

1
00:00:06,318 --> 00:00:12,980
welcome to the skeptic zone the podcast

2
00:00:09,480 --> 00:00:16,800
from Australia for science and reason

3
00:00:12,980 --> 00:00:19,278
yuria hosts Richard Saunders and Stefan

4
00:00:16,800 --> 00:00:19,278
Soyka

5
00:00:21,079 --> 00:00:28,199
Richard it's wonderful to be here again

6
00:00:23,910 --> 00:00:30,660
in the zone episode 19 and they said a

7
00:00:28,199 --> 00:00:32,759
wooden last past episode 19 oh this is

8
00:00:30,660 --> 00:00:35,250
episode 19 whoops no thanks that was

9
00:00:32,759 --> 00:00:37,170
about 18 wait are we showed them they

10
00:00:35,250 --> 00:00:39,030
didn't we we did and here we are back

11
00:00:37,170 --> 00:00:41,789
again it's great to be here what another

12
00:00:39,030 --> 00:00:44,429
another great show lined up to I reckon

13
00:00:41,789 --> 00:00:47,519
now I spoke to dr. Carolyn what now she

14
00:00:44,429 --> 00:00:48,899
studies parapsychology at the University

15
00:00:47,520 --> 00:00:50,520
of Edinburgh hang on you might have to

16
00:00:48,899 --> 00:00:53,210
explain that I don't have my Wikipedia

17
00:00:50,520 --> 00:00:54,960
in front of me a parapsychology what I

18
00:00:53,210 --> 00:00:57,329
thought you meant you wanted me to

19
00:00:54,960 --> 00:00:59,850
explain Edinburgh ah I said that needs a

20
00:00:57,329 --> 00:01:02,609
lot of explaining as a freaky locals

21
00:00:59,850 --> 00:01:04,680
there yeah parapsychology yes sort of

22
00:01:02,609 --> 00:01:07,019
looking scientifically at the the

23
00:01:04,680 --> 00:01:08,850
strange in the mysterious and she does a

24
00:01:07,019 --> 00:01:10,799
course about it a sort of a mail order

25
00:01:08,849 --> 00:01:12,658
or internet online course and we'll be

26
00:01:10,799 --> 00:01:14,849
finding out all about that so is that

27
00:01:12,659 --> 00:01:16,800
kind with a skeptical bent or with a bit

28
00:01:14,849 --> 00:01:18,959
of a semi believe event or a bit of a

29

00:01:16,799 --> 00:01:20,280
benign or was it a bit of everything

30
00:01:18,959 --> 00:01:23,219
like the objects that have an open mind

31
00:01:20,280 --> 00:01:25,739
the better now because she kind of

32
00:01:23,219 --> 00:01:28,230
follow subscribe to any of these things

33
00:01:25,739 --> 00:01:31,379
or is it just purely investigation it's

34
00:01:28,230 --> 00:01:33,540
more or less giving people a background

35
00:01:31,379 --> 00:01:35,219
about what parapsychology is all about

36
00:01:33,540 --> 00:01:37,620
using the scientific method of course

37
00:01:35,219 --> 00:01:39,750
excellent yeah excellent now that's

38
00:01:37,620 --> 00:01:42,109
followed by a grain of salt with Iran so

39
00:01:39,750 --> 00:01:44,609
give he's going to be looking at the

40
00:01:42,109 --> 00:01:47,250
victorian bushfires i would i would

41
00:01:44,609 --> 00:01:49,170
hazard a guess that pretty much everyone

42
00:01:47,250 --> 00:01:51,180
listening around the world would have

43
00:01:49,170 --> 00:01:54,329

heard about this well we had a great

44

00:01:51,180 --> 00:01:56,400

great disaster locally here but yes

45

00:01:54,329 --> 00:02:00,539

certainly the the news is spread like

46

00:01:56,400 --> 00:02:02,520

wildfire well partner yes after that I'm

47

00:02:00,540 --> 00:02:04,230

going to be chatting with Dwayne

48

00:02:02,519 --> 00:02:06,420

Hammacher he's the president of the

49

00:02:04,230 --> 00:02:09,269

Macquarie University skeptics I was

50

00:02:06,420 --> 00:02:11,068

there just the other day to be on their

51

00:02:09,269 --> 00:02:12,719

skeptics boo that they're open week at

52

00:02:11,068 --> 00:02:14,909

the Macquarie University and I must have

53

00:02:12,719 --> 00:02:16,469

bent about 50 spoon really would have

54

00:02:14,909 --> 00:02:17,909

been a bit of a celebrity guest there

55

00:02:16,469 --> 00:02:20,098

wouldn't you well that's what they said

56

00:02:17,909 --> 00:02:21,680

you know they're a good bunch X yeah I

57

00:02:20,098 --> 00:02:24,479

think I was there for one of your really

58
00:02:21,680 --> 00:02:26,040
early presentation that a great crowd

59
00:02:24,479 --> 00:02:28,049
yeah you there for one of my talks a

60
00:02:26,039 --> 00:02:30,479
great a great great great bunch of

61
00:02:28,050 --> 00:02:32,280
skeptics we have dr. rachy reports

62
00:02:30,479 --> 00:02:34,060
looking at the fun and games of the

63
00:02:32,280 --> 00:02:36,848
anti-vaccination loons I

64
00:02:34,060 --> 00:02:39,759
and learns what do you mean what we'll

65
00:02:36,848 --> 00:02:41,919
ask dr. 'he who shoot ellis does Oliver

66
00:02:39,759 --> 00:02:44,318
and wrap up the show we've got the think

67
00:02:41,919 --> 00:02:45,579
tank of course quite a popular segment

68
00:02:44,318 --> 00:02:47,259
from some of the reports we've been

69
00:02:45,580 --> 00:02:48,760
getting yeah we get people you mailing

70
00:02:47,259 --> 00:02:50,679
us wanting to be in the think tank

71
00:02:48,759 --> 00:02:52,598
unfortunately they're like in the United

72
00:02:50,680 --> 00:02:54,310
States so I say well if you want to fly

73
00:02:52,598 --> 00:02:57,369
over and join us in the club having an

74
00:02:54,310 --> 00:02:59,439
airfare and hotel bill won't fix now

75
00:02:57,370 --> 00:03:01,000
apart from that I mean if that's not

76
00:02:59,439 --> 00:03:03,789
enough my week's been taken up by

77
00:03:01,000 --> 00:03:05,919
helping one of our reporters dr. Karen

78
00:03:03,789 --> 00:03:07,389
stalls now who's now the editor of the

79
00:03:05,919 --> 00:03:09,399
skeptic magazine in putting that

80
00:03:07,389 --> 00:03:11,529
together are two great publication about

81
00:03:09,400 --> 00:03:12,819
to become even better about to become

82
00:03:11,530 --> 00:03:15,610
even better they'll be hitting our

83
00:03:12,818 --> 00:03:17,048
subscribers are next week I thinks we

84
00:03:15,610 --> 00:03:20,080
can you been using some high-tech

85
00:03:17,049 --> 00:03:21,700
software like indesign and will yes well

86

00:03:20,080 --> 00:03:23,469
it's pretty techie stuff Richard icky

87
00:03:21,699 --> 00:03:26,109
stuff notice I don't how you do it all

88
00:03:23,469 --> 00:03:28,150
this concern is east on the TV show the

89
00:03:26,110 --> 00:03:30,430
one is he's got the podcast happening

90
00:03:28,150 --> 00:03:32,620
the zone he's got the mag happening he's

91
00:03:30,430 --> 00:03:34,810
got the website how do you do it I don't

92
00:03:32,620 --> 00:03:36,640
think I do enough I don't think I do

93
00:03:34,810 --> 00:03:39,159
enough so look I tell you what I'm gonna

94
00:03:36,639 --> 00:03:40,899
go have a little lie down now maybe get

95
00:03:39,159 --> 00:03:43,419
some Reiki that's a good idea maybe take

96
00:03:40,900 --> 00:03:44,620
some hobo food yeah homeopathic remedies

97
00:03:43,419 --> 00:03:46,599
would be lovely for you may be a bit of

98
00:03:44,620 --> 00:03:49,030
gut flush bit of the old good old gut

99
00:03:46,599 --> 00:03:50,500
feeling cleansing 123 gut flusher exert

100
00:03:49,030 --> 00:03:52,299

we'll listen to the show and we'll come

101

00:03:50,500 --> 00:03:54,609

back no worries have a good nap Richard

102

00:03:52,299 --> 00:03:57,060

and our folks enjoy the program episode

103

00:03:54,609 --> 00:03:57,060

19

104

00:04:06,659 --> 00:04:13,389

dr. Carolyn wat is a senior lecturer of

105

00:04:09,818 --> 00:04:16,599

psychology and Edinburgh University she

106

00:04:13,389 --> 00:04:22,539

also specializes in parapsychology and

107

00:04:16,600 --> 00:04:25,330

runs an online course and we have

108

00:04:22,540 --> 00:04:27,040

Carolyn on the line now from M bruh good

109

00:04:25,329 --> 00:04:30,099

good morning is it or afternoon or

110

00:04:27,040 --> 00:04:32,020

evening good evening from Edinburgh and

111

00:04:30,100 --> 00:04:36,550

good morning from Sydney i love these

112

00:04:32,019 --> 00:04:39,399

time zones I'm very curious indeed about

113

00:04:36,550 --> 00:04:42,009

what you do there the parapsychology and

114

00:04:39,399 --> 00:04:44,829

first of all can you spend a moment in

115
00:04:42,009 --> 00:04:48,610
trying to dispel some of the myths and

116
00:04:44,829 --> 00:04:52,149
stereotypes around what you do mm-hmm

117
00:04:48,610 --> 00:04:55,479
and well I'm not a Ghostbuster and I'm

118
00:04:52,149 --> 00:04:58,239
an academic my job title is actually

119
00:04:55,478 --> 00:05:00,819
senior lecturer in psychology but my

120
00:04:58,240 --> 00:05:02,829
area of expertise is parapsychology so a

121
00:05:00,819 --> 00:05:05,469
lot of what I do is just regular you

122
00:05:02,829 --> 00:05:07,478
know I teach statistics I supervise

123
00:05:05,470 --> 00:05:11,590
students doing postgraduate degrees and

124
00:05:07,478 --> 00:05:13,329
undergraduate degrees and the research i

125
00:05:11,589 --> 00:05:15,369
do some of it is about psychology of

126
00:05:13,329 --> 00:05:17,529
belief in the paranormal which is pretty

127
00:05:15,370 --> 00:05:20,918
straightforward psychology and some of

128
00:05:17,529 --> 00:05:23,769
it is about testing the hypothesis that

129
00:05:20,918 --> 00:05:26,769
people have paranormal abilities so it's

130
00:05:23,769 --> 00:05:29,529
a bit of a mixture and it's never going

131
00:05:26,769 --> 00:05:31,389
out and sitting in a squizzle a haunted

132
00:05:29,529 --> 00:05:34,538
location waiting things to go bump in

133
00:05:31,389 --> 00:05:36,490
the night oh that's a video I do that

134
00:05:34,538 --> 00:05:38,379
sometimes and I'm still waiting for that

135
00:05:36,490 --> 00:05:40,930
bump to occur but sometimes I get out

136
00:05:38,379 --> 00:05:43,329
there and do that what when you say you

137
00:05:40,930 --> 00:05:44,918
do some of the testing man you if you're

138
00:05:43,329 --> 00:05:46,839
not waiting for things to go bump in the

139
00:05:44,918 --> 00:05:48,189
night exactly what sort of tests or

140
00:05:46,839 --> 00:05:52,629
examinations have you've been involved

141
00:05:48,189 --> 00:05:55,269
with well I mean I study that recently

142
00:05:52,629 --> 00:05:56,709
and finished is with a postgraduate

143

00:05:55,269 --> 00:05:59,560
student of mine where we're looking into

144
00:05:56,709 --> 00:06:01,989
the the claim of distance healing or

145
00:05:59,560 --> 00:06:06,009
psychic healing and we did a little

146
00:06:01,990 --> 00:06:09,668
trial with arthritis patients where we

147
00:06:06,009 --> 00:06:11,529
had a double-blinded design where the

148
00:06:09,668 --> 00:06:13,759
patients didn't know whether or not they

149
00:06:11,529 --> 00:06:15,589
were receiving distant healing

150
00:06:13,759 --> 00:06:17,990
and so there would be a test of the

151
00:06:15,589 --> 00:06:19,849
hypothesis that a person who claims that

152
00:06:17,990 --> 00:06:21,920
they can heal someone at a distance

153
00:06:19,850 --> 00:06:24,530
whether that actually has any effect

154
00:06:21,920 --> 00:06:28,550
when you ask that the patients in the

155
00:06:24,529 --> 00:06:30,500
trial to report their pain symptoms and

156
00:06:28,550 --> 00:06:32,300
their well-being are subject to report

157
00:06:30,500 --> 00:06:34,610

of the well-being so that's a sort of

158

00:06:32,300 --> 00:06:37,639

example the kind of thing that I've done

159

00:06:34,610 --> 00:06:41,629

recently do you find that many people

160

00:06:37,639 --> 00:06:44,479

who are involved these sort of tests

161

00:06:41,629 --> 00:06:46,670

especially students are somewhat hopeful

162

00:06:44,480 --> 00:06:48,860

or optimistic of a positive outcome or

163

00:06:46,670 --> 00:06:52,129

are they simply ready to accept the

164

00:06:48,860 --> 00:06:54,650

outcome be it positive or negative you

165

00:06:52,129 --> 00:06:56,329

mean notnot volunteers interpreted in

166

00:06:54,649 --> 00:07:00,079

experiments for the actual students who

167

00:06:56,329 --> 00:07:01,579

are running the studies yeah yeah well

168

00:07:00,079 --> 00:07:03,769

let me let me reflect rephrase that

169

00:07:01,579 --> 00:07:06,829

maybe both I mean maybe you get people

170

00:07:03,769 --> 00:07:09,669

who are volunteering who also have

171

00:07:06,829 --> 00:07:12,680

preconceptions and expect one thing I

172
00:07:09,670 --> 00:07:15,199
would say the volunteers they tend to be

173
00:07:12,680 --> 00:07:16,759
curious but they're curious about the

174
00:07:15,199 --> 00:07:19,519
paranormal limit they may have had the

175
00:07:16,759 --> 00:07:22,699
odd experience but they don't generally

176
00:07:19,519 --> 00:07:24,500
regard themselves as psychic so that we

177
00:07:22,699 --> 00:07:26,899
don't work with people who come to

178
00:07:24,500 --> 00:07:28,490
edinburgh and say I'm psychic let me

179
00:07:26,899 --> 00:07:30,829
show you how psychic i am under

180
00:07:28,490 --> 00:07:33,530
controlled conditions so we don't work

181
00:07:30,829 --> 00:07:36,199
with us to person and the students are

182
00:07:33,529 --> 00:07:39,559
they're very very much I mean some

183
00:07:36,199 --> 00:07:41,899
students and I think that the the best

184
00:07:39,560 --> 00:07:43,399
approach to have is this on the proper

185
00:07:41,899 --> 00:07:45,889
scientific approach which should be

186
00:07:43,399 --> 00:07:47,569
questioning you know or not that's a

187
00:07:45,889 --> 00:07:49,069
skeptical approach actually it's

188
00:07:47,569 --> 00:07:51,620
questioning it's just saying well I'm

189
00:07:49,069 --> 00:07:54,230
going to test this hypothesis what does

190
00:07:51,620 --> 00:07:55,910
the data tell us and that's just

191
00:07:54,230 --> 00:07:58,580
straight for science as far as I'm

192
00:07:55,910 --> 00:08:01,189
concerned you're absolutely right do you

193
00:07:58,579 --> 00:08:04,819
suffer doing what you do there do you

194
00:08:01,189 --> 00:08:06,620
suffer the jibes and jokes from any

195
00:08:04,819 --> 00:08:08,599
other people or Department saying you're

196
00:08:06,620 --> 00:08:11,000
the molder of the veteran Barry

197
00:08:08,600 --> 00:08:14,300
University of X file jokes will silly

198
00:08:11,000 --> 00:08:15,589
things like that no not from my

199
00:08:14,300 --> 00:08:17,990
colleagues they probably know better

200

00:08:15,589 --> 00:08:20,239
than to try to do that and you do get

201
00:08:17,990 --> 00:08:21,889
the odds corny joke about oh didn't you

202
00:08:20,240 --> 00:08:24,379
see that coming

203
00:08:21,889 --> 00:08:27,710
but no I mean I think that those who

204
00:08:24,379 --> 00:08:29,718
know what what I do respect the work

205
00:08:27,709 --> 00:08:32,509
they do they can see that you were

206
00:08:29,718 --> 00:08:35,179
attempting to do proper science in a

207
00:08:32,509 --> 00:08:36,950
responsible way and it's a very good

208
00:08:35,179 --> 00:08:38,929
subject parapsychology is a great

209
00:08:36,950 --> 00:08:41,329
subject for teaching students about

210
00:08:38,929 --> 00:08:42,799
methodology because if you're going to

211
00:08:41,328 --> 00:08:45,500
test the claim that there's this

212
00:08:42,799 --> 00:08:47,328
supposed ability to communicate through

213
00:08:45,500 --> 00:08:48,620
soft alone you've got to be really

214
00:08:47,328 --> 00:08:51,620

careful about how you design your

215

00:08:48,620 --> 00:08:53,600

experiments so I think students can

216

00:08:51,620 --> 00:08:56,720

layer not learn a lot about methodology

217

00:08:53,600 --> 00:08:59,810

in science through testing paranormal

218

00:08:56,720 --> 00:09:03,019

hypotheses that's very interesting you

219

00:08:59,809 --> 00:09:05,149

should say that because when I'm not

220

00:09:03,019 --> 00:09:08,149

busily working on the skeptics oh and of

221

00:09:05,149 --> 00:09:09,828

course I'm doing a show for students

222

00:09:08,149 --> 00:09:11,389

school show here in Australia called

223

00:09:09,828 --> 00:09:13,250

mystery investigators and one of the

224

00:09:11,389 --> 00:09:16,189

tests we do live on stage for high

225

00:09:13,250 --> 00:09:19,159

school students to demonstrate how a

226

00:09:16,190 --> 00:09:21,529

double-blind test works is we use the

227

00:09:19,159 --> 00:09:25,338

the claim of water dowsing or water

228

00:09:21,528 --> 00:09:26,389

divining and the kids are really get a

229
00:09:25,339 --> 00:09:28,760
kick out of it because it's a

230
00:09:26,389 --> 00:09:30,470
fascinating claim the sticks wobble and

231
00:09:28,759 --> 00:09:32,000
move and before they know what they're

232
00:09:30,470 --> 00:09:34,910
being taught how to do a double-blind

233
00:09:32,000 --> 00:09:36,110
test so I I think I think personally and

234
00:09:34,909 --> 00:09:37,789
I guess I'm biased like this but I

235
00:09:36,110 --> 00:09:40,100
really think it's a great way to teach

236
00:09:37,789 --> 00:09:42,969
science because you've got the hook

237
00:09:40,100 --> 00:09:45,409
there which engages the imagination

238
00:09:42,970 --> 00:09:47,810
definitely it's it's something that just

239
00:09:45,409 --> 00:09:50,600
creates bums on seats as you would say

240
00:09:47,809 --> 00:09:52,909
students love it and and the students in

241
00:09:50,600 --> 00:09:54,528
my course that I teach a final year

242
00:09:52,909 --> 00:09:56,480
undergraduate course in parapsychology

243
00:09:54,528 --> 00:09:58,909
and although it's not designed as a

244
00:09:56,480 --> 00:09:59,990
methodology course they all come out of

245
00:09:58,909 --> 00:10:02,088
it saying that they've actually learned

246
00:09:59,990 --> 00:10:03,470
you know incidentally they've learned a

247
00:10:02,089 --> 00:10:05,260
huge amount about methodology in

248
00:10:03,470 --> 00:10:08,000
psychology but by studying

249
00:10:05,259 --> 00:10:09,649
parapsychology and and what you're

250
00:10:08,000 --> 00:10:12,019
saying about blind methods apparently

251
00:10:09,649 --> 00:10:14,448
and I'm not a historian but average

252
00:10:12,019 --> 00:10:18,070
historians who said that the the first

253
00:10:14,448 --> 00:10:20,588
use of blind methods in science was in

254
00:10:18,070 --> 00:10:23,750
testing the claim of mesmerist seeeeee

255
00:10:20,589 --> 00:10:25,910
that they could influence a patient at a

256
00:10:23,750 --> 00:10:28,309
distance and that they did this by

257

00:10:25,909 --> 00:10:30,289
putting a cotton or a barrier between

258
00:10:28,309 --> 00:10:32,989
the mesmerist and the patient and that

259
00:10:30,289 --> 00:10:35,339
was a claim of a paranormal influence

260
00:10:32,990 --> 00:10:37,680
and it just shows you that and

261
00:10:35,340 --> 00:10:39,540
it can push push methodology no

262
00:10:37,679 --> 00:10:42,449
straightforward things like placebo

263
00:10:39,539 --> 00:10:44,849
effects and using blind methods can

264
00:10:42,450 --> 00:10:48,330
arise out of testing unusual or

265
00:10:44,850 --> 00:10:51,960
anomalous claims absolutely and as I

266
00:10:48,330 --> 00:10:53,580
said before I think it's so engaging I

267
00:10:51,960 --> 00:10:55,920
mean there's a certain percentage of the

268
00:10:53,580 --> 00:10:58,350
population yourself and myself certainly

269
00:10:55,919 --> 00:11:00,719
included and what I find many students

270
00:10:58,350 --> 00:11:03,149
for whom this topic is endlessly

271
00:11:00,720 --> 00:11:04,680

fascinating and I note that in a recent

272

00:11:03,149 --> 00:11:07,230
interview you did for the skeptic

273

00:11:04,679 --> 00:11:08,939
magazine here in Australia you quoted as

274

00:11:07,230 --> 00:11:12,330
saying that it's just so interesting

275

00:11:08,940 --> 00:11:14,610
what you do well you never know what's

276

00:11:12,330 --> 00:11:17,190
going to happen next I mean a lot of it

277

00:11:14,610 --> 00:11:19,649
is is normal academic stuff like looking

278

00:11:17,190 --> 00:11:21,720
at exam papers and and meeting with

279

00:11:19,649 --> 00:11:23,399
students but you get phone calls from

280

00:11:21,720 --> 00:11:24,720
people who having strange things

281

00:11:23,399 --> 00:11:26,220
happening in their house you have to try

282

00:11:24,720 --> 00:11:29,850
to discuss with them what might be going

283

00:11:26,220 --> 00:11:31,649
on and you get a lot of approaches from

284

00:11:29,850 --> 00:11:33,269
the media you know because it's

285

00:11:31,649 --> 00:11:34,889
interesting from that point of view so

286
00:11:33,269 --> 00:11:38,610
those communication with members of the

287
00:11:34,889 --> 00:11:40,769
public directly and with the through the

288
00:11:38,610 --> 00:11:43,500
media to the public which I think so an

289
00:11:40,769 --> 00:11:44,909
important part of my job now can you

290
00:11:43,500 --> 00:11:47,340
tell me a little bit about how your

291
00:11:44,909 --> 00:11:48,839
online course works and what it's like

292
00:11:47,340 --> 00:11:50,610
to have students from all over the world

293
00:11:48,840 --> 00:11:54,090
including I must say some here in

294
00:11:50,610 --> 00:11:56,759
Australia yeah and this was my big

295
00:11:54,090 --> 00:11:59,190
project last year I sort of developed

296
00:11:56,759 --> 00:12:00,809
this course from from out of nothing and

297
00:11:59,190 --> 00:12:03,930
never having done anything like this

298
00:12:00,809 --> 00:12:05,399
before and it's it's a it's an open

299
00:12:03,929 --> 00:12:07,859
studies course which means that you

300
00:12:05,399 --> 00:12:11,189
don't need to have any qualifications to

301
00:12:07,860 --> 00:12:13,080
join you also do not receive any

302
00:12:11,190 --> 00:12:15,150
qualification from taking part in the

303
00:12:13,080 --> 00:12:18,900
course so it's for personal education or

304
00:12:15,149 --> 00:12:20,939
personal interest only and you come on

305
00:12:18,899 --> 00:12:23,669
so that our website and you can register

306
00:12:20,940 --> 00:12:26,490
for the course online and then the

307
00:12:23,669 --> 00:12:28,199
course materials of course runs over 11

308
00:12:26,490 --> 00:12:30,180
weeks the course materials are all

309
00:12:28,200 --> 00:12:32,670
presented on what we call virtual

310
00:12:30,179 --> 00:12:34,259
learning environment that's and the

311
00:12:32,669 --> 00:12:37,019
platform that they had Maria university

312
00:12:34,259 --> 00:12:39,210
uses and the lovely thing about it is

313
00:12:37,019 --> 00:12:40,500
that a that you can have people from all

314

00:12:39,210 --> 00:12:42,389
around the world which i think is

315
00:12:40,500 --> 00:12:44,309
fantastic although I have to admit I

316
00:12:42,389 --> 00:12:46,620
it's biased towards English language and

317
00:12:44,309 --> 00:12:48,659
it you've got to be able to speak

318
00:12:46,620 --> 00:12:49,230
English you've gotta be semi computer

319
00:12:48,659 --> 00:12:51,240
literate

320
00:12:49,230 --> 00:12:54,300
in order to be able to download files

321
00:12:51,240 --> 00:12:57,480
and so on and but it also allows you to

322
00:12:54,299 --> 00:13:00,329
abandon the usual lecture format which I

323
00:12:57,480 --> 00:13:02,700
think can be quite passive and boring

324
00:13:00,330 --> 00:13:04,350
for students even the most interesting

325
00:13:02,700 --> 00:13:07,620
lecturer it's sort of one-way

326
00:13:04,350 --> 00:13:08,639
interaction and with an online course

327
00:13:07,620 --> 00:13:10,950
you can have all sorts of different

328
00:13:08,639 --> 00:13:13,319

materials so I've got interviews with

329

00:13:10,950 --> 00:13:15,750

experts I've got self-test two quizzes

330

00:13:13,320 --> 00:13:19,350

I've got downloads of journal articles

331

00:13:15,750 --> 00:13:20,730

I've got book chapters so there are lots

332

00:13:19,350 --> 00:13:22,800

of different kinds of materials that you

333

00:13:20,730 --> 00:13:24,750

can use to help engage the students

334

00:13:22,799 --> 00:13:26,669

probably the best thing the students

335

00:13:24,750 --> 00:13:29,129

like is there discussion groups which

336

00:13:26,669 --> 00:13:30,629

are just basic vlogs and each week

337

00:13:29,129 --> 00:13:33,779

there's a themed discussion group and

338

00:13:30,629 --> 00:13:35,730

students post an essay or a soft starter

339

00:13:33,779 --> 00:13:37,319

discussion and then they all discuss it

340

00:13:35,730 --> 00:13:39,509

amongst themselves so they actually

341

00:13:37,320 --> 00:13:41,400

learn a lot from considering what each

342

00:13:39,509 --> 00:13:43,470

other is saying and perhaps creating

343
00:13:41,399 --> 00:13:45,870
each other if someone says something or

344
00:13:43,470 --> 00:13:48,480
raises a question so it's a wonderful

345
00:13:45,870 --> 00:13:51,330
way of engaging with the subject in with

346
00:13:48,480 --> 00:13:54,120
a lot of variety of learning materials

347
00:13:51,330 --> 00:13:58,259
and I imagine that you also learn a lot

348
00:13:54,120 --> 00:14:00,120
from your students yes I think it's it's

349
00:13:58,259 --> 00:14:01,649
a sort of a reminder of the different

350
00:14:00,120 --> 00:14:04,070
perspectives that people are bringing to

351
00:14:01,649 --> 00:14:06,299
the subject and the students themselves

352
00:14:04,070 --> 00:14:08,280
some of them I mean actually my first

353
00:14:06,299 --> 00:14:10,079
course ran just before Christmas and I

354
00:14:08,279 --> 00:14:12,299
had a little question here at the end of

355
00:14:10,080 --> 00:14:13,800
it and I was asking them what their

356
00:14:12,299 --> 00:14:15,329
beliefs were about the paranormal

357
00:14:13,799 --> 00:14:17,849
because I really didn't know who my

358
00:14:15,330 --> 00:14:20,129
customers were and it was interesting it

359
00:14:17,850 --> 00:14:22,100
was a it was an even balance of skeptics

360
00:14:20,129 --> 00:14:25,470
what you call skeptics and believers

361
00:14:22,100 --> 00:14:27,480
some people were quite strong proponents

362
00:14:25,470 --> 00:14:30,180
but they were still willing to listen to

363
00:14:27,480 --> 00:14:32,070
alternative viewpoints and there were

364
00:14:30,179 --> 00:14:34,649
other people who were strong counter

365
00:14:32,070 --> 00:14:35,910
advocates who thankfully so far have

366
00:14:34,649 --> 00:14:37,470
been respectful of other people's

367
00:14:35,909 --> 00:14:40,500
opinions even if they don't agree with

368
00:14:37,470 --> 00:14:42,600
them so it's it's it's very nice to see

369
00:14:40,500 --> 00:14:43,860
that interaction and to learn you know

370
00:14:42,600 --> 00:14:47,159
what assumptions other people are

371

00:14:43,860 --> 00:14:49,139
bringing to the subject I'm I imagine it

372
00:14:47,159 --> 00:14:52,019
is and I imagine there as you say there

373
00:14:49,139 --> 00:14:53,909
are people coming on to somehow confirm

374
00:14:52,019 --> 00:14:57,689
what they already think they know in

375
00:14:53,909 --> 00:15:00,779
some respects and do you have you

376
00:14:57,690 --> 00:15:02,160
encountered the case where you'd get a

377
00:15:00,779 --> 00:15:04,769
very strong beetle

378
00:15:02,159 --> 00:15:07,049
eva coming along and being somewhat

379
00:15:04,769 --> 00:15:10,078
crestfallen or disbelieving or

380
00:15:07,049 --> 00:15:13,198
dismissive of the results if they're

381
00:15:10,078 --> 00:15:15,088
negative well I had one student who was

382
00:15:13,198 --> 00:15:17,578
disappointed because he thought the

383
00:15:15,089 --> 00:15:20,129
course would teach him how to test is

384
00:15:17,578 --> 00:15:23,758
like a claimant's so he wanted to be

385
00:15:20,129 --> 00:15:25,800

given a sort of practical guide as it

386

00:15:23,759 --> 00:15:28,709

were to how you taste people who claim

387

00:15:25,799 --> 00:15:30,299

certain psychic abilities and the course

388

00:15:28,708 --> 00:15:32,219

is actually much broader than that so

389

00:15:30,299 --> 00:15:34,438

that's covered in one week but not in

390

00:15:32,220 --> 00:15:38,329

any comprehensive way and I've had a

391

00:15:34,438 --> 00:15:40,679

coupla students who said they were a bit

392

00:15:38,328 --> 00:15:42,419

well they were a bit disappointed

393

00:15:40,679 --> 00:15:44,909

because the literature was less

394

00:15:42,419 --> 00:15:46,588

clear-cut than they thought so they

395

00:15:44,909 --> 00:15:49,769

thought that there was strong evidence

396

00:15:46,589 --> 00:15:51,120

for psy and actually the material that

397

00:15:49,769 --> 00:15:53,278

I'm showing them sure was that there's

398

00:15:51,120 --> 00:15:55,799

debate about that and I wouldn't say

399

00:15:53,278 --> 00:15:58,259

they were disappointed but they're just

400
00:15:55,799 --> 00:15:59,969
sort of brought up shorts and they sort

401
00:15:58,259 --> 00:16:02,699
of realized they didn't have the full

402
00:15:59,970 --> 00:16:04,259
picture before yes that that wouldn't

403
00:16:02,698 --> 00:16:08,159
surprise me at all do you find that

404
00:16:04,259 --> 00:16:10,740
there is a great misconception about the

405
00:16:08,159 --> 00:16:12,688
whole area and well if you get

406
00:16:10,740 --> 00:16:15,810
misconceptions on both sides of course

407
00:16:12,688 --> 00:16:17,519
because sometimes skeptics who who

408
00:16:15,809 --> 00:16:19,318
haven't familiarize themselves with

409
00:16:17,519 --> 00:16:21,269
literature you know will make sweeping

410
00:16:19,318 --> 00:16:23,639
statements such as you know all the

411
00:16:21,269 --> 00:16:26,278
methodologies poor or there's no

412
00:16:23,639 --> 00:16:28,680
positive results anywhere and in fact

413
00:16:26,278 --> 00:16:30,120
there are some quite well done studies

414
00:16:28,679 --> 00:16:32,370
that have come up with positive results

415
00:16:30,120 --> 00:16:34,679
and then the question is then well how

416
00:16:32,370 --> 00:16:36,389
do you interpret those results so

417
00:16:34,679 --> 00:16:38,519
there's their strong statements made on

418
00:16:36,389 --> 00:16:41,100
either side that some believers have

419
00:16:38,519 --> 00:16:42,870
perhaps it been misled by some some

420
00:16:41,100 --> 00:16:46,409
parapsychologists who've overstated the

421
00:16:42,870 --> 00:16:49,259
case and I just feel that for my point

422
00:16:46,409 --> 00:16:50,490
of view it's certainly not an easy

423
00:16:49,259 --> 00:16:52,438
answer to the question what's the

424
00:16:50,490 --> 00:16:54,899
evidence for sigh I don't think the

425
00:16:52,438 --> 00:16:57,480
evidence is there to provide the answer

426
00:16:54,899 --> 00:16:59,490
yet right that that's an interesting

427
00:16:57,480 --> 00:17:02,459
that's an interesting way to put it now

428

00:16:59,490 --> 00:17:04,288
is it from your point of view just

429
00:17:02,458 --> 00:17:07,109
getting back to the online aspects of it

430
00:17:04,288 --> 00:17:09,480
is it a really successful way to teach

431
00:17:07,109 --> 00:17:11,788
in your opinion or I mean I guess it's

432
00:17:09,480 --> 00:17:14,759
relatively new this whole approach but

433
00:17:11,788 --> 00:17:15,720
we are getting on in the in this decade

434
00:17:14,759 --> 00:17:17,939
so it's it's no

435
00:17:15,720 --> 00:17:19,769
thing to novel do you find it being

436
00:17:17,939 --> 00:17:22,919
quite successful for you at the moment I

437
00:17:19,769 --> 00:17:25,500
said yes it is the first course sold out

438
00:17:22,919 --> 00:17:28,730
overnight so it was fully booked within

439
00:17:25,500 --> 00:17:30,990
24 hours of it being advertised the

440
00:17:28,730 --> 00:17:34,200
university I think it's the way for the

441
00:17:30,990 --> 00:17:35,788
future and certainly Edinburgh were not

442
00:17:34,200 --> 00:17:38,250

quite up to speed with online learning

443

00:17:35,788 --> 00:17:39,750

yet there's I still get the feeling and

444

00:17:38,250 --> 00:17:42,750

when I was developing the course I felt

445

00:17:39,750 --> 00:17:46,319

like a pioneer which shouldn't really be

446

00:17:42,750 --> 00:17:50,519

in any or 2009 and you know this should

447

00:17:46,319 --> 00:17:53,009

be normal and it's it over a lot of

448

00:17:50,519 --> 00:17:54,750

people had to learn how to make this

449

00:17:53,009 --> 00:17:57,900

course happen you know it wasn't

450

00:17:54,750 --> 00:17:59,819

straight forward but to me it's the

451

00:17:57,900 --> 00:18:02,850

future it's it's sort of saves a lot of

452

00:17:59,819 --> 00:18:05,220

resources you know you can learn and

453

00:18:02,849 --> 00:18:08,369

have access to material without the

454

00:18:05,220 --> 00:18:10,890

travel without using the lecture

455

00:18:08,369 --> 00:18:13,079

theatres and so on and you can do it at

456

00:18:10,890 --> 00:18:15,960

your own time a time when when suits you

457

00:18:13,079 --> 00:18:18,720

so to me is the way that future

458

00:18:15,960 --> 00:18:20,940

education should happen now my course is

459

00:18:18,720 --> 00:18:24,390

non-accredited which means that I don't

460

00:18:20,940 --> 00:18:26,370

mark any assessments and if it was to be

461

00:18:24,390 --> 00:18:28,230

an accredited course then there would be

462

00:18:26,369 --> 00:18:30,658

more engagement with the students they

463

00:18:28,230 --> 00:18:32,370

would have to submit essays for example

464

00:18:30,659 --> 00:18:33,659

and I'd have to mark them so they'd

465

00:18:32,369 --> 00:18:35,849

still be some of the traditional

466

00:18:33,659 --> 00:18:37,500

assessment would have to take place but

467

00:18:35,849 --> 00:18:39,209

you'll be much more flexible because

468

00:18:37,500 --> 00:18:40,710

that could be sent in online rather than

469

00:18:39,210 --> 00:18:43,919

the student pretty and your pigeon hole

470

00:18:40,710 --> 00:18:46,380

so for me it's the the way ahead oh I

471
00:18:43,919 --> 00:18:49,549
totally agree in fact even right now

472
00:18:46,380 --> 00:18:52,440
here we are chatting with each other and

473
00:18:49,548 --> 00:18:54,808
its face to face because we're both on

474
00:18:52,440 --> 00:18:57,450
our each other's video screens as it

475
00:18:54,808 --> 00:19:00,058
were yeah it's wonderful isn't it that's

476
00:18:57,450 --> 00:19:03,659
quite right what my internet connections

477
00:19:00,058 --> 00:19:07,048
continues to be reliable well so far so

478
00:19:03,659 --> 00:19:08,400
good now finally Caroline this has been

479
00:19:07,048 --> 00:19:10,019
wonderful to chat with you it is a

480
00:19:08,400 --> 00:19:13,710
fascinating topic I mean it's one of the

481
00:19:10,019 --> 00:19:16,200
reasons I do what I do because I I can't

482
00:19:13,710 --> 00:19:17,730
see how I could ever be bored with this

483
00:19:16,200 --> 00:19:20,190
topic there's always something

484
00:19:17,730 --> 00:19:23,480
interesting on you and even if it

485

00:19:20,190 --> 00:19:25,500
largely does boil down to more or less a

486
00:19:23,480 --> 00:19:27,179
psychology because you are looking at

487
00:19:25,500 --> 00:19:29,240
the way people believe things and why

488
00:19:27,179 --> 00:19:32,800
they believe them and why they've been

489
00:19:29,240 --> 00:19:35,630
led to look at things a certain way so I

490
00:19:32,799 --> 00:19:38,000
I just love the fact that there are

491
00:19:35,630 --> 00:19:41,000
people like you out there exploring this

492
00:19:38,000 --> 00:19:45,470
and online what could be better if my

493
00:19:41,000 --> 00:19:47,269
listeners are now so keen to to join

494
00:19:45,470 --> 00:19:49,069
your course and join the queue for your

495
00:19:47,269 --> 00:19:51,799
course I imagine how can they get some

496
00:19:49,069 --> 00:19:54,349
more information and well if they go to

497
00:19:51,799 --> 00:19:56,899
the curler parapsychology unit website

498
00:19:54,349 --> 00:19:59,119
then they'll find some pages about the

499
00:19:56,900 --> 00:20:02,180

course on there and a link to the

500

00:19:59,119 --> 00:20:03,889

registration page so just look look for

501

00:20:02,180 --> 00:20:06,410

us on Google you should find us quite

502

00:20:03,890 --> 00:20:09,020

easily and I think I think you're quite

503

00:20:06,410 --> 00:20:11,180

right it's it's whether or not sigh

504

00:20:09,019 --> 00:20:13,430

exists the fact is that lots of people

505

00:20:11,180 --> 00:20:14,779

believe in the paranormal and lots of

506

00:20:13,430 --> 00:20:17,539

people have experiences that they think

507

00:20:14,779 --> 00:20:19,490

a paranormal yeah therefore it's only

508

00:20:17,539 --> 00:20:21,139

it's a kind of a no-brainer that people

509

00:20:19,490 --> 00:20:22,910

should be investigating these questions

510

00:20:21,140 --> 00:20:25,400

both from a psychology point of view and

511

00:20:22,910 --> 00:20:28,220

at least give some consideration to the

512

00:20:25,400 --> 00:20:29,780

paranormal issue as well well if it

513

00:20:28,220 --> 00:20:32,299

wasn't for this whole topic I'd have to

514
00:20:29,779 --> 00:20:33,829
go back and do web pages for one of our

515
00:20:32,299 --> 00:20:36,879
large banks which I used to do and I'd

516
00:20:33,829 --> 00:20:39,589
rather do this believe me absolutely

517
00:20:36,880 --> 00:20:41,390
well Caroline thank you very much for

518
00:20:39,589 --> 00:20:44,500
talking to the skeptic zone all the way

519
00:20:41,390 --> 00:20:49,270
over there in Scotland it's my pleasure

520
00:20:44,500 --> 00:20:49,269
enjoy the rest of your day Oh she'll

521
00:20:58,839 --> 00:21:05,649
let's all take this with a grain of salt

522
00:21:01,630 --> 00:21:05,650
he's around second

523
00:21:08,049 --> 00:21:13,579
hello this is a Rancic of taking life

524
00:21:10,700 --> 00:21:15,769
with a grain of salt as our listeners

525
00:21:13,579 --> 00:21:17,149
probably all know the state of Victoria

526
00:21:15,769 --> 00:21:19,700
in southern Australia was gripped by

527
00:21:17,150 --> 00:21:21,769
bush fires earlier this month the bush

528
00:21:19,700 --> 00:21:23,470
fires were unprecedented in the severity

529
00:21:21,769 --> 00:21:27,079
and the amount of damage they caused

530
00:21:23,470 --> 00:21:29,000
more than 200 people died at least 1,800

531
00:21:27,079 --> 00:21:31,189
homes have been lost and two towns were

532
00:21:29,000 --> 00:21:34,430
completely razed in what was Australia's

533
00:21:31,190 --> 00:21:36,289
worst peacetime disaster a disaster of

534
00:21:34,430 --> 00:21:38,420
this magnitude is sure to raise some

535
00:21:36,289 --> 00:21:40,399
questions of culpability in the blame

536
00:21:38,420 --> 00:21:43,160
game started while some fires were still

537
00:21:40,400 --> 00:21:45,620
raging some of those blamed were either

538
00:21:43,160 --> 00:21:47,180
obviously at fault such as the arsonist

539
00:21:45,619 --> 00:21:49,759
who started at least some of the files

540
00:21:47,180 --> 00:21:51,529
or obviously not at fault such as the

541
00:21:49,759 --> 00:21:53,779
Victorian Parliament which was blamed by

542

00:21:51,529 --> 00:21:55,700
some religious whack job of causing the

543
00:21:53,779 --> 00:21:58,490
fires by decriminalizing abortion in

544
00:21:55,700 --> 00:22:01,430
Victoria yet for others the case is not

545
00:21:58,490 --> 00:22:03,170
so clear among those whose potential or

546
00:22:01,430 --> 00:22:05,269
responsibility was mentioned and should

547
00:22:03,170 --> 00:22:07,850
be considered I will noted in particular

548
00:22:05,269 --> 00:22:10,970
the environmental movement the residents

549
00:22:07,849 --> 00:22:12,709
themselves and global warming it could

550
00:22:10,970 --> 00:22:15,230
take experts many months to come to some

551
00:22:12,710 --> 00:22:17,210
conclusions as to the causes even then

552
00:22:15,230 --> 00:22:19,430
the answers are unlikely to be clear-cut

553
00:22:17,210 --> 00:22:21,170
or show one of those mentioned as

554
00:22:19,430 --> 00:22:23,420
responsible to the exclusion of the

555
00:22:21,170 --> 00:22:25,850
others so any attempt by me to pass

556
00:22:23,420 --> 00:22:27,440

judgement would be ill conceived are

557

00:22:25,849 --> 00:22:29,359

therefore do not intend to come to any

558

00:22:27,440 --> 00:22:32,960

conclusions just to raise some questions

559

00:22:29,359 --> 00:22:34,789

about some of the claims made the case

560

00:22:32,960 --> 00:22:36,500

for the culpability of the environmental

561

00:22:34,789 --> 00:22:38,210

movement is based around to fire

562

00:22:36,500 --> 00:22:40,819

management activities that can be

563

00:22:38,210 --> 00:22:44,480

undertaken in bush areas clearing and

564

00:22:40,819 --> 00:22:46,429

fuel reduction burning clearing is the

565

00:22:44,480 --> 00:22:48,019

removal of fuel materials such as trees

566

00:22:46,430 --> 00:22:50,690

and shrubs from areas surrounding

567

00:22:48,019 --> 00:22:52,639

properties to be protected the scale of

568

00:22:50,690 --> 00:22:55,370

clearing can range from removing trees

569

00:22:52,640 --> 00:22:57,020

to overhanging parts of a house through

570

00:22:55,369 --> 00:22:59,509

the creation of a clear area with a

571
00:22:57,019 --> 00:23:01,069
radius of two tree heights to clear

572
00:22:59,509 --> 00:23:04,309
failing acres of land around the

573
00:23:01,069 --> 00:23:05,809
property fuel reduction burning is the

574
00:23:04,309 --> 00:23:08,480
process of using favourable conditions

575
00:23:05,809 --> 00:23:10,159
such as cold days with no wind to burn

576
00:23:08,480 --> 00:23:13,130
the leaves branches and bark that

577
00:23:10,160 --> 00:23:14,750
accumulate under trees because trees are

578
00:23:13,130 --> 00:23:17,270
slower to catch fire than this dry

579
00:23:14,750 --> 00:23:18,109
material files are less likely to start

580
00:23:17,269 --> 00:23:20,660
in fuel reduce

581
00:23:18,109 --> 00:23:22,308
areas and files that do not have the

582
00:23:20,660 --> 00:23:26,058
benefit of this fuel are likely to be

583
00:23:22,308 --> 00:23:27,529
easier to control the claim that puts

584
00:23:26,058 --> 00:23:28,789
the environmental movement in the hot

585
00:23:27,529 --> 00:23:30,649
seat is that their political

586
00:23:28,789 --> 00:23:32,869
representatives the Australian Greens

587
00:23:30,650 --> 00:23:34,790
have used their political power to

588
00:23:32,869 --> 00:23:36,469
prevent residents in thick bush areas

589
00:23:34,789 --> 00:23:38,569
from clearing the land around their

590
00:23:36,470 --> 00:23:41,079
properties and to stop the authorities

591
00:23:38,569 --> 00:23:43,669
from conducting fuel reduction burning

592
00:23:41,079 --> 00:23:45,619
opinion pieces letters and calls to

593
00:23:43,670 --> 00:23:47,630
radio talk shows stop blaming the Greens

594
00:23:45,619 --> 00:23:49,428
appeared in Australian media as early as

595
00:23:47,630 --> 00:23:51,980
the Monday following Black Saturday and

596
00:23:49,429 --> 00:23:54,100
continued as the death toll rose and the

597
00:23:51,980 --> 00:23:57,079
enormity of the situation became clear

598
00:23:54,099 --> 00:23:58,879
one particularly vocal critic was a

599

00:23:57,079 --> 00:24:01,220
resident who was fined thousands of

600
00:23:58,880 --> 00:24:02,900
dollars by the local council after he

601
00:24:01,220 --> 00:24:04,579
ignored their bylaws and cleared the

602
00:24:02,900 --> 00:24:08,000
land around his property which then

603
00:24:04,579 --> 00:24:10,369
survived the fires on the face of it the

604
00:24:08,000 --> 00:24:12,740
criticism seems to be justified but a

605
00:24:10,369 --> 00:24:14,989
few questions come up the two most

606
00:24:12,740 --> 00:24:16,759
important ones in my opinion or whether

607
00:24:14,990 --> 00:24:19,069
the claims are actually true beyond a

608
00:24:16,759 --> 00:24:20,569
few anecdotes and weather clearing and

609
00:24:19,069 --> 00:24:23,539
fuel reduction burning would have made a

610
00:24:20,569 --> 00:24:25,609
significant difference to establish that

611
00:24:23,539 --> 00:24:27,440
the claims are true a pattern of

612
00:24:25,609 --> 00:24:30,079
refusing permission to perform clearing

613
00:24:27,440 --> 00:24:31,700

needs to be shown such a pattern would

614

00:24:30,079 --> 00:24:33,649

need to also be different from the past

615

00:24:31,700 --> 00:24:35,720

in which the greens were not as

616

00:24:33,650 --> 00:24:38,419

politically powerful as they are now in

617

00:24:35,720 --> 00:24:40,640

particular the laws and regulations will

618

00:24:38,419 --> 00:24:42,350

need to have either changed or more

619

00:24:40,640 --> 00:24:44,509

stringently enforced in recent times

620

00:24:42,349 --> 00:24:47,240

then when the towns affected by the bush

621

00:24:44,509 --> 00:24:49,669

fires were founded that last point is

622

00:24:47,240 --> 00:24:52,308

crucial we know the residents of those

623

00:24:49,669 --> 00:24:54,410

towns chose to live in bush areas and by

624

00:24:52,308 --> 00:24:56,450

that they implicitly accepted some risk

625

00:24:54,410 --> 00:24:58,250

the question of whether the risk was

626

00:24:56,450 --> 00:25:00,140

increased after they were already in

627

00:24:58,250 --> 00:25:02,720

possession of their land is a key

628
00:25:00,140 --> 00:25:04,429
question I have not been able to

629
00:25:02,720 --> 00:25:06,798
determine whether there has been such a

630
00:25:04,429 --> 00:25:08,720
pattern there is a lot of information

631
00:25:06,798 --> 00:25:10,400
available about this question but I

632
00:25:08,720 --> 00:25:13,460
could not find any that came from a

633
00:25:10,400 --> 00:25:15,259
neutral source when information

634
00:25:13,460 --> 00:25:17,329
presented matches the interests of the

635
00:25:15,259 --> 00:25:19,910
entity presenting it I tend to be

636
00:25:17,329 --> 00:25:21,740
cautious about accepting it it is also

637
00:25:19,910 --> 00:25:23,840
obviously possible or even likely that

638
00:25:21,740 --> 00:25:26,808
the situation varies between different

639
00:25:23,839 --> 00:25:29,899
localities whatever the case may be I

640
00:25:26,808 --> 00:25:32,069
will leave this question open to answer

641
00:25:29,900 --> 00:25:33,360
the second question some background is

642
00:25:32,069 --> 00:25:36,049
hired by the fires on this specific

643
00:25:33,359 --> 00:25:38,399
occasion and what was unique about them

644
00:25:36,049 --> 00:25:40,799
bush fires are common in the southeast

645
00:25:38,400 --> 00:25:42,900
of Australia indeed many Australian

646
00:25:40,799 --> 00:25:45,869
species of trees rely on fire to

647
00:25:42,900 --> 00:25:47,640
rejuvenate and reproduce droughts are

648
00:25:45,869 --> 00:25:50,250
also fairly common in the southeast of

649
00:25:47,640 --> 00:25:51,750
Australia the one lasting 10 years such

650
00:25:50,250 --> 00:25:54,619
as the one Victoria is in the midst of

651
00:25:51,750 --> 00:25:57,420
has not been experienced since the 1930s

652
00:25:54,619 --> 00:25:59,099
most importantly Victoria had been

653
00:25:57,420 --> 00:26:01,769
experiencing a heat wave that would make

654
00:25:59,099 --> 00:26:04,049
Hades squirm maximum temperatures

655
00:26:01,769 --> 00:26:07,319
regularly exceeded 40 degrees Celsius

656

00:26:04,049 --> 00:26:08,879
and were only below 30 45 days in the

657
00:26:07,319 --> 00:26:10,619
three weeks that culminates with the

658
00:26:08,880 --> 00:26:13,440
deadly fires on the seventh of February

659
00:26:10,619 --> 00:26:16,769
on that day the temperatures sold to

660
00:26:13,440 --> 00:26:18,809
forty six point four degrees in eucalypt

661
00:26:16,769 --> 00:26:20,970
forests which are usually enveloped in a

662
00:26:18,809 --> 00:26:22,769
blue haze of etheric oils such

663
00:26:20,970 --> 00:26:24,839
temperatures mean that the concentration

664
00:26:22,769 --> 00:26:28,019
of oils is higher and the air is almost

665
00:26:24,839 --> 00:26:30,419
combustible add to that mix wind speeds

666
00:26:28,019 --> 00:26:32,190
in excess of 30 kilometers per hour with

667
00:26:30,420 --> 00:26:34,470
gusts of up to 50 kilometers per hour

668
00:26:32,190 --> 00:26:36,480
and it is not entirely certain that's

669
00:26:34,470 --> 00:26:37,799
under such circumstances if your

670
00:26:36,480 --> 00:26:40,589

reduction would have made much of a

671

00:26:37,799 --> 00:26:42,180

difference some of the stories told by

672

00:26:40,589 --> 00:26:44,579

people who were there including

673

00:26:42,180 --> 00:26:46,769

firefighters described a wall of fire

674

00:26:44,579 --> 00:26:48,569

much higher than the trees and heat that

675

00:26:46,769 --> 00:26:51,660

surpassed anything they had experienced

676

00:26:48,569 --> 00:26:53,730

before others described the fire rolling

677

00:26:51,660 --> 00:26:56,070

down hill and through cleared areas

678

00:26:53,730 --> 00:26:58,319

spanning hundreds of metres or moving at

679

00:26:56,069 --> 00:26:59,579

speeds of many kilometers per hour both

680

00:26:58,319 --> 00:27:01,679

of which cannot be explained by

681

00:26:59,579 --> 00:27:03,179

excessive fuel and both indicate that

682

00:27:01,680 --> 00:27:05,100

properties that had planned cleared

683

00:27:03,180 --> 00:27:07,259

around them would not necessarily have

684

00:27:05,099 --> 00:27:10,169

been spared which is exactly what had

685
00:27:07,259 --> 00:27:12,180
occurred in many places firefighters

686
00:27:10,170 --> 00:27:13,680
repeatedly described the fires as being

687
00:27:12,180 --> 00:27:17,640
different to anything they had seen

688
00:27:13,680 --> 00:27:19,680
before and as unstoppable and finally on

689
00:27:17,640 --> 00:27:22,710
this point to the person who was fine

690
00:27:19,680 --> 00:27:24,720
for clearing land around his house Liam

691
00:27:22,710 --> 00:27:26,789
Sheehan had cleared to 100 meters around

692
00:27:24,720 --> 00:27:29,430
his property as opposed to the six

693
00:27:26,789 --> 00:27:31,859
meters allowed by the law or the 1.5

694
00:27:29,430 --> 00:27:34,289
tree heights recommended by CSIRO and

695
00:27:31,859 --> 00:27:36,750
was subsequently fined fifty thousand

696
00:27:34,289 --> 00:27:38,789
dollars he attributes the survival of

697
00:27:36,750 --> 00:27:40,829
his property to the clearing but other

698
00:27:38,789 --> 00:27:43,049
properties in other areas that had

699
00:27:40,829 --> 00:27:44,949
larger clear areas around them did not

700
00:27:43,049 --> 00:27:46,778
survive

701
00:27:44,950 --> 00:27:48,610
be fair to assume that the fact that mr.

702
00:27:46,778 --> 00:27:50,589
Sheehan himself and his son and daughter

703
00:27:48,609 --> 00:27:52,538
are all members of the country fire

704
00:27:50,589 --> 00:27:54,548
authority and our experienced

705
00:27:52,538 --> 00:27:57,069
firefighters might have had something to

706
00:27:54,548 --> 00:27:59,308
do with it surely there would be better

707
00:27:57,069 --> 00:28:02,109
equipped to protect their home than most

708
00:27:59,308 --> 00:28:04,240
this case raises the same question I

709
00:28:02,109 --> 00:28:07,148
mentioned earlier of what the rules were

710
00:28:04,240 --> 00:28:08,859
when mr. Sheehan bought his land if the

711
00:28:07,148 --> 00:28:11,259
law is prohibited clearing at the time

712
00:28:08,859 --> 00:28:13,538
then it is not at all clear that he's in

713

00:28:11,259 --> 00:28:16,359
the right even if the outcome for him

714
00:28:13,538 --> 00:28:18,069
was the saving of his property I've been

715
00:28:16,359 --> 00:28:20,288
unable to establish whether that is the

716
00:28:18,069 --> 00:28:22,898
case so that question too will remain

717
00:28:20,288 --> 00:28:25,089
open it is worth noting though that mr.

718
00:28:22,898 --> 00:28:27,689
Sheehan is on record saying that he's

719
00:28:25,089 --> 00:28:29,980
going to try to get his fine reversed

720
00:28:27,690 --> 00:28:31,778
the descriptions of the weather in the

721
00:28:29,980 --> 00:28:34,058
weeks leading to the fires and the long

722
00:28:31,778 --> 00:28:37,028
drought naturally lead to global warming

723
00:28:34,058 --> 00:28:40,028
as a probable cause but here to a few

724
00:28:37,028 --> 00:28:42,339
questions are raised for one global

725
00:28:40,028 --> 00:28:43,929
warming is a statistical phenomenon it

726
00:28:42,339 --> 00:28:46,288
does not mean that temperatures get

727
00:28:43,929 --> 00:28:49,028

higher every year or in every location

728

00:28:46,288 --> 00:28:50,440

at the same time that Victoria has been

729

00:28:49,028 --> 00:28:52,000

suffering from a heat wave in

730

00:28:50,440 --> 00:28:54,308

temperatures 20 degrees higher than

731

00:28:52,000 --> 00:28:56,710

average Sydney in eastern New South

732

00:28:54,308 --> 00:28:58,808

Wales was experiencing only a slight

733

00:28:56,710 --> 00:29:00,819

increasing temperatures but parts of

734

00:28:58,808 --> 00:29:02,288

western New South Wales were having a

735

00:29:00,819 --> 00:29:05,200

similar experience to that of the

736

00:29:02,288 --> 00:29:07,298

Victorians then in the week after the

737

00:29:05,200 --> 00:29:09,580

fires temperatures throughout much of

738

00:29:07,298 --> 00:29:12,638

the three areas just mentioned dropped

739

00:29:09,579 --> 00:29:14,888

to several degrees below average to our

740

00:29:12,638 --> 00:29:17,469

international listeners Victoria is

741

00:29:14,888 --> 00:29:19,569

south of New South Wales the fires were

742
00:29:17,470 --> 00:29:21,970
about 800 kilometres south of Sydney

743
00:29:19,569 --> 00:29:23,829
since Australia is in the southern

744
00:29:21,970 --> 00:29:26,589
hemisphere you would expect that moving

745
00:29:23,829 --> 00:29:28,869
800 kilometres south ward would make the

746
00:29:26,589 --> 00:29:31,048
weather colder not warmer but climate

747
00:29:28,869 --> 00:29:33,849
and weather are not as simple as that

748
00:29:31,048 --> 00:29:36,190
the drought which may have contributed

749
00:29:33,849 --> 00:29:38,558
to the fires has also been linked to

750
00:29:36,190 --> 00:29:40,509
global warming but while clearly a leak

751
00:29:38,558 --> 00:29:42,369
cannot be ruled out the level of

752
00:29:40,509 --> 00:29:44,528
certainty of such a claim cannot be

753
00:29:42,369 --> 00:29:46,658
considered very high in an arid

754
00:29:44,528 --> 00:29:48,700
continent such as Australia in which

755
00:29:46,659 --> 00:29:50,470
fertile areas are around the corner from

756
00:29:48,700 --> 00:29:53,980
desert and which has suffered long

757
00:29:50,470 --> 00:29:55,720
droughts in the past so both the drought

758
00:29:53,980 --> 00:29:58,240
and the heat wave may be linked to

759
00:29:55,720 --> 00:29:58,569
global warming saw might even say they

760
00:29:58,240 --> 00:30:00,730
are like

761
00:29:58,569 --> 00:30:02,288
to be linked but a long term pattern

762
00:30:00,730 --> 00:30:04,179
would need to be established before

763
00:30:02,288 --> 00:30:07,629
specific events can be attributed to

764
00:30:04,179 --> 00:30:09,788
global warming the last party to have

765
00:30:07,630 --> 00:30:12,610
been blamed though not by many are the

766
00:30:09,788 --> 00:30:14,278
residents themselves the claims against

767
00:30:12,609 --> 00:30:17,079
the residents were mostly of two types

768
00:30:14,278 --> 00:30:18,638
that they resided in a high-risk area in

769
00:30:17,079 --> 00:30:20,648
ways which increase the risk and that

770

00:30:18,638 --> 00:30:23,500
they failed to protect themselves in

771
00:30:20,648 --> 00:30:25,178
their properties the first claim centers

772
00:30:23,500 --> 00:30:27,548
around the basic risk of living in a

773
00:30:25,179 --> 00:30:29,460
bush fire prone area and the location of

774
00:30:27,548 --> 00:30:32,109
some of the town's at tops of ridges

775
00:30:29,460 --> 00:30:33,819
when there's a fire close by the last

776
00:30:32,109 --> 00:30:36,038
place you want to be is uphill from it

777
00:30:33,819 --> 00:30:37,388
if you're on a ridge you might have

778
00:30:36,038 --> 00:30:39,878
fires coming up from two different

779
00:30:37,388 --> 00:30:42,490
directions and your only Escape is along

780
00:30:39,878 --> 00:30:44,678
the ridge if the escape route is also

781
00:30:42,490 --> 00:30:48,220
blocked by fire the situation can only

782
00:30:44,679 --> 00:30:50,048
be described as extremely serious the

783
00:30:48,220 --> 00:30:51,700
problem for residents in this case is

784
00:30:50,048 --> 00:30:53,648

that they would have had to be aware of

785

00:30:51,700 --> 00:30:55,450

this risk and might reasonably have had

786

00:30:53,648 --> 00:30:57,189

an expectation that planning authorities

787

00:30:55,450 --> 00:30:59,230

would have prohibited the establishment

788

00:30:57,190 --> 00:31:02,139

of towns in places that could so easily

789

00:30:59,230 --> 00:31:04,058

become death traps many of the residents

790

00:31:02,138 --> 00:31:06,308

in affected areas would not experience

791

00:31:04,058 --> 00:31:08,079

bush people but other people who moved

792

00:31:06,308 --> 00:31:10,898

out of cities in search of more or

793

00:31:08,079 --> 00:31:12,638

lifestyles they could not be expected to

794

00:31:10,898 --> 00:31:15,908

be experts on the risks of living in the

795

00:31:12,638 --> 00:31:17,258

bush the second claim that the residents

796

00:31:15,909 --> 00:31:19,690

failed to protect themselves and their

797

00:31:17,259 --> 00:31:21,339

properties is based on the fact that few

798

00:31:19,690 --> 00:31:23,320

people stay to protect their properties

799
00:31:21,339 --> 00:31:26,470
as is often the aussie tradition in

800
00:31:23,319 --> 00:31:28,658
cases of bushfires well all I have to

801
00:31:26,470 --> 00:31:30,038
say to those who make that criticism is

802
00:31:28,659 --> 00:31:32,139
that they should watch the videos that

803
00:31:30,038 --> 00:31:34,628
some residents took of the huge flames

804
00:31:32,138 --> 00:31:37,148
approaching so quickly and listen to the

805
00:31:34,628 --> 00:31:39,459
words of the firefighters this was not

806
00:31:37,148 --> 00:31:41,859
just any bush fire and if more people

807
00:31:39,460 --> 00:31:45,009
stayed behind the death toll would very

808
00:31:41,859 --> 00:31:46,898
likely have been higher I have tried in

809
00:31:45,009 --> 00:31:49,659
this talk to raise questions and not

810
00:31:46,898 --> 00:31:51,939
jump to conclusions as I mentioned at

811
00:31:49,659 --> 00:31:54,278
the start of the talk i think the true

812
00:31:51,940 --> 00:31:55,769
causes are varied probably include all

813
00:31:54,278 --> 00:31:58,179
elements mentioned to varying degrees

814
00:31:55,769 --> 00:32:00,038
and it will probably take a long time of

815
00:31:58,179 --> 00:32:02,110
expert work to sort out what has

816
00:32:00,038 --> 00:32:03,940
happened and what could be done to

817
00:32:02,109 --> 00:32:06,729
perhaps alleviate some of the risk of a

818
00:32:03,940 --> 00:32:09,940
repeat I would urge listeners to take a

819
00:32:06,730 --> 00:32:11,649
skeptical approach ask questions don't

820
00:32:09,940 --> 00:32:11,900
make up your mind before the evidence is

821
00:32:11,648 --> 00:32:14,299
in

822
00:32:11,900 --> 00:32:23,990
and take the claims made by those with

823
00:32:14,299 --> 00:32:26,059
an agenda with a grain of salt well i'm

824
00:32:23,990 --> 00:32:27,789
here at Macquarie University in fact

825
00:32:26,059 --> 00:32:30,409
we're just going to lunch I'm with Duane

826
00:32:27,789 --> 00:32:32,750
homemaker does that help reduce it by

827

00:32:30,410 --> 00:32:35,480
Bakr hamaca and Tiffany day high too

828
00:32:32,750 --> 00:32:37,250
high Tiffany of course a reporter for

829
00:32:35,480 --> 00:32:40,009
the skeptic zone and we've spent the

830
00:32:37,250 --> 00:32:41,779
morning bending spoons spoons water

831
00:32:40,009 --> 00:32:43,359
divining talking about ghosts here at

832
00:32:41,779 --> 00:32:46,639
the open week at Macquarie University

833
00:32:43,359 --> 00:32:49,159
now Dwayne this is the third day now how

834
00:32:46,640 --> 00:32:50,990
is it going it has gone fantastic I've

835
00:32:49,160 --> 00:32:52,040
been really impressed with the amount of

836
00:32:50,990 --> 00:32:53,720
people that have come in and showed

837
00:32:52,039 --> 00:32:55,220
interest we've had almost a hundred

838
00:32:53,720 --> 00:32:56,600
people actually probably more than our

839
00:32:55,220 --> 00:32:58,190
people because it looks like at about 50

840
00:32:56,599 --> 00:32:59,779
and 20 people sign up in that last hour

841
00:32:58,190 --> 00:33:02,779

yeah we've had over a hundred responses

842

00:32:59,779 --> 00:33:04,430

a lot of a lot of people coming in a lot

843

00:33:02,779 --> 00:33:05,990

of interest been generated and I've been

844

00:33:04,430 --> 00:33:07,549

quite surprised I didn't expect to get

845

00:33:05,990 --> 00:33:09,920

more than 30 40 people all week we've

846

00:33:07,549 --> 00:33:11,869

already almost tripled by the mouth now

847

00:33:09,920 --> 00:33:14,150

I must say the old stick a spoon bending

848

00:33:11,869 --> 00:33:16,699

is serving as well it is it is a lot of

849

00:33:14,150 --> 00:33:18,200

people are impressed some don't really

850

00:33:16,700 --> 00:33:20,029

care so much but for the most part

851

00:33:18,200 --> 00:33:22,100

people been very very impressed by it

852

00:33:20,029 --> 00:33:23,960

and that's actually drawn several people

853

00:33:22,099 --> 00:33:25,669

in the group we had a gun one go

854

00:33:23,960 --> 00:33:28,670

shrieking just a moment ago it was quite

855

00:33:25,670 --> 00:33:30,560

funny no I was very it's very good to

856
00:33:28,670 --> 00:33:33,890
see an interesting comment I heard was

857
00:33:30,559 --> 00:33:36,859
somebody one young student was telling

858
00:33:33,890 --> 00:33:39,860
me how she was interested suddenly when

859
00:33:36,859 --> 00:33:41,569
she heard me say haunted houses now I

860
00:33:39,859 --> 00:33:42,799
don't know if there's any haunted

861
00:33:41,569 --> 00:33:45,230
locations around this neck of the woods

862
00:33:42,799 --> 00:33:46,759
I think pretty much everywhere the

863
00:33:45,230 --> 00:33:48,230
supposedly haunted houses I think you

864
00:33:46,759 --> 00:33:49,759
have to go further up in blue mountains

865
00:33:48,230 --> 00:33:52,099
or down by the rocks to really get the

866
00:33:49,759 --> 00:33:54,140
authentic haunted houses the authentic

867
00:33:52,099 --> 00:33:56,599
or as opposed to those fake haunted

868
00:33:54,140 --> 00:33:58,370
house you can't see my quotation marks

869
00:33:56,599 --> 00:34:00,169
in the air but yes the authentic haunted

870
00:33:58,369 --> 00:34:02,000
houses there goes to her group's down in

871
00:34:00,170 --> 00:34:03,320
the rocks quite frankly and I actually

872
00:34:02,000 --> 00:34:05,359
walked past them I go to work at the

873
00:34:03,319 --> 00:34:06,919
observatory and they've got a guy in the

874
00:34:05,359 --> 00:34:09,079
dark tape that he's talking on

875
00:34:06,920 --> 00:34:10,099
melodramatically and I kind of have to

876
00:34:09,079 --> 00:34:11,869
walk through the middle of the group

877
00:34:10,099 --> 00:34:13,219
every time and it's interesting to hear

878
00:34:11,869 --> 00:34:14,469
some of the stuff they talked about at

879
00:34:13,219 --> 00:34:18,209
the observatory I've actually had people

880
00:34:14,469 --> 00:34:20,638
ask me if the the grounds were haunted

881
00:34:18,210 --> 00:34:22,108
and sometimes I just say no but if I'm

882
00:34:20,639 --> 00:34:23,639
feeling a bit cheeky sometimes I'll tell

883
00:34:22,108 --> 00:34:25,409
them stories about how astronomers of

884

00:34:23,639 --> 00:34:27,300
have mysteriously died over the years

885
00:34:25,409 --> 00:34:28,559
but I used to hang people on that hill

886
00:34:27,300 --> 00:34:30,149
you know in the early days of the

887
00:34:28,559 --> 00:34:32,369
settlement all of course as always

888
00:34:30,148 --> 00:34:33,898
hangings everywhere yeah and there's a

889
00:34:32,369 --> 00:34:36,300
post supposedly little girl that haunts

890
00:34:33,898 --> 00:34:37,500
the place as well but some of the girls

891
00:34:36,300 --> 00:34:38,909
i should get very frightened and asked

892
00:34:37,500 --> 00:34:40,050
me to stop talking when we're in the

893
00:34:38,909 --> 00:34:43,769
telescope because they were getting

894
00:34:40,050 --> 00:34:45,450
scared oh boy oh boy well it's really

895
00:34:43,769 --> 00:34:47,550
encouraging to be here and they say all

896
00:34:45,449 --> 00:34:51,148
the people come along and to the to the

897
00:34:47,550 --> 00:34:52,740
steel skeptic stand now people want to

898
00:34:51,148 --> 00:34:55,429

find out more about Macquarie skeptics

899

00:34:52,739 --> 00:34:57,179

way to the head Macquarie skeptics calm

900

00:34:55,429 --> 00:34:59,220

everything is there we've got all of our

901

00:34:57,179 --> 00:35:03,409

events we have a newsletter coming out

902

00:34:59,219 --> 00:35:05,189

this weekend on the what is that the

903

00:35:03,409 --> 00:35:06,629

27-6 something like that one of those

904

00:35:05,190 --> 00:35:09,000

days this weekend we have the newsletter

905

00:35:06,630 --> 00:35:10,680

coming out just full of articles puzzles

906

00:35:09,000 --> 00:35:12,150

details of all the events coming up

907

00:35:10,679 --> 00:35:14,489

including skeptics week which will be

908

00:35:12,150 --> 00:35:16,980

coming up about two weeks all that is on

909

00:35:14,489 --> 00:35:18,838

there lengthen everything so especially

910

00:35:16,980 --> 00:35:20,880

listeners in Australia skeptical

911

00:35:18,838 --> 00:35:22,049

students out there contact them Cory

912

00:35:20,880 --> 00:35:24,480

skeptics they can give you some pointers

913
00:35:22,050 --> 00:35:27,470
about starting your own skeptical outfit

914
00:35:24,480 --> 00:35:27,469
in your University

915
00:35:30,090 --> 00:35:36,240
hi I'm Alice at eight host of the new by

916
00:35:33,300 --> 00:35:38,100
weekly podcast the pseudo-scientists the

917
00:35:36,239 --> 00:35:40,679
official podcast of the young Australian

918
00:35:38,099 --> 00:35:43,349
skeptics John Eliot birch daily breeders

919
00:35:40,679 --> 00:35:45,599
Jason ball Jack Scanlon k rush and

920
00:35:43,349 --> 00:35:47,940
myself to hear what our generation have

921
00:35:45,599 --> 00:35:50,309
to say about quackery science and the

922
00:35:47,940 --> 00:35:55,519
issues that concern us subscribe to our

923
00:35:50,309 --> 00:35:55,519
podcast located at young of skeptics com

924
00:35:55,820 --> 00:36:06,269
you're listening to the skeptic zone I'm

925
00:35:58,860 --> 00:36:09,240
Brian Dunning from SCAP thaicom now it's

926
00:36:06,269 --> 00:36:14,309
time for dr. Rachel reports with dr.

927
00:36:09,239 --> 00:36:18,089
Rachel Dunlop hello everyone and welcome

928
00:36:14,309 --> 00:36:19,980
to dr. Rachel reports with recent talk

929
00:36:18,090 --> 00:36:22,110
about how the anti-vaccine crowd have

930
00:36:19,980 --> 00:36:24,269
affected rates of vaccination in the UK

931
00:36:22,110 --> 00:36:25,920
and the states I thought it might be

932
00:36:24,269 --> 00:36:29,009
interesting to look closer to home to

933
00:36:25,920 --> 00:36:30,720
see how Australia stacks up this week

934
00:36:29,010 --> 00:36:32,820
Medicare which is Australia's

935
00:36:30,719 --> 00:36:34,649
government-run health body released

936
00:36:32,820 --> 00:36:37,530
figures from the Australian childhood

937
00:36:34,650 --> 00:36:41,160
immunization register which details the

938
00:36:37,530 --> 00:36:43,740
rate of immunization in Australia the

939
00:36:41,159 --> 00:36:46,049
latest figures are from December 2008

940
00:36:43,739 --> 00:36:49,500
and on the face of it it seems we are

941

00:36:46,050 --> 00:36:51,120
doing pretty well for kids aged up to 15

942
00:36:49,500 --> 00:36:54,210
months the national average for

943
00:36:51,119 --> 00:36:57,210
immunization is ninety-one percent with

944
00:36:54,210 --> 00:36:59,849
the lowest levels being 89.9 percent for

945
00:36:57,210 --> 00:37:02,309
Western Australia the national average

946
00:36:59,849 --> 00:37:05,069
falls to eighty eight point four percent

947
00:37:02,309 --> 00:37:06,690
in the up to five years old group with

948
00:37:05,070 --> 00:37:09,350
the lowest compliance of eighty five

949
00:37:06,690 --> 00:37:11,789
point five percent in South Australia

950
00:37:09,349 --> 00:37:14,099
but when you consider that approximately

951
00:37:11,789 --> 00:37:16,949
ninety percent vaccination is needed to

952
00:37:14,099 --> 00:37:19,170
obtain her immunity however this depends

953
00:37:16,949 --> 00:37:22,529
on the vaccine and the disease these

954
00:37:19,170 --> 00:37:24,150
figures are encouraging there are Rob

955
00:37:22,530 --> 00:37:26,210

Menzies from the National Center for

956

00:37:24,150 --> 00:37:28,829

immunization research and surveillance

957

00:37:26,210 --> 00:37:31,079

said that in some cases where there are

958

00:37:28,829 --> 00:37:33,090

low vaccination rates these are often

959

00:37:31,079 --> 00:37:34,829

more prevalent where well educated

960

00:37:33,090 --> 00:37:37,050

parents did their own research and

961

00:37:34,829 --> 00:37:39,750

believed the myths that vaccines did

962

00:37:37,050 --> 00:37:41,580

more harm than good and this was

963

00:37:39,750 --> 00:37:43,829

reflected in figures for Sydney's

964

00:37:41,579 --> 00:37:45,869

exclusive eastern suburbs where

965

00:37:43,829 --> 00:37:49,679

includes the Harborview well-to-do

966

00:37:45,869 --> 00:37:51,299

suburbs of Double Bay and for clues now

967

00:37:49,679 --> 00:37:52,919

these were ranked the worst with only

968

00:37:51,300 --> 00:37:55,680

eighty percent of children in these

969

00:37:52,920 --> 00:37:57,690

areas being immunized and this was

970
00:37:55,679 --> 00:38:00,089
followed closely by the areas of lismore

971
00:37:57,690 --> 00:38:02,130
Alstonville and Byron Bay Witcher areas

972
00:38:00,090 --> 00:38:05,640
known for their alternative lifestyles

973
00:38:02,130 --> 00:38:07,170
so this is not a big surprise now since

974
00:38:05,639 --> 00:38:09,299
these figures have been released there

975
00:38:07,170 --> 00:38:11,159
has been much discussion and speculation

976
00:38:09,300 --> 00:38:13,230
about why the wealthy suburbs are

977
00:38:11,159 --> 00:38:16,649
seemingly less likely to get their kids

978
00:38:13,230 --> 00:38:19,769
vaccinated one journalist described the

979
00:38:16,650 --> 00:38:23,220
parents as selfish dummy mummys needing

980
00:38:19,769 --> 00:38:25,230
their conscience pricked Adele Horan

981
00:38:23,219 --> 00:38:26,579
doesn't beat around the bush she

982
00:38:25,230 --> 00:38:29,429
reported in The Sydney Morning Herald

983
00:38:26,579 --> 00:38:31,799
that these are women who spend too many

984
00:38:29,429 --> 00:38:34,019
hours on wacky internet health sites and

985
00:38:31,800 --> 00:38:37,620
become convinced that immunization is a

986
00:38:34,019 --> 00:38:40,380
great conspiracy she further described

987
00:38:37,619 --> 00:38:41,549
these parents as the educated mother who

988
00:38:40,380 --> 00:38:43,170
thinks she knows better than the

989
00:38:41,550 --> 00:38:46,200
overwhelming majority of the world's

990
00:38:43,170 --> 00:38:47,820
scientists and doctors and as you can

991
00:38:46,199 --> 00:38:51,329
imagine she received some pretty nasty

992
00:38:47,820 --> 00:38:54,210
letters the following day she also said

993
00:38:51,329 --> 00:38:56,039
this around the world resistance to

994
00:38:54,210 --> 00:38:59,400
vaccination is strongest amongst the

995
00:38:56,039 --> 00:39:01,980
affluent and educated these statements

996
00:38:59,400 --> 00:39:03,570
are supported by arthur allen author of

997
00:39:01,980 --> 00:39:06,900
the book vaccine a history of

998

00:39:03,570 --> 00:39:08,940
immunization he observed that living in

999
00:39:06,900 --> 00:39:11,480
a place with a high percentage of PhDs

1000
00:39:08,940 --> 00:39:15,179
is a risk factor for whooping cough

1001
00:39:11,480 --> 00:39:17,309
skating stuff indeed but in a case of

1002
00:39:15,179 --> 00:39:19,169
backward logic the anti vectors have

1003
00:39:17,309 --> 00:39:22,679
actually claimed this for themselves

1004
00:39:19,170 --> 00:39:24,900
loudly proclaiming parents continue to

1005
00:39:22,679 --> 00:39:27,419
be accused of being ignorant uncaring

1006
00:39:24,900 --> 00:39:29,130
and stupid for refusing vaccines which

1007
00:39:27,420 --> 00:39:31,380
the medical community claim will keep

1008
00:39:29,130 --> 00:39:34,230
their children healthy when the truth is

1009
00:39:31,380 --> 00:39:38,070
older highly educated parents form the

1010
00:39:34,230 --> 00:39:39,480
basis of the anti immunization Lobby not

1011
00:39:38,070 --> 00:39:41,880
something to be proud of I would have

1012
00:39:39,480 --> 00:39:43,409

thought however one wonders if these are

1013

00:39:41,880 --> 00:39:46,410

the parents glued to morning television

1014

00:39:43,409 --> 00:39:48,210

where the likes of merrill dory from the

1015

00:39:46,409 --> 00:39:50,250

australian vaccination network can

1016

00:39:48,210 --> 00:39:53,760

regularly be seen spouting her

1017

00:39:50,250 --> 00:39:55,559

misinformed anti-vaccine on sense yes

1018

00:39:53,760 --> 00:39:57,450

people we have our own version of Jenny

1019

00:39:55,559 --> 00:40:00,599

McCarthy in Australia we are not

1020

00:39:57,449 --> 00:40:03,210

mune now the innocuous Lee titled

1021

00:40:00,599 --> 00:40:05,670

Australian vaccination network fronted

1022

00:40:03,210 --> 00:40:08,338

by the screeching Merrill dory go by the

1023

00:40:05,670 --> 00:40:10,740

catchphrase love them protects them

1024

00:40:08,338 --> 00:40:12,570

never injects them she is regularly

1025

00:40:10,739 --> 00:40:15,509

given a platform on morning television

1026

00:40:12,570 --> 00:40:18,300

shows in Australia such as mornings with

1027
00:40:15,510 --> 00:40:20,010
kerri-anne Kennerley in defense of

1028
00:40:18,300 --> 00:40:22,140
kerri-anne Kennerley they usually have a

1029
00:40:20,010 --> 00:40:25,589
representative from the sensible side in

1030
00:40:22,139 --> 00:40:27,809
this case dr. penny Adams however just

1031
00:40:25,588 --> 00:40:30,029
like the overseas breeds Meryl is not

1032
00:40:27,809 --> 00:40:33,210
shy about exposing her ignorance to a

1033
00:40:30,030 --> 00:40:35,099
national audience well not what's wrong

1034
00:40:33,210 --> 00:40:36,630
with vaccinator well I don't think

1035
00:40:35,099 --> 00:40:38,490
there's anything wrong with the idea of

1036
00:40:36,630 --> 00:40:40,170
vaccinations but unfortunately there

1037
00:40:38,489 --> 00:40:42,179
isn't a whole lot of science to back it

1038
00:40:40,170 --> 00:40:44,130
up dr. penny said that if we get enough

1039
00:40:42,179 --> 00:40:47,009
people vaccinated will see the disease's

1040
00:40:44,130 --> 00:40:48,809
wiped out on the Guardian and I don't

1041
00:40:47,010 --> 00:40:50,730
want to seem to interrupt you say not

1042
00:40:48,809 --> 00:40:53,159
enough science to back it up I'm a late

1043
00:40:50,730 --> 00:40:56,369
person I do know this information says

1044
00:40:53,159 --> 00:40:58,500
we've been polio-free since 2000 that to

1045
00:40:56,369 --> 00:41:02,059
me says there's a bit of science that

1046
00:40:58,500 --> 00:41:04,559
polio vaccinations were need i say more

1047
00:41:02,059 --> 00:41:06,480
however as a further demonstration of

1048
00:41:04,559 --> 00:41:08,190
how little the Australian vaccination

1049
00:41:06,480 --> 00:41:10,440
net won't understand about science and

1050
00:41:08,190 --> 00:41:13,530
medicine i will use an article written

1051
00:41:10,440 --> 00:41:17,670
by them known as 10 reasons why not to

1052
00:41:13,530 --> 00:41:21,000
vaccinate reason one vaccines have never

1053
00:41:17,670 --> 00:41:22,950
been tested this statement encompasses

1054
00:41:21,000 --> 00:41:24,659
the full gamut of how little the

1055

00:41:22,949 --> 00:41:26,639
Australian vaccination network know

1056
00:41:24,659 --> 00:41:29,368
about how the drug development process

1057
00:41:26,639 --> 00:41:31,650
works I won't bore you with the details

1058
00:41:29,369 --> 00:41:33,539
of this today but I will tell you it

1059
00:41:31,650 --> 00:41:35,220
takes millions of dollars around ten

1060
00:41:33,539 --> 00:41:37,858
years and at least four phases of

1061
00:41:35,219 --> 00:41:40,679
testing which continues even after the

1062
00:41:37,858 --> 00:41:42,900
drug is released evidence that this

1063
00:41:40,679 --> 00:41:45,598
process works can be found in the case

1064
00:41:42,900 --> 00:41:48,300
of a vaccine for the rotavirus called

1065
00:41:45,599 --> 00:41:53,730
rotor shield which was released in the

1066
00:41:48,300 --> 00:41:56,250
US in 1998 in pre-licensure trials the

1067
00:41:53,730 --> 00:41:58,260
vaccine appeared to be safe but in post

1068
00:41:56,250 --> 00:42:00,019
licensure surveillance it was associated

1069
00:41:58,260 --> 00:42:03,150

with an increased risk of

1070

00:42:00,019 --> 00:42:05,159

intussusception which is a rare form of

1071

00:42:03,150 --> 00:42:07,440

bowel obstruction occurring in infants

1072

00:42:05,159 --> 00:42:09,868

as soon as this problem was discovered

1073

00:42:07,440 --> 00:42:10,980

the vaccine was withdrawn from the

1074

00:42:09,869 --> 00:42:12,720

market

1075

00:42:10,980 --> 00:42:18,570

rotor shield was never released in

1076

00:42:12,719 --> 00:42:22,259

australia number two vaccines contain

1077

00:42:18,570 --> 00:42:24,180

toxic additives and heavy metals well

1078

00:42:22,260 --> 00:42:26,190

here the avn are of course scare

1079

00:42:24,179 --> 00:42:28,259

mongering with thimerosal which is the

1080

00:42:26,190 --> 00:42:30,480

mercury based preservative that has been

1081

00:42:28,260 --> 00:42:33,270

used in very small amounts in some

1082

00:42:30,480 --> 00:42:36,630

vaccines since the 1930s to prevent

1083

00:42:33,269 --> 00:42:38,699

bacterial and fungal contamination but

1084
00:42:36,630 --> 00:42:41,190
there is no evidence that thimerosal has

1085
00:42:38,699 --> 00:42:43,529
caused any health problems except

1086
00:42:41,190 --> 00:42:46,139
perhaps minor reactions such as redness

1087
00:42:43,530 --> 00:42:48,269
at the injection site in any case

1088
00:42:46,139 --> 00:42:51,029
thimerosal was removed from childhood

1089
00:42:48,269 --> 00:42:53,969
vaccines as a precaution in two thousand

1090
00:42:51,030 --> 00:42:56,700
and some vaccines such as pneumococcal

1091
00:42:53,969 --> 00:42:58,679
vaccines the MMR and other live

1092
00:42:56,699 --> 00:43:01,889
attenuated viral vaccines never

1093
00:42:58,679 --> 00:43:04,169
contained thimerosal whilst there are

1094
00:43:01,889 --> 00:43:06,690
certain vaccines for adults in Australia

1095
00:43:04,170 --> 00:43:09,450
that still contain thimerosal the levels

1096
00:43:06,690 --> 00:43:11,849
are extremely low much lower than the

1097
00:43:09,449 --> 00:43:15,629
level of exposure we obtain to mercury

1098
00:43:11,849 --> 00:43:17,608
in our daily lives I don't have the time

1099
00:43:15,630 --> 00:43:19,590
or energy to discuss all the claims made

1100
00:43:17,608 --> 00:43:22,199
by the Australian vaccination network in

1101
00:43:19,590 --> 00:43:24,570
this article except to say that they are

1102
00:43:22,199 --> 00:43:26,629
full of accusations and conspiracies we

1103
00:43:24,570 --> 00:43:29,369
have come to expect from these people

1104
00:43:26,630 --> 00:43:31,200
these include such gems as the

1105
00:43:29,369 --> 00:43:32,850
pharmaceutical companies have paid for

1106
00:43:31,199 --> 00:43:35,399
all the vaccine studies to date

1107
00:43:32,849 --> 00:43:38,429
therefore they are flawed and then

1108
00:43:35,400 --> 00:43:40,440
there's this extraordinary claim some

1109
00:43:38,429 --> 00:43:43,500
childhood illnesses have beneficial

1110
00:43:40,440 --> 00:43:45,690
aspects and therefore prevention may not

1111
00:43:43,500 --> 00:43:48,989
necessarily be in the interests of the

1112

00:43:45,690 --> 00:43:51,599
child you really think so Merrill dory

1113
00:43:48,989 --> 00:43:54,209
well why don't we use one example of a

1114
00:43:51,599 --> 00:43:56,549
childhood illness whooping cough which

1115
00:43:54,210 --> 00:43:57,750
can be vaccinated for and look at

1116
00:43:56,550 --> 00:44:00,840
whether it's in the interest of the

1117
00:43:57,750 --> 00:44:02,489
child to contract it I choose whooping

1118
00:44:00,840 --> 00:44:05,789
cough since Australia is currently

1119
00:44:02,489 --> 00:44:09,179
experiencing an epidemic now according

1120
00:44:05,789 --> 00:44:11,130
to some reports more than 8,300 cases

1121
00:44:09,179 --> 00:44:15,029
were reported in New South Wales last

1122
00:44:11,130 --> 00:44:17,490
year in October 2008 40 cases were

1123
00:44:15,030 --> 00:44:19,050
reported from the same school and the

1124
00:44:17,489 --> 00:44:21,179
Health Service said that most of these

1125
00:44:19,050 --> 00:44:24,570
cases were in children who had not been

1126
00:44:21,179 --> 00:44:27,349

immunized whooping cough is caused by

1127

00:44:24,570 --> 00:44:29,730

the bacterium bordetella pertussis

1128

00:44:27,349 --> 00:44:32,940

babies are vaccinated against whooping

1129

00:44:29,730 --> 00:44:35,358

cough at two months then boosted at four

1130

00:44:32,940 --> 00:44:37,920

months six months and four years a

1131

00:44:35,358 --> 00:44:39,929

booster dose is also recommended for

1132

00:44:37,920 --> 00:44:41,550

adolescents and certain adults such as

1133

00:44:39,929 --> 00:44:44,269

healthcare workers and those who work

1134

00:44:41,550 --> 00:44:46,619

with young babies in young children

1135

00:44:44,269 --> 00:44:49,409

whooping cough is particularly serious

1136

00:44:46,619 --> 00:44:52,590

where one in every 200 babies who can

1137

00:44:49,409 --> 00:44:54,480

track the infection will die some can

1138

00:44:52,590 --> 00:44:57,720

even crack their ribs through violent

1139

00:44:54,480 --> 00:44:59,789

coughing attacks a recent report about

1140

00:44:57,719 --> 00:45:02,608

the epidemic cited the story of a

1141
00:44:59,789 --> 00:45:05,880
14-week old girl who has had whooping

1142
00:45:02,608 --> 00:45:07,829
cough since he was two weeks old her

1143
00:45:05,880 --> 00:45:10,050
terrified mother said she had turned

1144
00:45:07,829 --> 00:45:13,949
blue several times during coughing fits

1145
00:45:10,050 --> 00:45:15,690
as she gasped for air whooping cough is

1146
00:45:13,949 --> 00:45:18,539
not a disease you want to mess with it

1147
00:45:15,690 --> 00:45:20,670
causes considerable morbidity the

1148
00:45:18,539 --> 00:45:22,320
disease is particularly serious in small

1149
00:45:20,670 --> 00:45:24,900
children as it can cause them to stop

1150
00:45:22,320 --> 00:45:27,330
breathing the whoop which is not always

1151
00:45:24,900 --> 00:45:28,820
obvious is due to a deep breath at the

1152
00:45:27,329 --> 00:45:32,130
end of a bout of coughing and vomiting

1153
00:45:28,820 --> 00:45:34,200
after coughing is common severe

1154
00:45:32,130 --> 00:45:36,180
complications which occur almost

1155
00:45:34,199 --> 00:45:39,839
exclusively and unvaccinated people

1156
00:45:36,179 --> 00:45:41,759
include seizures and pneumonia in babies

1157
00:45:39,840 --> 00:45:43,530
under six months of age the symptoms can

1158
00:45:41,760 --> 00:45:47,340
be severe or life-threatening and

1159
00:45:43,530 --> 00:45:49,019
include hemorrhage apnea which is when

1160
00:45:47,340 --> 00:45:52,079
you stop breathing for short or long

1161
00:45:49,019 --> 00:45:54,829
periods of time pneumonia inflammation

1162
00:45:52,079 --> 00:45:58,069
of the brain convulsions and coma

1163
00:45:54,829 --> 00:46:00,210
permanent brain damage and death

1164
00:45:58,070 --> 00:46:02,490
according to health officials in New

1165
00:46:00,210 --> 00:46:04,289
South Wales the recent epidemic of

1166
00:46:02,489 --> 00:46:07,409
whooping cough is likely a result of a

1167
00:46:04,289 --> 00:46:09,090
reduction in vaccination the north coast

1168
00:46:07,409 --> 00:46:12,358
Area Health Service Director of Public

1169

00:46:09,090 --> 00:46:14,430
Health Paul corbin said communities with

1170
00:46:12,358 --> 00:46:16,590
low vaccination rates have had more than

1171
00:46:14,429 --> 00:46:18,809
eight times the rate of disease seen in

1172
00:46:16,590 --> 00:46:21,539
those areas with the highest vaccination

1173
00:46:18,809 --> 00:46:23,519
rates while according to the Australian

1174
00:46:21,539 --> 00:46:25,079
vaccination Network you don't need to

1175
00:46:23,519 --> 00:46:27,300
vaccinate against whooping cough

1176
00:46:25,079 --> 00:46:30,989
sometimes it's better for kids to just

1177
00:46:27,300 --> 00:46:33,180
catch it and although this organization

1178
00:46:30,989 --> 00:46:35,399
is relatively small they do have a lot

1179
00:46:33,179 --> 00:46:36,989
of influenza and are also well organized

1180
00:46:35,400 --> 00:46:39,070
and very active

1181
00:46:36,989 --> 00:46:41,319
Australian listeners may remember the

1182
00:46:39,070 --> 00:46:43,690
case of parents who fled hospital and

1183
00:46:41,320 --> 00:46:46,750

the authorities with their newborn boy

1184

00:46:43,690 --> 00:46:50,139

in August 2008 to avoid having to have

1185

00:46:46,750 --> 00:46:52,059

him vaccinated for hepatitis B the sad

1186

00:46:50,139 --> 00:46:54,730

thing was the mother was hepatitis B

1187

00:46:52,059 --> 00:46:57,039

positive herself and although it is not

1188

00:46:54,730 --> 00:46:59,619

compulsory to be vaccinated in Australia

1189

00:46:57,039 --> 00:47:01,480

it is health department policy that

1190

00:46:59,619 --> 00:47:04,329

children born of hepatitis B positive

1191

00:47:01,480 --> 00:47:06,369

mothers are offered immunoglobulin for

1192

00:47:04,329 --> 00:47:08,739

the child within 12 hours of birth and

1193

00:47:06,369 --> 00:47:12,730

four doses of the vaccine over six

1194

00:47:08,739 --> 00:47:14,289

months in a tragic tale of ignorance the

1195

00:47:12,730 --> 00:47:16,990

mother told reporters that the couple

1196

00:47:14,289 --> 00:47:18,699

believed aluminium in the vaccine could

1197

00:47:16,989 --> 00:47:22,119

cause him more damage than the child

1198
00:47:18,699 --> 00:47:24,250
contracting hepatitis B and of course

1199
00:47:22,119 --> 00:47:26,799
the father is a member of the Australian

1200
00:47:24,250 --> 00:47:31,239
vaccination network by which the couple

1201
00:47:26,800 --> 00:47:33,519
are now touted as heroes Australia also

1202
00:47:31,239 --> 00:47:35,589
has the usual suspects such as the

1203
00:47:33,519 --> 00:47:37,869
chiropractors who don't proclaim it from

1204
00:47:35,590 --> 00:47:40,570
the rooftops but upon questioning will

1205
00:47:37,869 --> 00:47:43,480
tell you not to vaccinate they will also

1206
00:47:40,570 --> 00:47:45,519
follow the MMR autism line and I had one

1207
00:47:43,480 --> 00:47:48,969
tell me this at a recent mother's babies

1208
00:47:45,519 --> 00:47:50,800
and pregnancy Expo and of course we

1209
00:47:48,969 --> 00:47:53,019
can't forget the despicable homeopaths

1210
00:47:50,800 --> 00:47:54,640
who will also tell you on the sly that

1211
00:47:53,019 --> 00:47:57,400
you can use homeopathy to vaccinate your

1212
00:47:54,639 --> 00:48:00,639
kids I won't discuss this further today

1213
00:47:57,400 --> 00:48:05,170
because a it makes me too angry and B it

1214
00:48:00,639 --> 00:48:06,519
requires its own show entirely for more

1215
00:48:05,170 --> 00:48:09,130
information about the myths and

1216
00:48:06,519 --> 00:48:11,469
realities of vaccination the Australian

1217
00:48:09,130 --> 00:48:13,890
government publishes a brochure called

1218
00:48:11,469 --> 00:48:15,969
vaccination myths and realities

1219
00:48:13,889 --> 00:48:18,460
responding to arguments against

1220
00:48:15,969 --> 00:48:20,529
immunisation this is a thoroughly

1221
00:48:18,460 --> 00:48:22,510
researched and easy-to-read resource

1222
00:48:20,530 --> 00:48:26,320
which addresses fact and fiction about

1223
00:48:22,510 --> 00:48:27,670
immunization it's also useful even if

1224
00:48:26,320 --> 00:48:29,650
you are not in Australia and

1225
00:48:27,670 --> 00:48:31,150
particularly good for passing the way of

1226

00:48:29,650 --> 00:48:32,860
anyone you know who might have some

1227
00:48:31,150 --> 00:48:36,639
dodgy ideas about the merits of

1228
00:48:32,860 --> 00:48:38,440
vaccination for further reading and the

1229
00:48:36,639 --> 00:48:40,480
references for this story head to my

1230
00:48:38,440 --> 00:48:43,150
blog which is linked from skeptic zone

1231
00:48:40,480 --> 00:48:45,190
TV and thank you to everyone who has

1232
00:48:43,150 --> 00:48:47,590
been emailing me and leaving comments on

1233
00:48:45,190 --> 00:48:50,380
the blog also don't forget I have

1234
00:48:47,590 --> 00:48:52,900
another blog at skeptics book calm

1235
00:48:50,380 --> 00:48:55,860
and until next time this has been dr.

1236
00:48:52,900 --> 00:48:55,860
Rachel reports

1237
00:49:04,159 --> 00:49:08,789
breaking news science was arrested

1238
00:49:06,960 --> 00:49:10,800
yesterday for exposing himself in public

1239
00:49:08,789 --> 00:49:13,318
on a website called smart acts calm

1240
00:49:10,800 --> 00:49:15,329

science denied any wrongdoing in a

1241

00:49:13,318 --> 00:49:18,529

statement smart acts calm said they

1242

00:49:15,329 --> 00:49:25,800

would do it again and again and again

1243

00:49:18,530 --> 00:49:30,260

smart acts calm join us now for drinking

1244

00:49:25,800 --> 00:49:30,260

skeptically in the think tank

1245

00:49:34,889 --> 00:49:38,400

good evening good afternoon or good

1246

00:49:36,630 --> 00:49:41,789

morning as James Randi would say and

1247

00:49:38,400 --> 00:49:46,490

welcome to the think tank cheers cheers

1248

00:49:41,789 --> 00:49:48,980

Cheers hmm

1249

00:49:46,489 --> 00:49:52,399

oh that's better nice cheap champagne

1250

00:49:48,980 --> 00:49:56,750

I'm joined tonight by Iran's they give

1251

00:49:52,400 --> 00:49:58,639

good anger on hello dr. rachy dr. Rachel

1252

00:49:56,750 --> 00:50:00,619

Dunlop hi Richard how are you I'm fine

1253

00:49:58,639 --> 00:50:03,440

thank you for your report earlier in the

1254

00:50:00,619 --> 00:50:07,250

show good as ever and some guy we found

1255
00:50:03,440 --> 00:50:09,920
on the street Dave the happy singer okay

1256
00:50:07,250 --> 00:50:12,289
welcome back thank you thank you did you

1257
00:50:09,920 --> 00:50:14,240
miss me yeah we always we always with to

1258
00:50:12,289 --> 00:50:16,219
you we always miss you Dave the happy

1259
00:50:14,239 --> 00:50:18,469
singer i'm going to start straight off i

1260
00:50:16,219 --> 00:50:20,329
am this think tank i want to give a big

1261
00:50:18,469 --> 00:50:24,289
shout out to my good friend Mario

1262
00:50:20,329 --> 00:50:26,960
otherwise known as muy ooh hi meri P I'm

1263
00:50:24,289 --> 00:50:31,849
le poop now she's involved with the new

1264
00:50:26,960 --> 00:50:35,300
site called smart XCOM and access in

1265
00:50:31,849 --> 00:50:36,769
chopping the tree acts smart x comma she

1266
00:50:35,300 --> 00:50:40,670
says it's the sort of the naughtiest

1267
00:50:36,769 --> 00:50:42,139
side of science well and I think Rachel

1268
00:50:40,670 --> 00:50:44,230
there's something on there to do well

1269
00:50:42,139 --> 00:50:46,579
there will be soon to do with breasts so

1270
00:50:44,230 --> 00:50:48,650
I've heard a rumor about that when you

1271
00:50:46,579 --> 00:50:49,940
know i'm not sure what she is well she

1272
00:50:48,650 --> 00:50:52,039
has got some stuff up there already

1273
00:50:49,940 --> 00:50:53,358
about oscillating breasts but i don't

1274
00:50:52,039 --> 00:50:54,619
want to give anything away i'm not sure

1275
00:50:53,358 --> 00:50:57,049
what it's actually up there at this

1276
00:50:54,619 --> 00:50:58,780
point yeah oscillating brush yes yeah

1277
00:50:57,050 --> 00:51:02,119
it's like that if you think so awesome

1278
00:50:58,780 --> 00:51:05,750
no it's explaining physics three options

1279
00:51:02,119 --> 00:51:08,660
and i've seen i woulda diviners use all

1280
00:51:05,750 --> 00:51:10,579
sorts of things I really have are you

1281
00:51:08,659 --> 00:51:13,489
suggesting I could use something else i

1282
00:51:10,579 --> 00:51:15,349
have from wrong yeah well there's no i'm

1283

00:51:13,489 --> 00:51:16,849
rhyming this I realized there's an audio

1284
00:51:15,349 --> 00:51:19,900
based medium but I can't describe this

1285
00:51:16,849 --> 00:51:23,089
idea I've got other than and it kind of

1286
00:51:19,900 --> 00:51:25,789
mine I wish this was video now what are

1287
00:51:23,090 --> 00:51:28,940
also has invested well their breasts oh

1288
00:51:25,789 --> 00:51:31,070
really oh right the small tax is that

1289
00:51:28,940 --> 00:51:32,929
with annie varughese or without witness

1290
00:51:31,070 --> 00:51:36,980
the Americans to it with our Naidu yeah

1291
00:51:32,929 --> 00:51:42,368
it is I am A Wish would it this is rose

1292
00:51:36,980 --> 00:51:45,769
into the nest hey hey hey exhale com I

1293
00:51:42,369 --> 00:51:51,130
am so smart I am so smart estimate II I

1294
00:51:45,769 --> 00:51:51,130
mean smt heart smart XCOM

1295
00:51:52,519 --> 00:51:58,579
hey yo que era just go on the silent

1296
00:51:58,849 --> 00:52:04,500
hexbug now folks with that with that

1297
00:52:01,588 --> 00:52:08,429

level of Murphy on this side of the this

1298

00:52:04,500 --> 00:52:10,769

is a matter for math Murph visit smart

1299

00:52:08,429 --> 00:52:14,279

acts and doctor with a nice mark acts

1300

00:52:10,769 --> 00:52:17,068

calm and find out more because muy poo

1301

00:52:14,280 --> 00:52:19,650

has done a tremendous amount of very

1302

00:52:17,068 --> 00:52:21,509

funny science videos and she's just

1303

00:52:19,650 --> 00:52:23,910

relaunched this website as well as she

1304

00:52:21,510 --> 00:52:26,420

heard she is right you really really

1305

00:52:23,909 --> 00:52:29,489

worth a look its release visit smart

1306

00:52:26,420 --> 00:52:31,559

XCOM so Rachel what do you have first

1307

00:52:29,489 --> 00:52:34,679

night oh I've got a story about am

1308

00:52:31,559 --> 00:52:37,650

driver in Brisbane who was accused of

1309

00:52:34,679 --> 00:52:39,419

drink-driving recently this story

1310

00:52:37,650 --> 00:52:42,568

appeared in the brisbane courier-mail on

1311

00:52:39,420 --> 00:52:44,460

the eighteenth of februari and it was a

1312
00:52:42,568 --> 00:52:48,088
case of a gentleman who was picked up

1313
00:52:44,460 --> 00:52:51,568
for drink driving he was found by police

1314
00:52:48,088 --> 00:52:55,170
in his car wearing only his underpants

1315
00:52:51,568 --> 00:52:56,789
oh and when Polly's tapped on his window

1316
00:52:55,170 --> 00:52:59,490
and woke him up he said he had no

1317
00:52:56,789 --> 00:53:01,289
recollection of what happened but his

1318
00:52:59,489 --> 00:53:03,568
blood alcohol reading was three times

1319
00:53:01,289 --> 00:53:06,358
the legal limit it was point one seven

1320
00:53:03,568 --> 00:53:11,009
six and in Australia the legal limit is

1321
00:53:06,358 --> 00:53:13,019
point zero five and even when he went to

1322
00:53:11,010 --> 00:53:15,150
court he claims that he had had one

1323
00:53:13,019 --> 00:53:17,068
glass of wine and then took to

1324
00:53:15,150 --> 00:53:21,389
homeopathic sleeping tablets an hour

1325
00:53:17,068 --> 00:53:24,088
later and his last memory is waking up

1326
00:53:21,389 --> 00:53:26,288
when ambulance officers were tapping on

1327
00:53:24,088 --> 00:53:28,358
the window of his car

1328
00:53:26,289 --> 00:53:29,919
so he went to court and told the judge

1329
00:53:28,358 --> 00:53:33,938
that it must have been the homeopathic

1330
00:53:29,918 --> 00:53:36,879
sleeping tablets I'm not so sure about

1331
00:53:33,938 --> 00:53:38,828
that I mean allegedly he had one glass

1332
00:53:36,880 --> 00:53:41,890
of wine I suspect he may have had a few

1333
00:53:38,829 --> 00:53:43,419
more glasses than one really yeah well

1334
00:53:41,889 --> 00:53:44,768
did you feel fortunate to live in a

1335
00:53:43,418 --> 00:53:47,650
country whether by where the judge

1336
00:53:44,768 --> 00:53:48,938
doesn't buy clean like that well it's

1337
00:53:47,650 --> 00:53:52,119
funny you should mention that Iran

1338
00:53:48,938 --> 00:53:53,438
because the judge fined him a thousand

1339
00:53:52,119 --> 00:53:55,749
dollars and disqualified him from

1340

00:53:53,438 --> 00:53:57,668
driving for nine months yes but it was a

1341
00:53:55,748 --> 00:54:00,458
homeopathic fine so he'd be out next

1342
00:53:57,668 --> 00:54:02,259
week or doing it well no it wasn't a

1343
00:54:00,458 --> 00:54:04,928
homeopathic fine but you you're right

1344
00:54:02,259 --> 00:54:06,938
but I guess if it was a homeopathic

1345
00:54:04,929 --> 00:54:10,749
glass of wine maybe it was super super

1346
00:54:06,938 --> 00:54:12,578
strong for super super weak which meant

1347
00:54:10,748 --> 00:54:14,379
it was super super exactly yeah that's

1348
00:54:12,579 --> 00:54:16,719
what I mean so it was super super dilute

1349
00:54:14,380 --> 00:54:19,329
therefore it was very strong so that's

1350
00:54:16,719 --> 00:54:20,858
probably why one glass resulted in him

1351
00:54:19,329 --> 00:54:24,999
being three times over the legal limit

1352
00:54:20,858 --> 00:54:27,668
and interestingly enough he is also a

1353
00:54:24,998 --> 00:54:30,368
national ballroom dancer champion well

1354
00:54:27,668 --> 00:54:32,679

in fact just as an aside that may have

1355

00:54:30,369 --> 00:54:34,479

been of interest to some people and to

1356

00:54:32,679 --> 00:54:37,539

all the homeopaths out there we don't

1357

00:54:34,478 --> 00:54:38,978

buy it for a second how many people

1358

00:54:37,539 --> 00:54:40,869

though that a ballroom dancers sit

1359

00:54:38,978 --> 00:54:42,578

around drinking in their underpants what

1360

00:54:40,869 --> 00:54:44,559

do you think he may be so well street

1361

00:54:42,579 --> 00:54:47,709

for he always drink in my mouth not my

1362

00:54:44,559 --> 00:54:49,089

own I was actually wondering how

1363

00:54:47,708 --> 00:54:51,129

everybody said how many people I was

1364

00:54:49,088 --> 00:54:54,659

thinking how many people who are only a

1365

00:54:51,130 --> 00:54:58,289

parent's actually listening to this job

1366

00:54:54,659 --> 00:55:00,640

22 yeah well how many ballroom dances

1367

00:54:58,289 --> 00:55:03,339

drank in their underpants anyway he was

1368

00:55:00,639 --> 00:55:04,838

he was charged so the judge didn't as

1369
00:55:03,338 --> 00:55:06,038
you mentioned around didn't buy the fact

1370
00:55:04,838 --> 00:55:07,579
that it was a homeopathic sleeping

1371
00:55:06,039 --> 00:55:09,240
tablet

1372
00:55:07,579 --> 00:55:11,099
Richard you know something about

1373
00:55:09,239 --> 00:55:12,899
homeopathic sleeping tablets don't you I

1374
00:55:11,099 --> 00:55:16,319
believe you've been involved in an

1375
00:55:12,900 --> 00:55:18,480
incident or a stunt way you attempted to

1376
00:55:16,320 --> 00:55:22,170
overdose on homeopath yeah that was the

1377
00:55:18,480 --> 00:55:24,780
the 2004 Australian skeptics convention

1378
00:55:22,170 --> 00:55:27,690
here in Sydney and myself in a group of

1379
00:55:24,780 --> 00:55:29,910
skeptics consumed handfuls of

1380
00:55:27,690 --> 00:55:32,429
homeopathic sleeping tablets in front of

1381
00:55:29,909 --> 00:55:34,469
a live audience and what happened

1382
00:55:32,429 --> 00:55:36,599
Richard Ellis like I haven't slept since

1383
00:55:34,469 --> 00:55:38,189
which is a bit weird but it's actually

1384
00:55:36,599 --> 00:55:40,500
not weird at all because if you think of

1385
00:55:38,190 --> 00:55:42,630
it the less commute Butler the less time

1386
00:55:40,500 --> 00:55:46,679
your pathak tablets you take the more

1387
00:55:42,630 --> 00:55:49,430
potent of hot yoga is now James Randi

1388
00:55:46,679 --> 00:55:51,869
does this a lot here he'll quaff

1389
00:55:49,429 --> 00:55:53,609
handfuls of homeopathic sleeping tablets

1390
00:55:51,869 --> 00:55:56,400
yeah there's your sugar pill so really

1391
00:55:53,610 --> 00:55:58,230
doesn't matter doesn't give you any any

1392
00:55:56,400 --> 00:56:00,990
response to you at least get a sugar

1393
00:55:58,230 --> 00:56:02,880
high or nothing nothing at all because

1394
00:56:00,989 --> 00:56:04,829
they're tiny they're miniscule these

1395
00:56:02,880 --> 00:56:07,289
tablets and they Chuck they cost a

1396
00:56:04,829 --> 00:56:08,670
fortune for a packet of them I mean we

1397

00:56:07,289 --> 00:56:10,679
aren't laid a couple of hundred dollars

1398
00:56:08,670 --> 00:56:12,990
to get enough so ever the four or five

1399
00:56:10,679 --> 00:56:14,789
of us or six or whatever it was at the

1400
00:56:12,989 --> 00:56:16,739
front of the audience could all have a

1401
00:56:14,789 --> 00:56:20,480
handful and go computing appointment

1402
00:56:16,739 --> 00:56:23,729
with nominal long and eat them all and

1403
00:56:20,480 --> 00:56:25,530
no it was it was a funny stunt but it

1404
00:56:23,730 --> 00:56:28,380
was to make a serious point but this the

1405
00:56:25,530 --> 00:56:31,859
public are being sold

1406
00:56:28,380 --> 00:56:37,349
what's the word chance a pious evos yeah

1407
00:56:31,858 --> 00:56:40,528
yeah well the next wait let me um talk

1408
00:56:37,349 --> 00:56:42,838
about ghosts Oh ghosts and what's the

1409
00:56:40,528 --> 00:56:45,179
ghost what's a ghost that's a good

1410
00:56:42,838 --> 00:56:46,440
question I don't know neither do i knew

1411
00:56:45,179 --> 00:56:48,149

you bring what asking people yeah what's

1412

00:56:46,440 --> 00:56:49,798

ago somebody I was talking to somebody

1413

00:56:48,150 --> 00:56:51,509

of you the other day on the internet and

1414

00:56:49,798 --> 00:56:53,518

we were talking about ghosts this is a

1415

00:56:51,509 --> 00:56:55,528

ghost or spirit and God is the great

1416

00:56:53,518 --> 00:56:59,149

disabilities of all and as is no single

1417

00:56:55,528 --> 00:56:59,150

malt scotch whisky is the greatest

1418

00:57:01,190 --> 00:57:06,210

that's a funny joke from Dave the happy

1419

00:57:03,929 --> 00:57:10,139

singer you can come out when I oh hey

1420

00:57:06,210 --> 00:57:12,028

wait I weren't all right in Darby in

1421

00:57:10,139 --> 00:57:18,118

England they've had some problems with a

1422

00:57:12,028 --> 00:57:19,829

ghost and this is reported today I know

1423

00:57:18,119 --> 00:57:22,079

sorry I big eponymous recorded in

1424

00:57:19,829 --> 00:57:23,670

reported in January so it's slightly old

1425

00:57:22,079 --> 00:57:26,130

maid but ghosts can hang around for a

1426
00:57:23,670 --> 00:57:28,829
long time surgical spirit spooks

1427
00:57:26,130 --> 00:57:30,720
hospital staff at the state of the art

1428
00:57:28,829 --> 00:57:32,970
on a state of stuff at a

1429
00:57:30,719 --> 00:57:35,219
state-of-the-art Hospital have called in

1430
00:57:32,969 --> 00:57:37,618
a chaplain after being spooked by a

1431
00:57:35,219 --> 00:57:40,108
ghost but have denied claims there are

1432
00:57:37,619 --> 00:57:43,550
plans to carry out an exorcism this is

1433
00:57:40,108 --> 00:57:47,559
that they endure be

1434
00:57:43,550 --> 00:57:50,180
in the UK Darby's new Royal Hospital

1435
00:57:47,559 --> 00:57:53,029
some people working they have reported

1436
00:57:50,179 --> 00:57:54,619
being scared by a ghost and there are

1437
00:57:53,030 --> 00:57:56,990
reports that they were calling in a

1438
00:57:54,619 --> 00:58:01,159
chaplain to maybe perform an exorcism

1439
00:57:56,989 --> 00:58:03,649
which is odd apparently this hospital

1440
00:58:01,159 --> 00:58:05,569
has been built on what was once a Roman

1441
00:58:03,650 --> 00:58:08,780
Road and the speculation that the ghost

1442
00:58:05,570 --> 00:58:11,660
is a Roman soldier has anyone actually

1443
00:58:08,780 --> 00:58:13,280
seen the ghost do they have vision of it

1444
00:58:11,659 --> 00:58:16,639
is that why they call it a Roman soldier

1445
00:58:13,280 --> 00:58:19,160
well that's a very good question but

1446
00:58:16,639 --> 00:58:24,379
apparently there are reports of workers

1447
00:58:19,159 --> 00:58:27,289
there being spooked haha spook pie

1448
00:58:24,380 --> 00:58:30,250
apparitions or a ghost and the quote

1449
00:58:27,289 --> 00:58:34,519
here is very strange it said experts

1450
00:58:30,250 --> 00:58:37,849
said the surgical spirit could be at the

1451
00:58:34,519 --> 00:58:40,250
ghost of a Roman soldier expert now

1452
00:58:37,849 --> 00:58:42,710
experts well experts Richard that means

1453
00:58:40,250 --> 00:58:44,780
they know everything doesn't it they're

1454

00:58:42,710 --> 00:58:47,960
not specific about what experts are they

1455
00:58:44,780 --> 00:58:52,390
know stacks books ghost expert I'm sorry

1456
00:58:47,960 --> 00:58:55,880
go with them iam it from treatment and

1457
00:58:52,389 --> 00:58:58,730
now the senior manager Debbie Butler as

1458
00:58:55,880 --> 00:59:01,099
written I'm not sure how many of you are

1459
00:58:58,730 --> 00:59:03,260
aware that some members of our staff

1460
00:59:01,099 --> 00:59:05,239
have reported seeing a ghost I'm taking

1461
00:59:03,260 --> 00:59:08,870
it seriously as last thing I want you

1462
00:59:05,239 --> 00:59:11,869
start feeling uneasy at work last thing

1463
00:59:08,869 --> 00:59:14,029
you want I'm just wondering about why

1464
00:59:11,869 --> 00:59:16,339
chaplain I mean if you have

1465
00:59:14,030 --> 00:59:18,890
ghosts than youthful Dementors or

1466
00:59:16,340 --> 00:59:20,900
something no Dementors you mean from

1467
00:59:18,889 --> 00:59:24,849
have something strange in your

1468
00:59:20,900 --> 00:59:33,079

neighborhood who you're gonna call the

1469

00:59:24,849 --> 00:59:35,869

dog catching it goes no seriously why a

1470

00:59:33,079 --> 00:59:37,730

chaplain yeah good question good night

1471

00:59:35,869 --> 00:59:39,559

don't do that it was a Roman go that's

1472

00:59:37,730 --> 00:59:42,980

like Catholic chaplain you doing

1473

00:59:39,559 --> 00:59:44,449

exorcism Darby surely I mean the Darby

1474

00:59:42,980 --> 00:59:46,789

the burnt all the Catholics a long time

1475

00:59:44,449 --> 00:59:49,460

ago why not call this relational local

1476

00:59:46,789 --> 00:59:52,940

Krishna's Old English well it's a Roman

1477

00:59:49,460 --> 00:59:54,920

ghost so we need to know what it is late

1478

00:59:52,940 --> 00:59:56,990

cry Constantine converted the Roman

1479

00:59:54,920 --> 00:59:59,240

Empire to Christianity have to call it

1480

00:59:56,989 --> 01:00:02,659

well it does say in that article 1920s

1481

00:59:59,239 --> 01:00:07,309

doesn't come or weeks because I wonder

1482

01:00:02,659 --> 01:00:09,170

was that 480 yeah something like that so

1483
01:00:07,309 --> 01:00:10,759
after that then a chaplain but if it's

1484
01:00:09,170 --> 01:00:12,170
from before then then you're gonna have

1485
01:00:10,760 --> 01:00:13,850
to get somebody who knows about but do

1486
01:00:12,170 --> 01:00:15,559
you have to be that specific about guys

1487
01:00:13,849 --> 01:00:17,150
do you have to know what era they came

1488
01:00:15,559 --> 01:00:18,469
from and therefore allows you to make a

1489
01:00:17,150 --> 01:00:19,910
right language doesn't it you're gonna

1490
01:00:18,469 --> 01:00:21,679
cast them out you know you need to know

1491
01:00:19,909 --> 01:00:25,730
so you just went along being English

1492
01:00:21,679 --> 01:00:29,359
done you know ghosts yeah we mean

1493
01:00:25,730 --> 01:00:32,740
embarrassingly I think I mean if the if

1494
01:00:29,360 --> 01:00:35,030
the priest came in and said ghost ghost

1495
01:00:32,739 --> 01:00:36,949
depart this world blah blah blah and the

1496
01:00:35,030 --> 01:00:38,540
ghost said back in Latin Sorry mate

1497
01:00:36,949 --> 01:00:40,159
can't understand a bloody word you're

1498
01:00:38,539 --> 01:00:41,869
saying would be embarrassing Richard

1499
01:00:40,159 --> 01:00:43,279
that's not how it works oh it doesn't

1500
01:00:41,869 --> 01:00:45,440
work like that it doesn't work like that

1501
01:00:43,280 --> 01:00:47,000
you know don't you listen to what John

1502
01:00:45,440 --> 01:00:48,980
Edward says about things like that what

1503
01:00:47,000 --> 01:00:51,110
does he say he says he gets messages

1504
01:00:48,980 --> 01:00:53,599
that he can't always translate but he

1505
01:00:51,110 --> 01:00:56,240
can only understand pictures and images

1506
01:00:53,599 --> 01:00:58,549
and he has been asked directly in the

1507
01:00:56,239 --> 01:01:00,109
past what if the ghost speaks a

1508
01:00:58,550 --> 01:01:02,930
different language and he says but they

1509
01:01:00,110 --> 01:01:05,000
speak to me in images they don't speak a

1510
01:01:02,929 --> 01:01:06,589
language specifically

1511

01:01:05,000 --> 01:01:08,659
oh well that makes it all clear that i

1512
01:01:06,590 --> 01:01:10,640
wish' Lee thinking again this being from

1513
01:01:08,659 --> 01:01:13,730
Darby what if the ghosts answered with a

1514
01:01:10,639 --> 01:01:15,289
Mancunian accent that they could be

1515
01:01:13,730 --> 01:01:16,579
because that's quite hard to understand

1516
01:01:15,289 --> 01:01:19,969
it's a shame guess there's not much work

1517
01:01:16,579 --> 01:01:21,529
for Latin translators out there no not

1518
01:01:19,969 --> 01:01:23,839
not at least not interpreters you know

1519
01:01:21,530 --> 01:01:25,280
that's true but this may be as an itch

1520
01:01:23,840 --> 01:01:28,940
that could be opened up Dave what do you

1521
01:01:25,280 --> 01:01:31,070
think could be good yeah processes to

1522
01:01:28,940 --> 01:01:34,309
can translate ghosts now I would like to

1523
01:01:31,070 --> 01:01:37,309
put out a plea to listeners in the

1524
01:01:34,309 --> 01:01:40,670
sydney region if you know of or are

1525
01:01:37,309 --> 01:01:43,460

plagued by ghosts in your house or your

1526

01:01:40,670 --> 01:01:45,349

local area please contact us we'd love

1527

01:01:43,460 --> 01:01:48,579

to investigate wouldn't we're a job we

1528

01:01:45,349 --> 01:01:51,319

want everyone I wouldn't guide Liza

1529

01:01:48,579 --> 01:01:53,960

multiple languages week four languages

1530

01:01:51,320 --> 01:01:56,539

yeah we could maybe get a German goes

1531

01:01:53,960 --> 01:01:59,090

hey German goes to attach guys don't go

1532

01:01:56,539 --> 01:02:01,250

and she goes Dutch could be because the

1533

01:01:59,090 --> 01:02:03,530

Dutch have been here before cochlear

1534

01:02:01,250 --> 01:02:07,119

that's true yeah yeah well they couldn't

1535

01:02:03,530 --> 01:02:11,540

if you've got a dutch ghost that I want

1536

01:02:07,119 --> 01:02:14,089

I've come I'll bring my my pack my

1537

01:02:11,539 --> 01:02:16,699

backpack but with the Ghostbusters like

1538

01:02:14,090 --> 01:02:19,670

the one the back oh oh yeah well I want

1539

01:02:16,699 --> 01:02:22,339

to do this I wanna do you have the

1540
01:02:19,670 --> 01:02:25,430
overalls as well no i don't but i'll get

1541
01:02:22,340 --> 01:02:27,920
them it is a ghost of it i will so dress

1542
01:02:25,429 --> 01:02:30,440
up and i will go and sell out your ghost

1543
01:02:27,920 --> 01:02:33,139
problem don't german french english

1544
01:02:30,440 --> 01:02:34,670
whatever let's do this oh do you hear

1545
01:02:33,139 --> 01:02:36,650
about the superhero guys I think it'll

1546
01:02:34,670 --> 01:02:40,730
in Melbourne I don't think they're just

1547
01:02:36,650 --> 01:02:42,650
like fairly well-to-do Chuck's you set

1548
01:02:40,730 --> 01:02:44,179
up a league of super heroes and they

1549
01:02:42,650 --> 01:02:45,769
chipped in all their money and put the

1550
01:02:44,179 --> 01:02:46,849
TV out out i think it was in melbourne

1551
01:02:45,769 --> 01:02:49,009
you're gonna have to google as in fact

1552
01:02:46,849 --> 01:02:50,839
check it but they put out TV I've seen

1553
01:02:49,010 --> 01:02:52,010
any problems where your heroes if you've

1554
01:02:50,840 --> 01:02:54,050
got anything you want us to solve you

1555
01:02:52,010 --> 01:02:55,490
know ring this number and when they ring

1556
01:02:54,050 --> 01:02:57,350
up they would put their masks on and get

1557
01:02:55,489 --> 01:02:59,209
out in their car and go and like at cats

1558
01:02:57,349 --> 01:03:01,039
out of trees and actually superheroes

1559
01:02:59,210 --> 01:03:02,539
whatever you wanted them to do that come

1560
01:03:01,039 --> 01:03:05,059
and solve your problems like the goodies

1561
01:03:02,539 --> 01:03:07,460
doesn't think did it in real life how

1562
01:03:05,059 --> 01:03:09,619
also bought that's cool is that still

1563
01:03:07,460 --> 01:03:10,150
happening I'm not sure it was something

1564
01:03:09,619 --> 01:03:11,739
like sue

1565
01:03:10,150 --> 01:03:13,778
hero League of Australia or something if

1566
01:03:11,739 --> 01:03:16,358
you google at your father is Elastigirl

1567
01:03:13,778 --> 01:03:19,298
part of the story sorry is elastic girl

1568

01:03:16,358 --> 01:03:22,869
oh you need from the incredibles yes how

1569
01:03:19,298 --> 01:03:24,818
hot was she I mean when you're talking

1570
01:03:22,869 --> 01:03:27,849
cartoons asti she was almost Jessica

1571
01:03:24,818 --> 01:03:31,079
Rabbit well she was yeah well speaking

1572
01:03:27,849 --> 01:03:33,760
of ghosties can I talk about it a UFO

1573
01:03:31,079 --> 01:03:36,700
what is the wait wait wait wait speaking

1574
01:03:33,760 --> 01:03:40,210
of ghosties can I talk about a UFO and

1575
01:03:36,699 --> 01:03:43,269
you accuse me of bad segways no I that's

1576
01:03:40,210 --> 01:03:45,369
a Segway that connects UFOs and ghosties

1577
01:03:43,269 --> 01:03:47,318
go on well this is actually quite an old

1578
01:03:45,369 --> 01:03:49,539
story but it comes from also from

1579
01:03:47,318 --> 01:03:51,639
England from Lincolnshire and it's a

1580
01:03:49,539 --> 01:03:55,270
story about a wind farm turbine that was

1581
01:03:51,639 --> 01:03:58,239
damaged a couple of weeks ago by a

1582
01:03:55,269 --> 01:04:02,528

mystery aircraft and it was reported

1583

01:03:58,239 --> 01:04:04,598

that the three blues blades one of them

1584

01:04:02,528 --> 01:04:07,659

was bent and one of them actually ended

1585

01:04:04,599 --> 01:04:09,130

up on the ground and people reported

1586

01:04:07,659 --> 01:04:13,118

that at the time they saw a white light

1587

01:04:09,130 --> 01:04:14,680

flashing around very quickly and so UF

1588

01:04:13,119 --> 01:04:16,119

ologist said that they'd received many

1589

01:04:14,679 --> 01:04:18,308

reports of activity and they were

1590

01:04:16,119 --> 01:04:22,778

searching for clues how do you flesh

1591

01:04:18,309 --> 01:04:25,000

around slowly sorry go on do you want

1592

01:04:22,778 --> 01:04:27,119

more information about that a round

1593

01:04:25,000 --> 01:04:29,858

white light that seemed to be hovering

1594

01:04:27,119 --> 01:04:32,619

according to counsel only those in the

1595

01:04:29,858 --> 01:04:35,739

sky dear never really died like hovering

1596

01:04:32,619 --> 01:04:37,900

in the night no because it wouldn't be

1597
01:04:35,739 --> 01:04:40,509
the moon listening for no flashing by

1598
01:04:37,900 --> 01:04:43,059
slowly do not be you don't understand

1599
01:04:40,510 --> 01:04:45,609
let me let me explain the only way to

1600
01:04:43,059 --> 01:04:47,619
explain it is it wasn't a flare like

1601
01:04:45,608 --> 01:04:49,358
light it was just round white with a

1602
01:04:47,619 --> 01:04:51,579
slight red edge to it that seemed to be

1603
01:04:49,358 --> 01:04:54,608
over the wind turbine you have like a

1604
01:04:51,579 --> 01:05:01,329
great watches already you mean like a

1605
01:04:54,608 --> 01:05:02,650
happy face or something i don't know but

1606
01:05:01,329 --> 01:05:05,500
i have to tell you there were numerous

1607
01:05:02,650 --> 01:05:09,369
reports about this alleged white light

1608
01:05:05,500 --> 01:05:10,869
that with red outlines and a gentleman

1609
01:05:09,369 --> 01:05:13,660
by the name of rust callette from the

1610
01:05:10,869 --> 01:05:17,410
Flying Saucer bureau

1611
01:05:13,659 --> 01:05:21,129
this isn't the u.s. made up no I didn't

1612
01:05:17,409 --> 01:05:23,048
make that up this is from BBC News this

1613
01:05:21,130 --> 01:05:27,400
article because somebody had to make up

1614
01:05:23,048 --> 01:05:30,730
that name I think I was hoping it might

1615
01:05:27,400 --> 01:05:32,530
be you you didn't make it up it's here

1616
01:05:30,730 --> 01:05:34,568
it's got pink highlighter on it which

1617
01:05:32,530 --> 01:05:36,539
peeps know you know the BBC didn't make

1618
01:05:34,568 --> 01:05:40,449
it up because they don't have any humans

1619
01:05:36,539 --> 01:05:44,799
so sorry that guy must have been made a

1620
01:05:40,449 --> 01:05:48,788
flying saucer Bureau if it is he's even

1621
01:05:44,798 --> 01:05:50,769
uglier yeah well he said that this is

1622
01:05:48,789 --> 01:05:52,720
the second most reports of activity we

1623
01:05:50,769 --> 01:05:55,659
have ever had I've had over 30 phone

1624
01:05:52,719 --> 01:05:57,808
calls and emails and he says to hit two

1625

01:05:55,659 --> 01:06:01,509
blades any object must have been about

1626
01:05:57,809 --> 01:06:03,548
170 feet long now this is it does he

1627
01:06:01,510 --> 01:06:05,589
know that because of his expertise with

1628
01:06:03,548 --> 01:06:09,389
flying saucers and all the past events

1629
01:06:05,588 --> 01:06:12,639
we're flying sources of it the blades of

1630
01:06:09,389 --> 01:06:15,338
wind turbines I don't think so Iran it's

1631
01:06:12,639 --> 01:06:17,078
not mentioned in this article but I'm

1632
01:06:15,338 --> 01:06:19,179
not sure if that's the case I understand

1633
01:06:17,079 --> 01:06:22,210
how you would have to be a 170 feet long

1634
01:06:19,179 --> 01:06:24,788
to damage two blades on a wind turbine I

1635
01:06:22,210 --> 01:06:26,170
mean they come together in a hub you

1636
01:06:24,789 --> 01:06:27,940
think they're traveling very quickly

1637
01:06:26,170 --> 01:06:30,760
there they're rotating spirit of

1638
01:06:27,940 --> 01:06:32,679
spinning yeah oh yeah yeah well that's

1639
01:06:30,760 --> 01:06:35,190

that's true right but let me offer you a

1640

01:06:32,679 --> 01:06:38,169

month a more mundane explanation

1641

01:06:35,190 --> 01:06:40,480

remember like blaming it on you but it

1642

01:06:38,170 --> 01:06:41,889

wasn't playing song I don't know but let

1643

01:06:40,480 --> 01:06:44,710

me just offer you this and let you can

1644

01:06:41,889 --> 01:06:47,259

decide but this comes from HQ technical

1645

01:06:44,710 --> 01:06:50,230

experts okay medical experts have

1646

01:06:47,260 --> 01:06:52,450

suggested in fact dr. Peter shoe Bell

1647

01:06:50,230 --> 01:06:54,130

from the University of Nottingham is an

1648

01:06:52,449 --> 01:06:56,838

expert in the design and manufacture of

1649

01:06:54,130 --> 01:06:59,210

wind turn turbine blades

1650

01:06:56,838 --> 01:07:01,608

and he said that it would need to be the

1651

01:06:59,210 --> 01:07:05,088

equivalent of a ten-ton load to do that

1652

01:07:01,608 --> 01:07:07,098

kind of damage but if it was rotating or

1653

01:07:05,088 --> 01:07:09,710

hit by a moving object the force could

1654
01:07:07,099 --> 01:07:12,769
be a lot less so his explanation was

1655
01:07:09,710 --> 01:07:14,210
that it's definitely not a bird however

1656
01:07:12,768 --> 01:07:18,018
it could be ice thrown from a

1657
01:07:14,210 --> 01:07:22,210
neighboring turbine that struck it so

1658
01:07:18,018 --> 01:07:25,098
apparently according to dr. Peter cheval

1659
01:07:22,210 --> 01:07:27,559
most turbines have an anti-icing system

1660
01:07:25,099 --> 01:07:29,359
on the blades but sometimes they fail so

1661
01:07:27,559 --> 01:07:31,548
perhaps if it was spinning at enough of

1662
01:07:29,358 --> 01:07:33,710
a rate I just could have flown knows the

1663
01:07:31,548 --> 01:07:37,278
other one who I'll get the other turbine

1664
01:07:33,710 --> 01:07:40,068
possibly yeah yeah however the Ministry

1665
01:07:37,278 --> 01:07:41,509
of Defence in the UK and we've spoken

1666
01:07:40,068 --> 01:07:43,338
about them before actually because they

1667
01:07:41,509 --> 01:07:46,179
released their UFO files a few months

1668
01:07:43,338 --> 01:07:49,400
ago remember which was very interesting

1669
01:07:46,179 --> 01:07:52,308
they they haven't established whether

1670
01:07:49,400 --> 01:07:54,619
there was any sort of hostile or

1671
01:07:52,309 --> 01:07:56,620
unauthorized military activity in the

1672
01:07:54,619 --> 01:07:59,829
area at the time

1673
01:07:56,619 --> 01:08:05,909
so it seems like the jury's out on

1674
01:07:59,829 --> 01:08:09,989
whether it was a un phone probably

1675
01:08:05,909 --> 01:08:13,119
wasn't gonna starve to death being up

1676
01:08:09,989 --> 01:08:14,919
not coming back anytime soon going to be

1677
01:08:13,119 --> 01:08:18,369
an awful lot more UFOs if we just stop

1678
01:08:14,920 --> 01:08:19,930
identifying flying offense Omega if we

1679
01:08:18,369 --> 01:08:21,309
just stop identifying them be the be

1680
01:08:19,930 --> 01:08:24,909
UFOs everywhere and everybody would be

1681
01:08:21,310 --> 01:08:28,450
mmm that's a good point we should stop

1682

01:08:24,909 --> 01:08:31,329
identifying them yeah I by was up he

1683
01:08:28,449 --> 01:08:33,849
ready for the segue yes I saw a lot of

1684
01:08:31,329 --> 01:08:37,119
happy people today seat happy happy oh

1685
01:08:33,850 --> 01:08:40,120
yeah oh did you save the hapless would

1686
01:08:37,119 --> 01:08:43,359
be happier than me know are you know

1687
01:08:40,119 --> 01:08:45,159
very happy I went to the Macquarie

1688
01:08:43,359 --> 01:08:47,229
University as listeners would have heard

1689
01:08:45,159 --> 01:08:49,420
earlier in the show my brief report with

1690
01:08:47,229 --> 01:08:51,849
them doing the president of the

1691
01:08:49,420 --> 01:08:53,980
Macquarie skeptics I spend a day there

1692
01:08:51,850 --> 01:08:56,890
they're open week at their store there

1693
01:08:53,979 --> 01:09:00,089
the University um and the response was

1694
01:08:56,890 --> 01:09:03,390
just fantastic it was really heartening

1695
01:09:00,090 --> 01:09:06,069
lots of young students coming along

1696
01:09:03,390 --> 01:09:09,160

fascinated by things like spoon bending

1697

01:09:06,069 --> 01:09:10,869

water divining and it's the old stuff

1698

01:09:09,159 --> 01:09:12,880

that really got them now these these are

1699

01:09:10,869 --> 01:09:17,229

kids in there early their late teens

1700

01:09:12,880 --> 01:09:21,010

early 20s um and to them hoardings and

1701

01:09:17,229 --> 01:09:23,979

ghosties and UFOs and an old ESP that's

1702

01:09:21,010 --> 01:09:26,530

all really interesting stuff and I keep

1703

01:09:23,979 --> 01:09:28,089

trying to remind some skeptics out there

1704

01:09:26,529 --> 01:09:29,289

who said I'll we've already that's all

1705

01:09:28,090 --> 01:09:31,329

been debunked and we don't care about

1706

01:09:29,289 --> 01:09:33,750

that anymore anymore we need to move on

1707

01:09:31,329 --> 01:09:36,489

oh one of the points is no no there's

1708

01:09:33,750 --> 01:09:38,710

generations keep coming up and that's

1709

01:09:36,489 --> 01:09:40,479

what they are interested in so there's

1710

01:09:38,710 --> 01:09:42,250

that there's something there we need to

1711
01:09:40,479 --> 01:09:44,169
address i think what do you think yeah

1712
01:09:42,250 --> 01:09:45,699
like Loch mess for example a lot miss my

1713
01:09:44,170 --> 01:09:49,210
sister Bigfoot's been around for how

1714
01:09:45,699 --> 01:09:51,010
long forever it's true but the young

1715
01:09:49,210 --> 01:09:52,449
generations coming up they learn about

1716
01:09:51,010 --> 01:09:54,130
it they're interested in it they don't

1717
01:09:52,449 --> 01:09:56,729
know it's all being demand no that's

1718
01:09:54,130 --> 01:09:59,529
right and the Bermuda Triangle still a

1719
01:09:56,729 --> 01:10:00,909
an area of people being fascinated by it

1720
01:09:59,529 --> 01:10:02,409
and that's been debunked if you don't

1721
01:10:00,909 --> 01:10:04,449
know why it's been to bunch and how

1722
01:10:02,409 --> 01:10:06,309
you're still interested in that and i

1723
01:10:04,449 --> 01:10:09,849
have to say Richard spoon bending is

1724
01:10:06,310 --> 01:10:11,980
still spoon bending spoon bending is

1725
01:10:09,850 --> 01:10:13,930
still a great thing even though even

1726
01:10:11,979 --> 01:10:15,669
when you know how it's done it still

1727
01:10:13,930 --> 01:10:18,369
looks great when people it's good fun we

1728
01:10:15,670 --> 01:10:20,949
were bending I don't know I must have

1729
01:10:18,369 --> 01:10:22,869
been about 50 spoons today well again

1730
01:10:20,949 --> 01:10:24,220
and again and again because the the

1731
01:10:22,869 --> 01:10:26,470
young students have they've never seen

1732
01:10:24,220 --> 01:10:28,119
her before it's a great magic trick in

1733
01:10:26,470 --> 01:10:30,640
there completely freaked out it it's

1734
01:10:28,119 --> 01:10:33,130
it's a great Thank You mr. Geller thank

1735
01:10:30,640 --> 01:10:35,289
you thank you so much yes I'm sure mr.

1736
01:10:33,130 --> 01:10:36,340
Geller listen to the podcast I think

1737
01:10:35,289 --> 01:10:38,500
this is having the sort of this

1738
01:10:36,340 --> 01:10:40,270
fascinating yeah I think part of what

1739

01:10:38,500 --> 01:10:42,159
attracts not maybe not all of us but

1740
01:10:40,270 --> 01:10:44,020
some of us to like the kind of the

1741
01:10:42,159 --> 01:10:47,069
skeptical movement thing is that where it

1742
01:10:44,020 --> 01:10:49,570
is equally interested in in ideas like

1743
01:10:47,069 --> 01:10:53,109
Bigfoot and the Loch Ness monster and

1744
01:10:49,569 --> 01:10:54,670
the UFOs and we just cover it from a you

1745
01:10:53,109 --> 01:10:56,439
know an evidence-based angle but these

1746
01:10:54,670 --> 01:10:58,480
stories are just as much part of our

1747
01:10:56,439 --> 01:11:00,339
culture as they are they the true

1748
01:10:58,479 --> 01:11:01,629
believers culture that's a very good way

1749
01:11:00,340 --> 01:11:02,480
of looking at it they're part of our

1750
01:11:01,630 --> 01:11:04,909
culture

1751
01:11:02,479 --> 01:11:07,099
the other thing is that these things

1752
01:11:04,909 --> 01:11:10,699
seem to move with pop culture and that

1753
01:11:07,100 --> 01:11:13,880

like you know when sci-fi was all about

1754

01:11:10,699 --> 01:11:15,559

the Space Age and the space race you

1755

01:11:13,880 --> 01:11:19,100

know needed before was in the 50s and

1756

01:11:15,560 --> 01:11:20,539

the 60s there was loads of talk about

1757

01:11:19,100 --> 01:11:25,180

aliens and stuff and nowadays we've got

1758

01:11:20,539 --> 01:11:27,260

more things that kind of talk about

1759

01:11:25,180 --> 01:11:29,050

quantum physics and that's what you

1760

01:11:27,260 --> 01:11:31,610

people like Deepak Chopra taking a

1761

01:11:29,050 --> 01:11:34,699

quantum theory but you know there's this

1762

01:11:31,609 --> 01:11:37,399

is it's not unique we see around all

1763

01:11:34,699 --> 01:11:41,599

these things that are pits in UFOs and

1764

01:11:37,399 --> 01:11:44,689

the alien the abducting aliens and and I

1765

01:11:41,600 --> 01:11:46,700

mentioned it in my autism second a few

1766

01:11:44,689 --> 01:11:49,159

few weeks two weeks ago yeah the central

1767

01:11:46,699 --> 01:11:50,929

regions that are culturally related and

1768
01:11:49,159 --> 01:11:53,539
you find that as the culture advances

1769
01:11:50,930 --> 01:11:55,460
these things suddenly appear you see it

1770
01:11:53,539 --> 01:11:57,769
around the vaccine so have the reasons

1771
01:11:55,460 --> 01:12:00,980
for objecting to vaccines differ from

1772
01:11:57,770 --> 01:12:02,780
country to country hmm sure and these

1773
01:12:00,979 --> 01:12:04,939
are it's quite common when when you

1774
01:12:02,779 --> 01:12:07,519
don't think critically just you're just

1775
01:12:04,939 --> 01:12:10,789
affected by your environment you make

1776
01:12:07,520 --> 01:12:11,619
your wolf it with whatever you know so

1777
01:12:10,789 --> 01:12:14,019
it's

1778
01:12:11,618 --> 01:12:15,458
it's not really unique I was reading a

1779
01:12:14,019 --> 01:12:16,689
fundie site I'll we're back onto the

1780
01:12:15,458 --> 01:12:17,828
vision again I wasn't look if you're

1781
01:12:16,689 --> 01:12:19,059
really into the religion stuff come and

1782
01:12:17,828 --> 01:12:21,009
listen to me I'll catechol masters we

1783
01:12:19,059 --> 01:12:22,090
talk about this all the time breeze but

1784
01:12:21,010 --> 01:12:23,918
there was a car the other day saying

1785
01:12:22,090 --> 01:12:25,269
gays do off the rights to get married a

1786
01:12:23,918 --> 01:12:31,328
gay man can carry it and marry a gay

1787
01:12:25,269 --> 01:12:36,189
woman anytime you want to see me anymore

1788
01:12:31,328 --> 01:12:38,248
we work I am NOT going to provide any

1789
01:12:36,189 --> 01:12:40,418
links actually on the young Australians

1790
01:12:38,248 --> 01:12:42,458
Australian skeptics website they have a

1791
01:12:40,418 --> 01:12:44,918
link or they have it embedded right the

1792
01:12:42,458 --> 01:12:49,148
younger strange Genghis many skeptics of

1793
01:12:44,918 --> 01:12:51,819
the video of Fred Phelps fred phelps

1794
01:12:49,149 --> 01:12:54,519
went on a tirade against Australia as he

1795
01:12:51,819 --> 01:12:56,828
has easiest one that's nice about that

1796

01:12:54,519 --> 01:12:58,510
video it's a very troubling video if you

1797
01:12:56,828 --> 01:13:00,849
don't know who fred phelps is though you

1798
01:12:58,510 --> 01:13:04,149
don't realize that he's regularly forget

1799
01:13:00,849 --> 01:13:05,889
to take his medication but if you but if

1800
01:13:04,149 --> 01:13:07,929
you don't know it's very troubling

1801
01:13:05,889 --> 01:13:09,340
because he talks about how wonderful it

1802
01:13:07,929 --> 01:13:12,248
is that australians have been burning

1803
01:13:09,340 --> 01:13:15,038
and because of you got the stuff far in

1804
01:13:12,248 --> 01:13:18,328
this podcast know that i've been doing a

1805
01:13:15,038 --> 01:13:22,090
bit of work on the fires and go yes and

1806
01:13:18,328 --> 01:13:23,738
people you know hurt and flying in

1807
01:13:22,090 --> 01:13:26,708
hospitals and grieving the dead and this

1808
01:13:23,738 --> 01:13:29,018
guy goes on this tirade and the Westboro

1809
01:13:26,708 --> 01:13:33,188
Baptist Church were going to pick it the

1810
01:13:29,019 --> 01:13:35,110

memorial health roughly Saturday young

1811

01:13:33,189 --> 01:13:38,019

skeptics went along the name and they

1812

01:13:35,109 --> 01:13:41,738

try to locate them and unfortunately for

1813

01:13:38,019 --> 01:13:44,349

the Westboro Baptist Church people they

1814

01:13:41,738 --> 01:13:48,198

didn't they were not found I I have an

1815

01:13:44,349 --> 01:13:51,578

idea that or have a this

1816

01:13:48,198 --> 01:13:54,138

thought that in Australia they would

1817

01:13:51,578 --> 01:13:57,458

people would not be as tolerant as they

1818

01:13:54,139 --> 01:13:59,659

are in America of this kind of religious

1819

01:13:57,458 --> 01:14:01,779

madness however if you want to see the

1820

01:13:59,658 --> 01:14:03,649

press release of what they said about

1821

01:14:01,779 --> 01:14:06,559

picketing the national day of mourning

1822

01:14:03,649 --> 01:14:08,029

you had a rat bags calm and you can see

1823

01:14:06,559 --> 01:14:10,248

the floor press release it's really

1824

01:14:08,029 --> 01:14:12,649

offensive / about is getting publicity

1825
01:14:10,248 --> 01:14:14,179
for that course it didn't matter whether

1826
01:14:12,649 --> 01:14:16,219
they actually intended now either be

1827
01:14:14,179 --> 01:14:18,618
arena they point is by making this press

1828
01:14:16,219 --> 01:14:19,880
release they got onto the news in again

1829
01:14:18,618 --> 01:14:23,389
they're doing for the publicity that's a

1830
01:14:19,880 --> 01:14:24,920
good point so cut this out of the

1831
01:14:23,389 --> 01:14:26,538
podcast Richie because then what happens

1832
01:14:24,920 --> 01:14:28,099
to their not about getting converse so

1833
01:14:26,538 --> 01:14:29,719
you know they know very well that we're

1834
01:14:28,099 --> 01:14:32,538
not gonna go to the Westboro Baptists of

1835
01:14:29,719 --> 01:14:36,800
the sales outrageous stuff and function

1836
01:14:32,538 --> 01:14:39,498
notice they are nothing I mean yeah

1837
01:14:36,800 --> 01:14:41,420
matter yeah metaphorically speaking but

1838
01:14:39,498 --> 01:14:43,279
good on the young Australian skeptics

1839
01:14:41,420 --> 01:14:46,118
having a girl and now they've got a very

1840
01:14:43,279 --> 01:14:47,899
good podcast I love the young Australian

1841
01:14:46,118 --> 01:14:50,359
absolutely and they listen they listen

1842
01:14:47,899 --> 01:14:52,158
to this and the colossal I mean we're

1843
01:14:50,359 --> 01:14:55,339
all the same we're all on the same we're

1844
01:14:52,158 --> 01:14:58,129
all in the same boat row direction hello

1845
01:14:55,340 --> 01:15:00,199
hello pseudo-scientists hello hello

1846
01:14:58,130 --> 01:15:06,260
pseudo-scientists hello Jack can I ask

1847
01:15:00,198 --> 01:15:07,549
Elliot yeah maybe maybe if I ask him

1848
01:15:06,260 --> 01:15:13,650
really nice little put Dave a happy

1849
01:15:07,550 --> 01:15:17,100
singer calm it had to happen

1850
01:15:13,649 --> 01:15:18,119
all right well with that friendly note

1851
01:15:17,100 --> 01:15:19,500
to our good friends of the young

1852
01:15:18,119 --> 01:15:20,970
Australian skeptics I'd like to think

1853

01:15:19,500 --> 01:15:23,670
they've they're happy singer of course

1854
01:15:20,970 --> 01:15:25,800
thank you for having me any time and it

1855
01:15:23,670 --> 01:15:27,890
runs again thank you thanks ritter and

1856
01:15:25,800 --> 01:15:30,720
thank you for grain of salt good as ever

1857
01:15:27,890 --> 01:15:32,369
and as the door shuts and the corner

1858
01:15:30,720 --> 01:15:34,949
thank you rachel done what thank you and

1859
01:15:32,369 --> 01:15:37,470
thank you for dr. AG reports thank you

1860
01:15:34,949 --> 01:15:41,869
thank you and until next time this has

1861
01:15:37,470 --> 01:15:41,869
been the thing tank cheers cheers Cheers

1862
01:16:00,579 --> 01:16:05,600
Richard wake up wake up her wake up it's

1863
01:16:03,590 --> 01:16:09,770
the end of the show oh sorry it was so

1864
01:16:05,600 --> 01:16:11,390
so intense I fell asleep I knobs that

1865
01:16:09,770 --> 01:16:13,580
we've been working your too hard which

1866
01:16:11,390 --> 01:16:15,110
is you're wearing too many hats you're a

1867
01:16:13,579 --> 01:16:17,750

jack of too many trades and a master of

1868

01:16:15,109 --> 01:16:18,979

all of them it's just too much so you're

1869

01:16:17,750 --> 01:16:21,289

allowed to have a power nap every day

1870

01:16:18,979 --> 01:16:23,149

thanks I do appreciate appreciate that a

1871

01:16:21,289 --> 01:16:24,769

power nap recharge the batteries I'm

1872

01:16:23,149 --> 01:16:26,809

ready for the next show in one week

1873

01:16:24,770 --> 01:16:29,120

which will be a special show yes well

1874

01:16:26,810 --> 01:16:31,160

any any news on next weekend oh yeah I

1875

01:16:29,119 --> 01:16:33,409

black can't say it such such big news

1876

01:16:31,159 --> 01:16:34,909

out our special guest little bit of a

1877

01:16:33,409 --> 01:16:36,590

secret at the moment they said not to

1878

01:16:34,909 --> 01:16:38,750

mention it yet in other words i'm still

1879

01:16:36,590 --> 01:16:40,699

working that out all right yeah I don't

1880

01:16:38,750 --> 01:16:42,500

tell listeners that I think you really

1881

01:16:40,698 --> 01:16:44,359

got something lined up no no it's gonna

1882
01:16:42,500 --> 01:16:46,609
be good as usual we always get good

1883
01:16:44,359 --> 01:16:48,079
gifts here on the zona do and now thanks

1884
01:16:46,609 --> 01:16:50,059
listeners for for hanging in there

1885
01:16:48,079 --> 01:16:51,529
because so that the show is going really

1886
01:16:50,060 --> 01:16:53,870
well we're getting lots of good feedback

1887
01:16:51,529 --> 01:16:55,670
and we're really enjoying doing it and

1888
01:16:53,869 --> 01:16:59,059
thanks for leaving comments on our blog

1889
01:16:55,670 --> 01:17:02,119
and our comments page all at ww skeptics

1890
01:16:59,060 --> 01:17:03,560
own TV yes that that too and and don't

1891
01:17:02,119 --> 01:17:05,269
forget also there's a little paypal

1892
01:17:03,560 --> 01:17:07,730
donation button there because of course

1893
01:17:05,270 --> 01:17:09,290
we're all volunteers and and there are

1894
01:17:07,729 --> 01:17:10,819
expenses in running a show like this so

1895
01:17:09,289 --> 01:17:13,130
if you do enjoy the show and you'd like

1896
01:17:10,819 --> 01:17:14,988
to see so keep doing what we do and you

1897
01:17:13,130 --> 01:17:16,640
know using these high-tech gadgets that

1898
01:17:14,988 --> 01:17:18,259
we use it'd be nice to just get a little

1899
01:17:16,640 --> 01:17:20,350
bit of a subsidy from you so you go on

1900
01:17:18,260 --> 01:17:23,480
the paypal it really does help because

1901
01:17:20,350 --> 01:17:25,070
owing to the generosity of our listeners

1902
01:17:23,479 --> 01:17:26,869
I've been able to get three of our

1903
01:17:25,069 --> 01:17:29,869
reporters complete digital recording

1904
01:17:26,869 --> 01:17:31,789
kits oh that is also so it's really good

1905
01:17:29,869 --> 01:17:33,619
thank you everybody yes hence the hence

1906
01:17:31,789 --> 01:17:35,210
the show going on words it upwards

1907
01:17:33,619 --> 01:17:36,529
towards annapolis all right we'll look

1908
01:17:35,210 --> 01:17:39,409
however great when we'll see you next

1909
01:17:36,529 --> 01:17:42,039
week a Richard yep alrighty buzzer thank

1910

01:17:39,409 --> 01:17:42,039
you see ya

1911
01:17:42,760 --> 01:17:48,949
you've been listening to the skeptic

1912
01:17:45,170 --> 01:17:52,159
zone visit our website at www skipped

1913
01:17:48,949 --> 01:17:55,869
exhume TV for comments contacts and

1914
01:17:52,159 --> 01:17:55,869
extra video reports

1915
01:17:56,189 --> 01:17:59,189
skids

1916
01:18:14,239 --> 01:18:16,269
I