:33,880

that much don't see it let's don't [\h\_\_\h]

1347

00:50:37,799 --> 00:50:36,520

out loud when I can I've lost so many

1348

00:50:39,870 --> 00:50:37,809

fans but I don't wanna be like lynched

1349

00:50:41,520 --> 00:50:39,880

on the way out yes I don't like Doctor

1350

00:50:43,559 --> 00:50:41,530

Who yes I've never seen episode don't

1351  
00:50:45,150 --> 00:50:43,569  
tell anyone that's just embarrassing so

1352  
00:50:47,579 --> 00:50:45,160  
you also not not a fan of the work of

1353  
00:50:49,200 --> 00:50:47,589  
Shatner yeah I've got I've got a

1354  
00:50:51,990 --> 00:50:49,210  
grudging admiration for Shatner based on

1355  
00:50:53,819 --> 00:50:52,000  
his cover of common people which is for

1356  
00:50:56,400 --> 00:50:53,829  
me that is the absolute Heights that

1357  
00:51:10,560 --> 00:50:56,410  
anyone has ever achieved in any type of

1358  
00:51:15,640 --> 00:51:13,540  
my name is Carrie papi hi I'm Steve

1359  
00:51:19,240 --> 00:51:15,650  
Cogan this is Richard Saunders fight

1360  
00:51:21,070 --> 00:51:19,250  
George Rob here I'm Jay novella I can

1361  
00:51:23,320 --> 00:51:21,080  
tell you what I hate about QED would I

1362  
00:51:26,290 --> 00:51:23,330  
really hate is that it comes to an end

1363  
00:51:28,900 --> 00:51:26,300

each year QED for me it's just a

1364

00:51:32,020 --> 00:51:28,910

wonderful opportunity to hear lots of

1365

00:51:33,820 --> 00:51:32,030

speakers hearing the crunch of 350

1366

00:51:36,130 --> 00:51:33,830

people purposely and simultaneously

1367

00:51:38,770 --> 00:51:36,140

overdosing on homeopathic pills for the

1368

00:51:46,140 --> 00:51:38,780

10 23 event was a sound I will never

1369

00:51:48,910 --> 00:51:46,150

forget it's simply one of the better

1370

00:51:51,490 --> 00:51:48,920

skeptical conventions anywhere in the

1371

00:51:55,390 --> 00:51:51,500

world and you're you're asking me what I

1372

00:51:57,340 --> 00:51:55,400

think a QED I haven't been the QED and

1373

00:51:59,320 --> 00:51:57,350

also because it's such a personable

1374

00:52:00,820 --> 00:51:59,330

event to actually meet quite a few of

1375

00:52:04,090 --> 00:52:00,830

these people for the first time because

1376

00:52:06,190 --> 00:52:04,100

you will meet many many fun and

1377

00:52:09,120 --> 00:52:06,200

interesting people you will see great

1378

00:52:11,950 --> 00:52:09,130

talks by some of the best thinkers and

1379

00:52:13,600 --> 00:52:11,960

you'll also meet people who have a drive

1380

00:52:16,270 --> 00:52:13,610

and a passion for making the world

1381

00:52:19,840 --> 00:52:16,280

better by protecting people and not

1382

00:52:21,340 --> 00:52:19,850

being dicks about it you know right down

1383

00:52:24,610 --> 00:52:21,350

to people who I maybe wouldn't have

1384

00:52:26,950 --> 00:52:24,620

heard of without QED calm I would be an

1385

00:52:30,460 --> 00:52:26,960

epic guest because I could speak in a

1386

00:52:32,650 --> 00:52:30,470

flawless British accent hello everyone

1387

00:52:36,040 --> 00:52:32,660

like that and everyone would be like who

1388

00:52:40,570 --> 00:52:36,050

is this English guy are you invading me

1389

00:52:43,630 --> 00:52:40,580

he'd love to go QED 2015 April the 24th

1390

00:52:45,520 --> 00:52:43,640

the 26th in Manchester England 12 main

1391

00:52:48,700 --> 00:52:45,530

stage speakers eight panels three

1392

00:52:52,090 --> 00:52:48,710

comedians and 500 friends and the

1393

00:52:53,590 --> 00:52:52,100

massive party tickets on 99 pounds or 69

1394

00:52:58,570 --> 00:52:53,600

pounds for students for the weekend

1395

00:53:12,839 --> 00:52:58,580

including saturday night www QED korg to

1396

00:53:20,099 --> 00:53:18,180

I give a listening to the skeptic zoned

1397

00:53:23,130 --> 00:53:20,109

in the next week I hope to visit my old

1398

00:53:25,380 --> 00:53:23,140

friend Eugenie Scott and maybe visit a

1399

00:53:27,900 --> 00:53:25,390

few scientific places around the san

1400

00:53:30,719 --> 00:53:27,910

francisco bay area before jetting off

1401

00:53:32,549 --> 00:53:30,729

home yes a very quick trip this time

1402

00:53:35,729 --> 00:53:32,559

around thank you to those people who

1403

00:53:38,969 --> 00:53:35,739

have just recently subscribed to the

1404

00:53:42,960 --> 00:53:38,979

skeptic zone via paypal at ww skeptics

1405

00:53:45,239 --> 00:53:42,970

on TV your little a weekly contribution

1406

00:53:47,160 --> 00:53:45,249

micropayment they call it means that the

1407

00:53:48,900 --> 00:53:47,170

show continues thank you thank you very

1408

00:53:50,729 --> 00:53:48,910

much and if you enjoy listening to the

1409

00:53:53,039 --> 00:53:50,739

zone and they mean something to you and

1410

00:53:54,749 --> 00:53:53,049

you get something out of it maybe you

1411

00:53:57,239 --> 00:53:54,759

would think that a dollar a week or less

1412

00:53:58,799 --> 00:53:57,249

actually has 99 cents a week is worth it

1413

00:54:01,229 --> 00:53:58,809

for you to keep listening to the show

1414

00:54:03,420 --> 00:54:01,239

it's much appreciated and it means we

1415

00:54:06,059 --> 00:54:03,430

can do skeptical investigations i can

1416

00:54:08,870 --> 00:54:06,069

buy equipment for the reporters and so

1417

00:54:11,549 --> 00:54:08,880

on and it's nice to buy maynard lunch

1418

00:54:13,469 --> 00:54:11,559

anyway for this week this is Richard

1419

00:54:20,130 --> 00:54:13,479

Saunders signing off from the San

1420

00:54:23,519 --> 00:54:20,140

Francisco Bay Area California you've

1421

00:54:28,109 --> 00:54:23,529

been listening to the skeptic zone visit

1422

00:54:30,599 --> 00:54:28,119

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