

**SKEPTIC
ZONE**



**THINKING CAPS
MUST BE WORN
IN THIS AREA**

The
Podcast
from
Australia
for
Science
and
Reason

www.skepticzone.tv

1
00:00:12,970 --> 00:00:09,470
welcome to the skeptic zone the podcast

2
00:00:16,790 --> 00:00:12,980
from Australia for science and reason

3
00:00:21,070 --> 00:00:16,800
yuria hosts Richard Saunders and Stefan

4
00:00:28,190 --> 00:00:23,900
Richard it's wonderful to be here again

5
00:00:30,650 --> 00:00:28,200
in the zone episode 19 and they said a

6
00:00:32,750 --> 00:00:30,660
wooden last past episode 19 oh this is

7
00:00:35,240 --> 00:00:32,760
episode 19 whoops no thanks that was

8
00:00:37,160 --> 00:00:35,250
about 18 wait are we showed them they

9
00:00:39,020 --> 00:00:37,170
didn't we we did and here we are back

10
00:00:41,780 --> 00:00:39,030
again it's great to be here what another

11
00:00:44,420 --> 00:00:41,790
another great show lined up to I reckon

12
00:00:47,510 --> 00:00:44,430
now I spoke to dr. Carolyn what now she

13
00:00:48,890 --> 00:00:47,520

studies parapsychology at the University

14

00:00:50,510 --> 00:00:48,900

of Edinburgh hang on you might have to

15

00:00:53,200 --> 00:00:50,520

explain that I don't have my Wikipedia

16

00:00:54,950 --> 00:00:53,210

in front of me a parapsychology what I

17

00:00:57,320 --> 00:00:54,960

thought you meant you wanted me to

18

00:00:59,840 --> 00:00:57,330

explain Edinburgh ah I said that needs a

19

00:01:02,600 --> 00:00:59,850

lot of explaining as a freaky locals

20

00:01:04,670 --> 00:01:02,610

there yeah parapsychology yes sort of

21

00:01:07,010 --> 00:01:04,680

looking scientifically at the the

22

00:01:08,840 --> 00:01:07,020

strange in the mysterious and she does a

23

00:01:10,790 --> 00:01:08,850

course about it a sort of a mail order

24

00:01:12,649 --> 00:01:10,800

or internet online course and we'll be

25

00:01:14,840 --> 00:01:12,659

finding out all about that so is that

26

00:01:16,790 --> 00:01:14,850

kind with a skeptical bent or with a bit

27

00:01:18,950 --> 00:01:16,800

of a semi believe event or a bit of a

28

00:01:20,270 --> 00:01:18,960

benign or was it a bit of everything

29

00:01:23,210 --> 00:01:20,280

like the objects that have an open mind

30

00:01:25,730 --> 00:01:23,220

the better now because she kind of

31

00:01:28,220 --> 00:01:25,740

follow subscribe to any of these things

32

00:01:31,370 --> 00:01:28,230

or is it just purely investigation it's

33

00:01:33,530 --> 00:01:31,380

more or less giving people a background

34

00:01:35,210 --> 00:01:33,540

about what parapsychology is all about

35

00:01:37,610 --> 00:01:35,220

using the scientific method of course

36

00:01:39,740 --> 00:01:37,620

excellent yeah excellent now that's

37

00:01:42,100 --> 00:01:39,750

followed by a grain of salt with Iran so

38

00:01:44,600 --> 00:01:42,110

give he's going to be looking at the

39

00:01:47,240 --> 00:01:44,610

victorian bushfires i would i would

40

00:01:49,160 --> 00:01:47,250

hazard a guess that pretty much everyone

41

00:01:51,170 --> 00:01:49,170

listening around the world would have

42

00:01:54,320 --> 00:01:51,180

heard about this well we had a great

43

00:01:56,390 --> 00:01:54,330

great disaster locally here but yes

44

00:02:00,530 --> 00:01:56,400

certainly the the news is spread like

45

00:02:02,510 --> 00:02:00,540

wildfire well partner yes after that I'm

46

00:02:04,220 --> 00:02:02,520

going to be chatting with Dwayne

47

00:02:06,410 --> 00:02:04,230

Hammacher he's the president of the

48

00:02:09,259 --> 00:02:06,420

Macquarie University skeptics I was

49

00:02:11,059 --> 00:02:09,269

there just the other day to be on their

50

00:02:12,710 --> 00:02:11,069

skeptics boo that they're open week at

51
00:02:14,900 --> 00:02:12,720
the Macquarie University and I must have

52
00:02:16,460 --> 00:02:14,910
bent about 50 spoon really would have

53
00:02:17,900 --> 00:02:16,470
been a bit of a celebrity guest there

54
00:02:20,089 --> 00:02:17,910
wouldn't you well that's what they said

55
00:02:21,670 --> 00:02:20,099
you know they're a good bunch X yeah I

56
00:02:24,470 --> 00:02:21,680
think I was there for one of your really

57
00:02:26,030 --> 00:02:24,480
early presentation that a great crowd

58
00:02:28,040 --> 00:02:26,040
yeah you there for one of my talks a

59
00:02:30,470 --> 00:02:28,050
great a great great great bunch of

60
00:02:32,270 --> 00:02:30,480
skeptics we have dr. rachy reports

61
00:02:34,050 --> 00:02:32,280
looking at the fun and games of the

62
00:02:36,839 --> 00:02:34,060
anti-vaccination loons I

63
00:02:39,750 --> 00:02:36,849

and learns what do you mean what we'll

64

00:02:41,910 --> 00:02:39,760

ask dr. 'he who shoot ellis does Oliver

65

00:02:44,309 --> 00:02:41,920

and wrap up the show we've got the think

66

00:02:45,570 --> 00:02:44,319

tank of course quite a popular segment

67

00:02:47,250 --> 00:02:45,580

from some of the reports we've been

68

00:02:48,750 --> 00:02:47,260

getting yeah we get people you mailing

69

00:02:50,670 --> 00:02:48,760

us wanting to be in the think tank

70

00:02:52,589 --> 00:02:50,680

unfortunately they're like in the United

71

00:02:54,300 --> 00:02:52,599

States so I say well if you want to fly

72

00:02:57,360 --> 00:02:54,310

over and join us in the club having an

73

00:02:59,430 --> 00:02:57,370

airfare and hotel bill won't fix now

74

00:03:00,990 --> 00:02:59,440

apart from that I mean if that's not

75

00:03:03,780 --> 00:03:01,000

enough my week's been taken up by

76
00:03:05,910 --> 00:03:03,790
helping one of our reporters dr. Karen

77
00:03:07,380 --> 00:03:05,920
stalls now who's now the editor of the

78
00:03:09,390 --> 00:03:07,390
skeptic magazine in putting that

79
00:03:11,520 --> 00:03:09,400
together are two great publication about

80
00:03:12,809 --> 00:03:11,530
to become even better about to become

81
00:03:15,600 --> 00:03:12,819
even better they'll be hitting our

82
00:03:17,039 --> 00:03:15,610
subscribers are next week I think we

83
00:03:20,070 --> 00:03:17,049
can you been using some high-tech

84
00:03:21,690 --> 00:03:20,080
software like indesign and will yes well

85
00:03:23,460 --> 00:03:21,700
it's pretty techie stuff Richard icky

86
00:03:26,100 --> 00:03:23,470
stuff notice I don't how you do it all

87
00:03:28,140 --> 00:03:26,110
this concern is east on the TV show the

88
00:03:30,420 --> 00:03:28,150

one is he's got the podcast happening

89

00:03:32,610 --> 00:03:30,430

the zone he's got the mag happening he's

90

00:03:34,800 --> 00:03:32,620

got the website how do you do it I don't

91

00:03:36,630 --> 00:03:34,810

think I do enough I don't think I do

92

00:03:39,150 --> 00:03:36,640

enough so look I tell you what I'm gonna

93

00:03:40,890 --> 00:03:39,160

go have a little lie down now maybe get

94

00:03:43,410 --> 00:03:40,900

some Reiki that's a good idea maybe take

95

00:03:44,610 --> 00:03:43,420

some hobo food yeah homeopathic remedies

96

00:03:46,590 --> 00:03:44,620

would be lovely for you may be a bit of

97

00:03:49,020 --> 00:03:46,600

gut flush bit of the old good old gut

98

00:03:50,490 --> 00:03:49,030

feeling cleansing 123 gut flusher exert

99

00:03:52,289 --> 00:03:50,500

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

100

00:03:54,599 --> 00:03:52,299

back no worries have a good nap Richard

101
00:04:06,650 --> 00:03:54,609
and our folks enjoy the program episode

102
00:04:13,380 --> 00:04:09,809
dr. Carolyn wat is a senior lecturer of

103
00:04:16,590 --> 00:04:13,390
psychology and Edinburgh University she

104
00:04:22,530 --> 00:04:16,600
also specializes in parapsychology and

105
00:04:25,320 --> 00:04:22,540
runs an online course and we have

106
00:04:27,030 --> 00:04:25,330
Carolyn on the line now from M bruh good

107
00:04:30,090 --> 00:04:27,040
good morning is it or afternoon or

108
00:04:32,010 --> 00:04:30,100
evening good evening from Edinburgh and

109
00:04:36,540 --> 00:04:32,020
good morning from Sydney i love these

110
00:04:39,390 --> 00:04:36,550
time zones I'm very curious indeed about

111
00:04:42,000 --> 00:04:39,400
what you do there the parapsychology and

112
00:04:44,820 --> 00:04:42,010
first of all can you spend a moment in

113
00:04:48,600 --> 00:04:44,830

trying to dispel some of the myths and

114

00:04:52,140 --> 00:04:48,610

stereotypes around what you do mm-hmm

115

00:04:55,469 --> 00:04:52,150

and well I'm not a Ghostbuster and I'm

116

00:04:58,230 --> 00:04:55,479

an academic my job title is actually

117

00:05:00,810 --> 00:04:58,240

senior lecturer in psychology but my

118

00:05:02,820 --> 00:05:00,820

area of expertise is parapsychology so a

119

00:05:05,460 --> 00:05:02,830

lot of what I do is just regular you

120

00:05:07,469 --> 00:05:05,470

know I teach statistics I supervise

121

00:05:11,580 --> 00:05:07,479

students doing postgraduate degrees and

122

00:05:13,320 --> 00:05:11,590

undergraduate degrees and the research i

123

00:05:15,360 --> 00:05:13,330

do some of it is about psychology of

124

00:05:17,520 --> 00:05:15,370

belief in the paranormal which is pretty

125

00:05:20,909 --> 00:05:17,530

straightforward psychology and some of

126

00:05:23,760 --> 00:05:20,919

it is about testing the hypothesis that

127

00:05:26,760 --> 00:05:23,770

people have paranormal abilities so it's

128

00:05:29,520 --> 00:05:26,770

a bit of a mixture and it's never going

129

00:05:31,380 --> 00:05:29,530

out and sitting in a squizzle a haunted

130

00:05:34,529 --> 00:05:31,390

location waiting things to go bump in

131

00:05:36,480 --> 00:05:34,539

the night oh that's a video I do that

132

00:05:38,370 --> 00:05:36,490

sometimes and I'm still waiting for that

133

00:05:40,920 --> 00:05:38,380

bump to occur but sometimes I get out

134

00:05:43,320 --> 00:05:40,930

there and do that what when you say you

135

00:05:44,909 --> 00:05:43,330

do some of the testing man you if you're

136

00:05:46,830 --> 00:05:44,919

not waiting for things to go bump in the

137

00:05:48,180 --> 00:05:46,840

night exactly what sort of tests or

138

00:05:52,620 --> 00:05:48,190

examinations have you've been involved

139

00:05:55,260 --> 00:05:52,630

with well I mean I study that recently

140

00:05:56,700 --> 00:05:55,270

and finished is with a postgraduate

141

00:05:59,550 --> 00:05:56,710

student of mine where we're looking into

142

00:06:01,980 --> 00:05:59,560

the the claim of distance healing or

143

00:06:06,000 --> 00:06:01,990

psychic healing and we did a little

144

00:06:09,659 --> 00:06:06,010

trial with arthritis patients where we

145

00:06:11,520 --> 00:06:09,669

had a double-blinded design where the

146

00:06:13,750 --> 00:06:11,530

patients didn't know whether or not they

147

00:06:15,580 --> 00:06:13,760

were receiving distant healing

148

00:06:17,980 --> 00:06:15,590

and so there would be a test of the

149

00:06:19,840 --> 00:06:17,990

hypothesis that a person who claims that

150

00:06:21,910 --> 00:06:19,850

they can heal someone at a distance

151

00:06:24,520 --> 00:06:21,920

whether that actually has any effect

152

00:06:28,540 --> 00:06:24,530

when you ask that the patients in the

153

00:06:30,490 --> 00:06:28,550

trial to report their pain symptoms and

154

00:06:32,290 --> 00:06:30,500

their well-being are subject to report

155

00:06:34,600 --> 00:06:32,300

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

156

00:06:37,630 --> 00:06:34,610

example the kind of thing that I've done

157

00:06:41,620 --> 00:06:37,640

recently do you find that many people

158

00:06:44,470 --> 00:06:41,630

who are involved these sort of tests

159

00:06:46,660 --> 00:06:44,480

especially students are somewhat hopeful

160

00:06:48,850 --> 00:06:46,670

or optimistic of a positive outcome or

161

00:06:52,120 --> 00:06:48,860

are they simply ready to accept the

162

00:06:54,640 --> 00:06:52,130

outcome be it positive or negative you

163

00:06:56,320 --> 00:06:54,650

mean notnot volunteers interpreted in

164

00:07:00,070 --> 00:06:56,330

experiments for the actual students who

165

00:07:01,570 --> 00:07:00,080

are running the studies yeah yeah well

166

00:07:03,760 --> 00:07:01,580

let me let me reflect rephrase that

167

00:07:06,820 --> 00:07:03,770

maybe both I mean maybe you get people

168

00:07:09,660 --> 00:07:06,830

who are volunteering who also have

169

00:07:12,670 --> 00:07:09,670

preconceptions and expect one thing I

170

00:07:15,190 --> 00:07:12,680

would say the volunteers they tend to be

171

00:07:16,750 --> 00:07:15,200

curious but they're curious about the

172

00:07:19,510 --> 00:07:16,760

paranormal limit they may have had the

173

00:07:22,690 --> 00:07:19,520

odd experience but they don't generally

174

00:07:24,490 --> 00:07:22,700

regard themselves as psychic so that we

175

00:07:26,890 --> 00:07:24,500

don't work with people who come to

176

00:07:28,480 --> 00:07:26,900

edinburgh and say I'm psychic let me

177

00:07:30,820 --> 00:07:28,490

show you how psychic i am under

178

00:07:33,520 --> 00:07:30,830

controlled conditions so we don't work

179

00:07:36,190 --> 00:07:33,530

with us to person and the students are

180

00:07:39,550 --> 00:07:36,200

they're very very much I mean some

181

00:07:41,890 --> 00:07:39,560

students and I think that the the best

182

00:07:43,390 --> 00:07:41,900

approach to have is this on the proper

183

00:07:45,880 --> 00:07:43,400

scientific approach which should be

184

00:07:47,560 --> 00:07:45,890

questioning you know or not that's a

185

00:07:49,060 --> 00:07:47,570

skeptical approach actually it's

186

00:07:51,610 --> 00:07:49,070

questioning it's just saying well I'm

187

00:07:54,220 --> 00:07:51,620

going to test this hypothesis what does

188

00:07:55,900 --> 00:07:54,230

the data tell us and that's just

189

00:07:58,570 --> 00:07:55,910

straight for science as far as I'm

190

00:08:01,180 --> 00:07:58,580

concerned you're absolutely right do you

191

00:08:04,810 --> 00:08:01,190

suffer doing what you do there do you

192

00:08:06,610 --> 00:08:04,820

suffer the jibes and jokes from any

193

00:08:08,590 --> 00:08:06,620

other people or Department saying you're

194

00:08:10,990 --> 00:08:08,600

the molder of the veteran Barry

195

00:08:14,290 --> 00:08:11,000

University of X file jokes will silly

196

00:08:15,580 --> 00:08:14,300

things like that no not from my

197

00:08:17,980 --> 00:08:15,590

colleagues they probably know better

198

00:08:20,230 --> 00:08:17,990

than to try to do that and you do get

199

00:08:21,879 --> 00:08:20,240

the odds corny joke about oh didn't you

200

00:08:24,369 --> 00:08:21,889

see that coming

201
00:08:27,700 --> 00:08:24,379
but no I mean I think that those who

202
00:08:29,709 --> 00:08:27,710
know what what I do respect the work

203
00:08:32,500 --> 00:08:29,719
they do they can see that you were

204
00:08:35,170 --> 00:08:32,510
attempting to do proper science in a

205
00:08:36,940 --> 00:08:35,180
responsible way and it's a very good

206
00:08:38,920 --> 00:08:36,950
subject parapsychology is a great

207
00:08:41,319 --> 00:08:38,930
subject for teaching students about

208
00:08:42,790 --> 00:08:41,329
methodology because if you're going to

209
00:08:45,490 --> 00:08:42,800
test the claim that there's this

210
00:08:47,319 --> 00:08:45,500
supposed ability to communicate through

211
00:08:48,610 --> 00:08:47,329
soft alone you've got to be really

212
00:08:51,610 --> 00:08:48,620
careful about how you design your

213
00:08:53,590 --> 00:08:51,620

experiments so I think students can

214

00:08:56,710 --> 00:08:53,600

layer not learn a lot about methodology

215

00:08:59,800 --> 00:08:56,720

in science through testing paranormal

216

00:09:03,009 --> 00:08:59,810

hypotheses that's very interesting you

217

00:09:05,139 --> 00:09:03,019

should say that because when I'm not

218

00:09:08,139 --> 00:09:05,149

busily working on the skeptics oh and of

219

00:09:09,819 --> 00:09:08,149

course I'm doing a show for students

220

00:09:11,380 --> 00:09:09,829

school show here in Australia called

221

00:09:13,240 --> 00:09:11,390

mystery investigators and one of the

222

00:09:16,180 --> 00:09:13,250

tests we do live on stage for high

223

00:09:19,150 --> 00:09:16,190

school students to demonstrate how a

224

00:09:21,519 --> 00:09:19,160

double-blind test works is we use the

225

00:09:25,329 --> 00:09:21,529

the claim of water dowsing or water

226

00:09:26,380 --> 00:09:25,339

divining and the kids are really get a

227

00:09:28,750 --> 00:09:26,390

kick out of it because it's a

228

00:09:30,460 --> 00:09:28,760

fascinating claim the sticks wobble and

229

00:09:31,990 --> 00:09:30,470

move and before they know what they're

230

00:09:34,900 --> 00:09:32,000

being taught how to do a double-blind

231

00:09:36,100 --> 00:09:34,910

test so I I think I think personally and

232

00:09:37,780 --> 00:09:36,110

I guess I'm biased like this but I

233

00:09:40,090 --> 00:09:37,790

really think it's a great way to teach

234

00:09:42,960 --> 00:09:40,100

science because you've got the hook

235

00:09:45,400 --> 00:09:42,970

there which engages the imagination

236

00:09:47,800 --> 00:09:45,410

definitely it's it's something that just

237

00:09:50,590 --> 00:09:47,810

creates bums on seats as you would say

238

00:09:52,900 --> 00:09:50,600

students love it and and the students in

239

00:09:54,519 --> 00:09:52,910

my course that I teach a final year

240

00:09:56,470 --> 00:09:54,529

undergraduate course in parapsychology

241

00:09:58,900 --> 00:09:56,480

and although it's not designed as a

242

00:09:59,980 --> 00:09:58,910

methodology course they all come out of

243

00:10:02,079 --> 00:09:59,990

it saying that they've actually learned

244

00:10:03,460 --> 00:10:02,089

you know incidentally they've learned a

245

00:10:05,250 --> 00:10:03,470

huge amount about methodology in

246

00:10:07,990 --> 00:10:05,260

psychology but by studying

247

00:10:09,639 --> 00:10:08,000

parapsychology and and what you're

248

00:10:12,009 --> 00:10:09,649

saying about blind methods apparently

249

00:10:14,439 --> 00:10:12,019

and I'm not a historian but average

250

00:10:18,060 --> 00:10:14,449

historians who said that the the first

251
00:10:20,579 --> 00:10:18,070
use of blind methods in science was in

252
00:10:23,740 --> 00:10:20,589
testing the claim of mesmerist seeeeee

253
00:10:25,900 --> 00:10:23,750
that they could influence a patient at a

254
00:10:28,300 --> 00:10:25,910
distance and that they did this by

255
00:10:30,280 --> 00:10:28,310
putting a cotton or a barrier between

256
00:10:32,980 --> 00:10:30,290
the mesmerist and the patient and that

257
00:10:35,330 --> 00:10:32,990
was a claim of a paranormal influence

258
00:10:37,670 --> 00:10:35,340
and it just shows you that and

259
00:10:39,530 --> 00:10:37,680
it can push push methodology no

260
00:10:42,440 --> 00:10:39,540
straightforward things like placebo

261
00:10:44,840 --> 00:10:42,450
effects and using blind methods can

262
00:10:48,320 --> 00:10:44,850
arise out of testing unusual or

263
00:10:51,950 --> 00:10:48,330

anomalous claims absolutely and as I

264

00:10:53,570 --> 00:10:51,960

said before I think it's so engaging I

265

00:10:55,910 --> 00:10:53,580

mean there's a certain percentage of the

266

00:10:58,340 --> 00:10:55,920

population yourself and myself certainly

267

00:11:00,710 --> 00:10:58,350

included and what I find many students

268

00:11:03,140 --> 00:11:00,720

for whom this topic is endlessly

269

00:11:04,670 --> 00:11:03,150

fascinating and I note that in a recent

270

00:11:07,220 --> 00:11:04,680

interview you did for the skeptic

271

00:11:08,930 --> 00:11:07,230

magazine here in Australia you quoted as

272

00:11:12,320 --> 00:11:08,940

saying that it's just so interesting

273

00:11:14,600 --> 00:11:12,330

what you do well you never know what's

274

00:11:17,180 --> 00:11:14,610

going to happen next I mean a lot of it

275

00:11:19,640 --> 00:11:17,190

is is normal academic stuff like looking

276

00:11:21,710 --> 00:11:19,650

at exam papers and and meeting with

277

00:11:23,390 --> 00:11:21,720

students but you get phone calls from

278

00:11:24,710 --> 00:11:23,400

people who having strange things

279

00:11:26,210 --> 00:11:24,720

happening in their house you have to try

280

00:11:29,840 --> 00:11:26,220

to discuss with them what might be going

281

00:11:31,640 --> 00:11:29,850

on and you get a lot of approaches from

282

00:11:33,260 --> 00:11:31,650

the media you know because it's

283

00:11:34,880 --> 00:11:33,270

interesting from that point of view so

284

00:11:38,600 --> 00:11:34,890

those communication with members of the

285

00:11:40,760 --> 00:11:38,610

public directly and with the through the

286

00:11:43,490 --> 00:11:40,770

media to the public which I think so an

287

00:11:44,900 --> 00:11:43,500

important part of my job now can you

288

00:11:47,330 --> 00:11:44,910

tell me a little bit about how your

289

00:11:48,830 --> 00:11:47,340

online course works and what it's like

290

00:11:50,600 --> 00:11:48,840

to have students from all over the world

291

00:11:54,080 --> 00:11:50,610

including I must say some here in

292

00:11:56,750 --> 00:11:54,090

Australia yeah and this was my big

293

00:11:59,180 --> 00:11:56,760

project last year I sort of developed

294

00:12:00,800 --> 00:11:59,190

this course from from out of nothing and

295

00:12:03,920 --> 00:12:00,810

never having done anything like this

296

00:12:05,390 --> 00:12:03,930

before and it's it's a it's an open

297

00:12:07,850 --> 00:12:05,400

studies course which means that you

298

00:12:11,180 --> 00:12:07,860

don't need to have any qualifications to

299

00:12:13,070 --> 00:12:11,190

join you also do not receive any

300

00:12:15,140 --> 00:12:13,080

qualification from taking part in the

301

00:12:18,890 --> 00:12:15,150

course so it's for personal education or

302

00:12:20,930 --> 00:12:18,900

personal interest only and you come on

303

00:12:23,660 --> 00:12:20,940

so that our website and you can register

304

00:12:26,480 --> 00:12:23,670

for the course online and then the

305

00:12:28,190 --> 00:12:26,490

course materials of course runs over 11

306

00:12:30,170 --> 00:12:28,200

weeks the course materials are all

307

00:12:32,660 --> 00:12:30,180

presented on what we call virtual

308

00:12:34,250 --> 00:12:32,670

learning environment that's and the

309

00:12:37,010 --> 00:12:34,260

platform that they had Maria university

310

00:12:39,200 --> 00:12:37,020

uses and the lovely thing about it is

311

00:12:40,490 --> 00:12:39,210

that a that you can have people from all

312

00:12:42,380 --> 00:12:40,500

around the world which i think is

313

00:12:44,300 --> 00:12:42,390

fantastic although I have to admit I

314

00:12:46,610 --> 00:12:44,310

it's biased towards English language and

315

00:12:48,650 --> 00:12:46,620

it you've got to be able to speak

316

00:12:49,220 --> 00:12:48,660

English you've gotta be semi computer

317

00:12:51,230 --> 00:12:49,230

literate

318

00:12:54,290 --> 00:12:51,240

in order to be able to download files

319

00:12:57,470 --> 00:12:54,300

and so on and but it also allows you to

320

00:13:00,320 --> 00:12:57,480

abandon the usual lecture format which I

321

00:13:02,690 --> 00:13:00,330

think can be quite passive and boring

322

00:13:04,340 --> 00:13:02,700

for students even the most interesting

323

00:13:07,610 --> 00:13:04,350

lecturer it's sort of one-way

324

00:13:08,630 --> 00:13:07,620

interaction and with an online course

325

00:13:10,940 --> 00:13:08,640

you can have all sorts of different

326

00:13:13,310 --> 00:13:10,950

materials so I've got interviews with

327

00:13:15,740 --> 00:13:13,320

experts I've got self-test two quizzes

328

00:13:19,340 --> 00:13:15,750

I've got downloads of journal articles

329

00:13:20,720 --> 00:13:19,350

I've got book chapters so there are lots

330

00:13:22,790 --> 00:13:20,730

of different kinds of materials that you

331

00:13:24,740 --> 00:13:22,800

can use to help engage the students

332

00:13:26,660 --> 00:13:24,750

probably the best thing the students

333

00:13:29,120 --> 00:13:26,670

like is there discussion groups which

334

00:13:30,620 --> 00:13:29,130

are just basic vlogs and each week

335

00:13:33,770 --> 00:13:30,630

there's a themed discussion group and

336

00:13:35,720 --> 00:13:33,780

students post an essay or a soft starter

337

00:13:37,310 --> 00:13:35,730

discussion and then they all discuss it

338

00:13:39,500 --> 00:13:37,320

amongst themselves so they actually

339

00:13:41,390 --> 00:13:39,510

learn a lot from considering what each

340

00:13:43,460 --> 00:13:41,400

other is saying and perhaps creating

341

00:13:45,860 --> 00:13:43,470

each other if someone says something or

342

00:13:48,470 --> 00:13:45,870

raises a question so it's a wonderful

343

00:13:51,320 --> 00:13:48,480

way of engaging with the subject in with

344

00:13:54,110 --> 00:13:51,330

a lot of variety of learning materials

345

00:13:58,250 --> 00:13:54,120

and I imagine that you also learn a lot

346

00:14:00,110 --> 00:13:58,260

from your students yes I think it's it's

347

00:14:01,640 --> 00:14:00,120

a sort of a reminder of the different

348

00:14:04,060 --> 00:14:01,650

perspectives that people are bringing to

349

00:14:06,290 --> 00:14:04,070

the subject and the students themselves

350

00:14:08,270 --> 00:14:06,300

some of them I mean actually my first

351
00:14:10,070 --> 00:14:08,280
course ran just before Christmas and I

352
00:14:12,290 --> 00:14:10,080
had a little question here at the end of

353
00:14:13,790 --> 00:14:12,300
it and I was asking them what their

354
00:14:15,320 --> 00:14:13,800
beliefs were about the paranormal

355
00:14:17,840 --> 00:14:15,330
because I really didn't know who my

356
00:14:20,120 --> 00:14:17,850
customers were and it was interesting it

357
00:14:22,090 --> 00:14:20,130
was a it was an even balance of skeptics

358
00:14:25,460 --> 00:14:22,100
what you call skeptics and believers

359
00:14:27,470 --> 00:14:25,470
some people were quite strong proponents

360
00:14:30,170 --> 00:14:27,480
but they were still willing to listen to

361
00:14:32,060 --> 00:14:30,180
alternative viewpoints and there were

362
00:14:34,640 --> 00:14:32,070
other people who were strong counter

363
00:14:35,900 --> 00:14:34,650

advocates who thankfully so far have

364

00:14:37,460 --> 00:14:35,910

been respectful of other people's

365

00:14:40,490 --> 00:14:37,470

opinions even if they don't agree with

366

00:14:42,590 --> 00:14:40,500

them so it's it's it's very nice to see

367

00:14:43,850 --> 00:14:42,600

that interaction and to learn you know

368

00:14:47,150 --> 00:14:43,860

what assumptions other people are

369

00:14:49,130 --> 00:14:47,160

bringing to the subject I'm I imagine it

370

00:14:52,010 --> 00:14:49,140

is and I imagine there as you say there

371

00:14:53,900 --> 00:14:52,020

are people coming on to somehow confirm

372

00:14:57,680 --> 00:14:53,910

what they already think they know in

373

00:15:00,770 --> 00:14:57,690

some respects and do you have you

374

00:15:02,150 --> 00:15:00,780

encountered the case where you'd get a

375

00:15:04,759 --> 00:15:02,160

very strong beetle

376

00:15:07,040 --> 00:15:04,769

eva coming along and being somewhat

377

00:15:10,069 --> 00:15:07,050

crestfallen or disbelieving or

378

00:15:13,189 --> 00:15:10,079

dismissive of the results if they're

379

00:15:15,079 --> 00:15:13,199

negative well I had one student who was

380

00:15:17,569 --> 00:15:15,089

disappointed because he thought the

381

00:15:20,119 --> 00:15:17,579

course would teach him how to test is

382

00:15:23,749 --> 00:15:20,129

like a claimant's so he wanted to be

383

00:15:25,790 --> 00:15:23,759

given a sort of practical guide as it

384

00:15:28,699 --> 00:15:25,800

were to how you taste people who claim

385

00:15:30,290 --> 00:15:28,709

certain psychic abilities and the course

386

00:15:32,210 --> 00:15:30,300

is actually much broader than that so

387

00:15:34,429 --> 00:15:32,220

that's covered in one week but not in

388

00:15:38,319 --> 00:15:34,439

any comprehensive way and I've had a

389

00:15:40,670 --> 00:15:38,329

coupla students who said they were a bit

390

00:15:42,410 --> 00:15:40,680

well they were a bit disappointed

391

00:15:44,900 --> 00:15:42,420

because the literature was less

392

00:15:46,579 --> 00:15:44,910

clear-cut than they thought so they

393

00:15:49,759 --> 00:15:46,589

thought that there was strong evidence

394

00:15:51,110 --> 00:15:49,769

for psy and actually the material that

395

00:15:53,269 --> 00:15:51,120

I'm showing them sure was that there's

396

00:15:55,790 --> 00:15:53,279

debate about that and I wouldn't say

397

00:15:58,249 --> 00:15:55,800

they were disappointed but they're just

398

00:15:59,960 --> 00:15:58,259

sort of brought up shorts and they sort

399

00:16:02,689 --> 00:15:59,970

of realized they didn't have the full

400

00:16:04,249 --> 00:16:02,699

picture before yes that that wouldn't

401
00:16:08,150 --> 00:16:04,259
surprise me at all do you find that

402
00:16:10,730 --> 00:16:08,160
there is a great misconception about the

403
00:16:12,679 --> 00:16:10,740
whole area and well if you get

404
00:16:15,800 --> 00:16:12,689
misconceptions on both sides of course

405
00:16:17,509 --> 00:16:15,810
because sometimes skeptics who who

406
00:16:19,309 --> 00:16:17,519
haven't familiarize themselves with

407
00:16:21,259 --> 00:16:19,319
literature you know will make sweeping

408
00:16:23,629 --> 00:16:21,269
statements such as you know all the

409
00:16:26,269 --> 00:16:23,639
methodologies poor or there's no

410
00:16:28,670 --> 00:16:26,279
positive results anywhere and in fact

411
00:16:30,110 --> 00:16:28,680
there are some quite well done studies

412
00:16:32,360 --> 00:16:30,120
that have come up with positive results

413
00:16:34,670 --> 00:16:32,370

and then the question is then well how

414

00:16:36,379 --> 00:16:34,680

do you interpret those results so

415

00:16:38,509 --> 00:16:36,389

there's their strong statements made on

416

00:16:41,090 --> 00:16:38,519

either side that some believers have

417

00:16:42,860 --> 00:16:41,100

perhaps it been misled by some some

418

00:16:46,400 --> 00:16:42,870

parapsychologists who've overstated the

419

00:16:49,249 --> 00:16:46,410

case and I just feel that for my point

420

00:16:50,480 --> 00:16:49,259

of view it's certainly not an easy

421

00:16:52,429 --> 00:16:50,490

answer to the question what's the

422

00:16:54,889 --> 00:16:52,439

evidence for sigh I don't think the

423

00:16:57,470 --> 00:16:54,899

evidence is there to provide the answer

424

00:16:59,480 --> 00:16:57,480

yet right that that's an interesting

425

00:17:02,449 --> 00:16:59,490

that's an interesting way to put it now

426

00:17:04,279 --> 00:17:02,459

is it from your point of view just

427

00:17:07,100 --> 00:17:04,289

getting back to the online aspects of it

428

00:17:09,470 --> 00:17:07,110

is it a really successful way to teach

429

00:17:11,779 --> 00:17:09,480

in your opinion or I mean I guess it's

430

00:17:14,750 --> 00:17:11,789

relatively new this whole approach but

431

00:17:15,710 --> 00:17:14,760

we are getting on in the in this decade

432

00:17:17,929 --> 00:17:15,720

so it's it's no

433

00:17:19,760 --> 00:17:17,939

thing to novel do you find it being

434

00:17:22,909 --> 00:17:19,770

quite successful for you at the moment I

435

00:17:25,490 --> 00:17:22,919

said yes it is the first course sold out

436

00:17:28,720 --> 00:17:25,500

overnight so it was fully booked within

437

00:17:30,980 --> 00:17:28,730

24 hours of it being advertised the

438

00:17:34,190 --> 00:17:30,990

university I think it's the way for the

439

00:17:35,779 --> 00:17:34,200

future and certainly Edinburgh were not

440

00:17:38,240 --> 00:17:35,789

quite up to speed with online learning

441

00:17:39,740 --> 00:17:38,250

yet there's I still get the feeling and

442

00:17:42,740 --> 00:17:39,750

when I was developing the course I felt

443

00:17:46,310 --> 00:17:42,750

like a pioneer which shouldn't really be

444

00:17:50,510 --> 00:17:46,320

in any or 2009 and you know this should

445

00:17:53,000 --> 00:17:50,520

be normal and it's it over a lot of

446

00:17:54,740 --> 00:17:53,010

people had to learn how to make this

447

00:17:57,890 --> 00:17:54,750

course happen you know it wasn't

448

00:17:59,810 --> 00:17:57,900

straight forward but to me it's the

449

00:18:02,840 --> 00:17:59,820

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

450

00:18:05,210 --> 00:18:02,850

resources you know you can learn and

451

00:18:08,360 --> 00:18:05,220

have access to material without the

452

00:18:10,880 --> 00:18:08,370

travel without using the lecture

453

00:18:13,070 --> 00:18:10,890

theatres and so on and you can do it at

454

00:18:15,950 --> 00:18:13,080

your own time a time when when suits you

455

00:18:18,710 --> 00:18:15,960

so to me is the way that future

456

00:18:20,930 --> 00:18:18,720

education should happen now my course is

457

00:18:24,380 --> 00:18:20,940

non-accredited which means that I don't

458

00:18:26,360 --> 00:18:24,390

mark any assessments and if it was to be

459

00:18:28,220 --> 00:18:26,370

an accredited course then there would be

460

00:18:30,649 --> 00:18:28,230

more engagement with the students they

461

00:18:32,360 --> 00:18:30,659

would have to submit essays for example

462

00:18:33,649 --> 00:18:32,370

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

463

00:18:35,840 --> 00:18:33,659

still be some of the traditional

464

00:18:37,490 --> 00:18:35,850

assessment would have to take place but

465

00:18:39,200 --> 00:18:37,500

you'll be much more flexible because

466

00:18:40,700 --> 00:18:39,210

that could be sent in online rather than

467

00:18:43,909 --> 00:18:40,710

the student pretty and your pigeon hole

468

00:18:46,370 --> 00:18:43,919

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

469

00:18:49,539 --> 00:18:46,380

totally agree in fact even right now

470

00:18:52,430 --> 00:18:49,549

here we are chatting with each other and

471

00:18:54,799 --> 00:18:52,440

its face to face because we're both on

472

00:18:57,440 --> 00:18:54,809

our each other's video screens as it

473

00:19:00,049 --> 00:18:57,450

were yeah it's wonderful isn't it that's

474

00:19:03,649 --> 00:19:00,059

quite right what my internet connections

475

00:19:07,039 --> 00:19:03,659

continues to be reliable well so far so

476

00:19:08,390 --> 00:19:07,049

good now finally Caroline this has been

477

00:19:10,010 --> 00:19:08,400

wonderful to chat with you it is a

478

00:19:13,700 --> 00:19:10,020

fascinating topic I mean it's one of the

479

00:19:16,190 --> 00:19:13,710

reasons I do what I do because I I can't

480

00:19:17,720 --> 00:19:16,200

see how I could ever be bored with this

481

00:19:20,180 --> 00:19:17,730

topic there's always something

482

00:19:23,470 --> 00:19:20,190

interesting on you and even if it

483

00:19:25,490 --> 00:19:23,480

largely does boil down to more or less a

484

00:19:27,169 --> 00:19:25,500

psychology because you are looking at

485

00:19:29,230 --> 00:19:27,179

the way people believe things and why

486

00:19:32,790 --> 00:19:29,240

they believe them and why they've been

487

00:19:35,620 --> 00:19:32,800

led to look at things a certain way so I

488

00:19:37,990 --> 00:19:35,630

I just love the fact that there are

489

00:19:40,990 --> 00:19:38,000

people like you out there exploring this

490

00:19:45,460 --> 00:19:41,000

and online what could be better if my

491

00:19:47,260 --> 00:19:45,470

listeners are now so keen to to join

492

00:19:49,060 --> 00:19:47,270

your course and join the queue for your

493

00:19:51,790 --> 00:19:49,070

course I imagine how can they get some

494

00:19:54,340 --> 00:19:51,800

more information and well if they go to

495

00:19:56,890 --> 00:19:54,350

the curler parapsychology unit website

496

00:19:59,110 --> 00:19:56,900

then they'll find some pages about the

497

00:20:02,170 --> 00:19:59,120

course on there and a link to the

498

00:20:03,880 --> 00:20:02,180

registration page so just look look for

499

00:20:06,400 --> 00:20:03,890

us on Google you should find us quite

500

00:20:09,010 --> 00:20:06,410

easily and I think I think you're quite

501
00:20:11,170 --> 00:20:09,020
right it's it's whether or not sigh

502
00:20:13,420 --> 00:20:11,180
exists the fact is that lots of people

503
00:20:14,770 --> 00:20:13,430
believe in the paranormal and lots of

504
00:20:17,530 --> 00:20:14,780
people have experiences that they think

505
00:20:19,480 --> 00:20:17,540
a paranormal yeah therefore it's only

506
00:20:21,130 --> 00:20:19,490
it's a kind of a no-brainer that people

507
00:20:22,900 --> 00:20:21,140
should be investigating these questions

508
00:20:25,390 --> 00:20:22,910
both from a psychology point of view and

509
00:20:28,210 --> 00:20:25,400
at least give some consideration to the

510
00:20:29,770 --> 00:20:28,220
paranormal issue as well well if it

511
00:20:32,290 --> 00:20:29,780
wasn't for this whole topic I'd have to

512
00:20:33,820 --> 00:20:32,300
go back and do web pages for one of our

513
00:20:36,870 --> 00:20:33,830

large banks which I used to do and I'd

514

00:20:39,580 --> 00:20:36,880

rather do this believe me absolutely

515

00:20:41,380 --> 00:20:39,590

well Caroline thank you very much for

516

00:20:44,490 --> 00:20:41,390

talking to the skeptic zone all the way

517

00:20:58,830 --> 00:20:44,500

over there in Scotland it's my pleasure

518

00:21:08,040 --> 00:21:01,620

let's all take this with a grain of salt

519

00:21:13,570 --> 00:21:10,690

hello this is a Rancic of taking life

520

00:21:15,760 --> 00:21:13,580

with a grain of salt as our listeners

521

00:21:17,140 --> 00:21:15,770

probably all know the state of Victoria

522

00:21:19,690 --> 00:21:17,150

in southern Australia was gripped by

523

00:21:21,760 --> 00:21:19,700

bush fires earlier this month the bush

524

00:21:23,460 --> 00:21:21,770

fires were unprecedented in the severity

525

00:21:27,070 --> 00:21:23,470

and the amount of damage they caused

526

00:21:28,990 --> 00:21:27,080

more than 200 people died at least 1,800

527

00:21:31,180 --> 00:21:29,000

homes have been lost and two towns were

528

00:21:34,420 --> 00:21:31,190

completely razed in what was Australia's

529

00:21:36,280 --> 00:21:34,430

worst peacetime disaster a disaster of

530

00:21:38,410 --> 00:21:36,290

this magnitude is sure to raise some

531

00:21:40,390 --> 00:21:38,420

questions of culpability in the blame

532

00:21:43,150 --> 00:21:40,400

game started while some fires were still

533

00:21:45,610 --> 00:21:43,160

raging some of those blamed were either

534

00:21:47,170 --> 00:21:45,620

obviously at fault such as the arsonist

535

00:21:49,750 --> 00:21:47,180

who started at least some of the files

536

00:21:51,520 --> 00:21:49,760

or obviously not at fault such as the

537

00:21:53,770 --> 00:21:51,530

Victorian Parliament which was blamed by

538

00:21:55,690 --> 00:21:53,780

some religious whack job of causing the

539

00:21:58,480 --> 00:21:55,700

fires by decriminalizing abortion in

540

00:22:01,420 --> 00:21:58,490

Victoria yet for others the case is not

541

00:22:03,160 --> 00:22:01,430

so clear among those whose potential or

542

00:22:05,260 --> 00:22:03,170

responsibility was mentioned and should

543

00:22:07,840 --> 00:22:05,270

be considered I will noted in particular

544

00:22:10,960 --> 00:22:07,850

the environmental movement the residents

545

00:22:12,700 --> 00:22:10,970

themselves and global warming it could

546

00:22:15,220 --> 00:22:12,710

take experts many months to come to some

547

00:22:17,200 --> 00:22:15,230

conclusions as to the causes even then

548

00:22:19,420 --> 00:22:17,210

the answers are unlikely to be clear-cut

549

00:22:21,160 --> 00:22:19,430

or show one of those mentioned as

550

00:22:23,410 --> 00:22:21,170

responsible to the exclusion of the

551
00:22:25,840 --> 00:22:23,420
others so any attempt by me to pass

552
00:22:27,430 --> 00:22:25,850
judgement would be ill conceived are

553
00:22:29,350 --> 00:22:27,440
therefore do not intend to come to any

554
00:22:32,950 --> 00:22:29,360
conclusions just to raise some questions

555
00:22:34,780 --> 00:22:32,960
about some of the claims made the case

556
00:22:36,490 --> 00:22:34,790
for the culpability of the environmental

557
00:22:38,200 --> 00:22:36,500
movement is based around to fire

558
00:22:40,810 --> 00:22:38,210
management activities that can be

559
00:22:44,470 --> 00:22:40,820
undertaken in bush areas clearing and

560
00:22:46,420 --> 00:22:44,480
fuel reduction burning clearing is the

561
00:22:48,010 --> 00:22:46,430
removal of fuel materials such as trees

562
00:22:50,680 --> 00:22:48,020
and shrubs from areas surrounding

563
00:22:52,630 --> 00:22:50,690

properties to be protected the scale of

564

00:22:55,360 --> 00:22:52,640

clearing can range from removing trees

565

00:22:57,010 --> 00:22:55,370

to overhanging parts of a house through

566

00:22:59,500 --> 00:22:57,020

the creation of a clear area with a

567

00:23:01,060 --> 00:22:59,510

radius of two tree heights to clear

568

00:23:04,300 --> 00:23:01,070

failing acres of land around the

569

00:23:05,800 --> 00:23:04,310

property fuel reduction burning is the

570

00:23:08,470 --> 00:23:05,810

process of using favourable conditions

571

00:23:10,150 --> 00:23:08,480

such as cold days with no wind to burn

572

00:23:13,120 --> 00:23:10,160

the leaves branches and bark that

573

00:23:14,740 --> 00:23:13,130

accumulate under trees because trees are

574

00:23:17,260 --> 00:23:14,750

slower to catch fire than this dry

575

00:23:18,100 --> 00:23:17,270

material files are less likely to start

576

00:23:20,650 --> 00:23:18,110

in fuel reduce

577

00:23:22,299 --> 00:23:20,660

areas and files that do not have the

578

00:23:26,049 --> 00:23:22,309

benefit of this fuel are likely to be

579

00:23:27,520 --> 00:23:26,059

easier to control the claim that puts

580

00:23:28,780 --> 00:23:27,530

the environmental movement in the hot

581

00:23:30,640 --> 00:23:28,790

seat is that their political

582

00:23:32,860 --> 00:23:30,650

representatives the Australian Greens

583

00:23:34,780 --> 00:23:32,870

have used their political power to

584

00:23:36,460 --> 00:23:34,790

prevent residents in thick bush areas

585

00:23:38,560 --> 00:23:36,470

from clearing the land around their

586

00:23:41,070 --> 00:23:38,570

properties and to stop the authorities

587

00:23:43,660 --> 00:23:41,080

from conducting fuel reduction burning

588

00:23:45,610 --> 00:23:43,670

opinion pieces letters and calls to

589

00:23:47,620 --> 00:23:45,620

radio talk shows stop blaming the Greens

590

00:23:49,419 --> 00:23:47,630

appeared in Australian media as early as

591

00:23:51,970 --> 00:23:49,429

the Monday following Black Saturday and

592

00:23:54,090 --> 00:23:51,980

continued as the death toll rose and the

593

00:23:57,070 --> 00:23:54,100

enormity of the situation became clear

594

00:23:58,870 --> 00:23:57,080

one particularly vocal critic was a

595

00:24:01,210 --> 00:23:58,880

resident who was fined thousands of

596

00:24:02,890 --> 00:24:01,220

dollars by the local council after he

597

00:24:04,570 --> 00:24:02,900

ignored their bylaws and cleared the

598

00:24:07,990 --> 00:24:04,580

land around his property which then

599

00:24:10,360 --> 00:24:08,000

survived the fires on the face of it the

600

00:24:12,730 --> 00:24:10,370

criticism seems to be justified but a

601
00:24:14,980 --> 00:24:12,740
few questions come up the two most

602
00:24:16,750 --> 00:24:14,990
important ones in my opinion or whether

603
00:24:19,060 --> 00:24:16,760
the claims are actually true beyond a

604
00:24:20,560 --> 00:24:19,070
few anecdotes and weather clearing and

605
00:24:23,530 --> 00:24:20,570
fuel reduction burning would have made a

606
00:24:25,600 --> 00:24:23,540
significant difference to establish that

607
00:24:27,430 --> 00:24:25,610
the claims are true a pattern of

608
00:24:30,070 --> 00:24:27,440
refusing permission to perform clearing

609
00:24:31,690 --> 00:24:30,080
needs to be shown such a pattern would

610
00:24:33,640 --> 00:24:31,700
need to also be different from the past

611
00:24:35,710 --> 00:24:33,650
in which the greens were not as

612
00:24:38,409 --> 00:24:35,720
politically powerful as they are now in

613
00:24:40,630 --> 00:24:38,419

particular the laws and regulations will

614

00:24:42,340 --> 00:24:40,640

need to have either changed or more

615

00:24:44,500 --> 00:24:42,350

stringently enforced in recent times

616

00:24:47,230 --> 00:24:44,510

then when the towns affected by the bush

617

00:24:49,659 --> 00:24:47,240

fires were founded that last point is

618

00:24:52,299 --> 00:24:49,669

crucial we know the residents of those

619

00:24:54,400 --> 00:24:52,309

towns chose to live in bush areas and by

620

00:24:56,440 --> 00:24:54,410

that they implicitly accepted some risk

621

00:24:58,240 --> 00:24:56,450

the question of whether the risk was

622

00:25:00,130 --> 00:24:58,250

increased after they were already in

623

00:25:02,710 --> 00:25:00,140

possession of their land is a key

624

00:25:04,419 --> 00:25:02,720

question I have not been able to

625

00:25:06,789 --> 00:25:04,429

determine whether there has been such a

626

00:25:08,710 --> 00:25:06,799

pattern there is a lot of information

627

00:25:10,390 --> 00:25:08,720

available about this question but I

628

00:25:13,450 --> 00:25:10,400

could not find any that came from a

629

00:25:15,250 --> 00:25:13,460

neutral source when information

630

00:25:17,320 --> 00:25:15,260

presented matches the interests of the

631

00:25:19,900 --> 00:25:17,330

entity presenting it I tend to be

632

00:25:21,730 --> 00:25:19,910

cautious about accepting it it is also

633

00:25:23,830 --> 00:25:21,740

obviously possible or even likely that

634

00:25:26,799 --> 00:25:23,840

the situation varies between different

635

00:25:29,890 --> 00:25:26,809

localities whatever the case may be I

636

00:25:32,060 --> 00:25:29,900

will leave this question open to answer

637

00:25:33,350 --> 00:25:32,070

the second question some background is

638

00:25:36,040 --> 00:25:33,360

hired by the fires on this specific

639

00:25:38,390 --> 00:25:36,050

occasion and what was unique about them

640

00:25:40,790 --> 00:25:38,400

bush fires are common in the southeast

641

00:25:42,890 --> 00:25:40,800

of Australia indeed many Australian

642

00:25:45,860 --> 00:25:42,900

species of trees rely on fire to

643

00:25:47,630 --> 00:25:45,870

rejuvenate and reproduce droughts are

644

00:25:50,240 --> 00:25:47,640

also fairly common in the southeast of

645

00:25:51,740 --> 00:25:50,250

Australia the one lasting 10 years such

646

00:25:54,610 --> 00:25:51,750

as the one Victoria is in the midst of

647

00:25:57,410 --> 00:25:54,620

has not been experienced since the 1930s

648

00:25:59,090 --> 00:25:57,420

most importantly Victoria had been

649

00:26:01,760 --> 00:25:59,100

experiencing a heat wave that would make

650

00:26:04,040 --> 00:26:01,770

Hades squirm maximum temperatures

651
00:26:07,310 --> 00:26:04,050
regularly exceeded 40 degrees Celsius

652
00:26:08,870 --> 00:26:07,320
and were only below 30 45 days in the

653
00:26:10,610 --> 00:26:08,880
three weeks that culminates with the

654
00:26:13,430 --> 00:26:10,620
deadly fires on the seventh of February

655
00:26:16,760 --> 00:26:13,440
on that day the temperatures sold to

656
00:26:18,800 --> 00:26:16,770
forty six point four degrees in eucalypt

657
00:26:20,960 --> 00:26:18,810
forests which are usually enveloped in a

658
00:26:22,760 --> 00:26:20,970
blue haze of etheric oils such

659
00:26:24,830 --> 00:26:22,770
temperatures mean that the concentration

660
00:26:28,010 --> 00:26:24,840
of oils is higher and the air is almost

661
00:26:30,410 --> 00:26:28,020
combustible add to that mix wind speeds

662
00:26:32,180 --> 00:26:30,420
in excess of 30 kilometers per hour with

663
00:26:34,460 --> 00:26:32,190

gusts of up to 50 kilometers per hour

664

00:26:36,470 --> 00:26:34,470

and it is not entirely certain that's

665

00:26:37,790 --> 00:26:36,480

under such circumstances if your

666

00:26:40,580 --> 00:26:37,800

reduction would have made much of a

667

00:26:42,170 --> 00:26:40,590

difference some of the stories told by

668

00:26:44,570 --> 00:26:42,180

people who were there including

669

00:26:46,760 --> 00:26:44,580

firefighters described a wall of fire

670

00:26:48,560 --> 00:26:46,770

much higher than the trees and heat that

671

00:26:51,650 --> 00:26:48,570

surpassed anything they had experienced

672

00:26:53,720 --> 00:26:51,660

before others described the fire rolling

673

00:26:56,060 --> 00:26:53,730

down hill and through cleared areas

674

00:26:58,310 --> 00:26:56,070

spanning hundreds of metres or moving at

675

00:26:59,570 --> 00:26:58,320

speeds of many kilometers per hour both

676
00:27:01,670 --> 00:26:59,580
of which cannot be explained by

677
00:27:03,170 --> 00:27:01,680
excessive fuel and both indicate that

678
00:27:05,090 --> 00:27:03,180
properties that had planned cleared

679
00:27:07,250 --> 00:27:05,100
around them would not necessarily have

680
00:27:10,160 --> 00:27:07,260
been spared which is exactly what had

681
00:27:12,170 --> 00:27:10,170
occurred in many places firefighters

682
00:27:13,670 --> 00:27:12,180
repeatedly described the fires as being

683
00:27:17,630 --> 00:27:13,680
different to anything they had seen

684
00:27:19,670 --> 00:27:17,640
before and as unstoppable and finally on

685
00:27:22,700 --> 00:27:19,680
this point to the person who was fine

686
00:27:24,710 --> 00:27:22,710
for clearing land around his house Liam

687
00:27:26,780 --> 00:27:24,720
Sheehan had cleared to 100 meters around

688
00:27:29,420 --> 00:27:26,790

his property as opposed to the six

689

00:27:31,850 --> 00:27:29,430

meters allowed by the law or the 1.5

690

00:27:34,280 --> 00:27:31,860

tree heights recommended by CSIRO and

691

00:27:36,740 --> 00:27:34,290

was subsequently fined fifty thousand

692

00:27:38,780 --> 00:27:36,750

dollars he attributes the survival of

693

00:27:40,820 --> 00:27:38,790

his property to the clearing but other

694

00:27:43,040 --> 00:27:40,830

properties in other areas that had

695

00:27:44,940 --> 00:27:43,050

larger clear areas around them did not

696

00:27:46,769 --> 00:27:44,950

survive

697

00:27:48,600 --> 00:27:46,779

be fair to assume that the fact that mr.

698

00:27:50,580 --> 00:27:48,610

Sheehan himself and his son and daughter

699

00:27:52,529 --> 00:27:50,590

are all members of the country fire

700

00:27:54,539 --> 00:27:52,539

authority and our experienced

701
00:27:57,060 --> 00:27:54,549
firefighters might have had something to

702
00:27:59,299 --> 00:27:57,070
do with it surely there would be better

703
00:28:02,100 --> 00:27:59,309
equipped to protect their home than most

704
00:28:04,230 --> 00:28:02,110
this case raises the same question I

705
00:28:07,139 --> 00:28:04,240
mentioned earlier of what the rules were

706
00:28:08,850 --> 00:28:07,149
when mr. Sheehan bought his land if the

707
00:28:11,250 --> 00:28:08,860
law is prohibited clearing at the time

708
00:28:13,529 --> 00:28:11,260
then it is not at all clear that he's in

709
00:28:16,350 --> 00:28:13,539
the right even if the outcome for him

710
00:28:18,060 --> 00:28:16,360
was the saving of his property I've been

711
00:28:20,279 --> 00:28:18,070
unable to establish whether that is the

712
00:28:22,889 --> 00:28:20,289
case so that question too will remain

713
00:28:25,080 --> 00:28:22,899

open it is worth noting though that mr.

714

00:28:27,680 --> 00:28:25,090

Sheehan is on record saying that he's

715

00:28:29,970 --> 00:28:27,690

going to try to get his fine reversed

716

00:28:31,769 --> 00:28:29,980

the descriptions of the weather in the

717

00:28:34,049 --> 00:28:31,779

weeks leading to the fires and the long

718

00:28:37,019 --> 00:28:34,059

drought naturally lead to global warming

719

00:28:40,019 --> 00:28:37,029

as a probable cause but here to a few

720

00:28:42,330 --> 00:28:40,029

questions are raised for one global

721

00:28:43,919 --> 00:28:42,340

warming is a statistical phenomenon it

722

00:28:46,279 --> 00:28:43,929

does not mean that temperatures get

723

00:28:49,019 --> 00:28:46,289

higher every year or in every location

724

00:28:50,430 --> 00:28:49,029

at the same time that Victoria has been

725

00:28:51,990 --> 00:28:50,440

suffering from a heat wave in

726

00:28:54,299 --> 00:28:52,000

temperatures 20 degrees higher than

727

00:28:56,700 --> 00:28:54,309

average Sydney in eastern New South

728

00:28:58,799 --> 00:28:56,710

Wales was experiencing only a slight

729

00:29:00,810 --> 00:28:58,809

increasing temperatures but parts of

730

00:29:02,279 --> 00:29:00,820

western New South Wales were having a

731

00:29:05,190 --> 00:29:02,289

similar experience to that of the

732

00:29:07,289 --> 00:29:05,200

Victorians then in the week after the

733

00:29:09,570 --> 00:29:07,299

fires temperatures throughout much of

734

00:29:12,629 --> 00:29:09,580

the three areas just mentioned dropped

735

00:29:14,879 --> 00:29:12,639

to several degrees below average to our

736

00:29:17,460 --> 00:29:14,889

international listeners Victoria is

737

00:29:19,560 --> 00:29:17,470

south of New South Wales the fires were

738

00:29:21,960 --> 00:29:19,570

about 800 kilometres south of Sydney

739

00:29:23,820 --> 00:29:21,970

since Australia is in the southern

740

00:29:26,580 --> 00:29:23,830

hemisphere you would expect that moving

741

00:29:28,860 --> 00:29:26,590

800 kilometres south ward would make the

742

00:29:31,039 --> 00:29:28,870

weather colder not warmer but climate

743

00:29:33,840 --> 00:29:31,049

and weather are not as simple as that

744

00:29:36,180 --> 00:29:33,850

the drought which may have contributed

745

00:29:38,549 --> 00:29:36,190

to the fires has also been linked to

746

00:29:40,500 --> 00:29:38,559

global warming but while clearly a leak

747

00:29:42,360 --> 00:29:40,510

cannot be ruled out the level of

748

00:29:44,519 --> 00:29:42,370

certainty of such a claim cannot be

749

00:29:46,649 --> 00:29:44,529

considered very high in an arid

750

00:29:48,690 --> 00:29:46,659

continent such as Australia in which

751
00:29:50,460 --> 00:29:48,700
fertile areas are around the corner from

752
00:29:53,970 --> 00:29:50,470
desert and which has suffered long

753
00:29:55,710 --> 00:29:53,980
droughts in the past so both the drought

754
00:29:58,230 --> 00:29:55,720
and the heat wave may be linked to

755
00:29:58,560 --> 00:29:58,240
global warming saw might even say they

756
00:30:00,720 --> 00:29:58,570
are like

757
00:30:02,279 --> 00:30:00,730
to be linked but a long term pattern

758
00:30:04,169 --> 00:30:02,289
would need to be established before

759
00:30:07,620 --> 00:30:04,179
specific events can be attributed to

760
00:30:09,779 --> 00:30:07,630
global warming the last party to have

761
00:30:12,600 --> 00:30:09,789
been blamed though not by many are the

762
00:30:14,269 --> 00:30:12,610
residents themselves the claims against

763
00:30:17,070 --> 00:30:14,279

the residents were mostly of two types

764

00:30:18,629 --> 00:30:17,080

that they resided in a high-risk area in

765

00:30:20,639 --> 00:30:18,639

ways which increase the risk and that

766

00:30:23,490 --> 00:30:20,649

they failed to protect themselves in

767

00:30:25,169 --> 00:30:23,500

their properties the first claim centers

768

00:30:27,539 --> 00:30:25,179

around the basic risk of living in a

769

00:30:29,450 --> 00:30:27,549

bush fire prone area and the location of

770

00:30:32,100 --> 00:30:29,460

some of the town's at tops of ridges

771

00:30:33,810 --> 00:30:32,110

when there's a fire close by the last

772

00:30:36,029 --> 00:30:33,820

place you want to be is uphill from it

773

00:30:37,379 --> 00:30:36,039

if you're on a ridge you might have

774

00:30:39,869 --> 00:30:37,389

fires coming up from two different

775

00:30:42,480 --> 00:30:39,879

directions and your only Escape is along

776

00:30:44,669 --> 00:30:42,490

the ridge if the escape route is also

777

00:30:48,210 --> 00:30:44,679

blocked by fire the situation can only

778

00:30:50,039 --> 00:30:48,220

be described as extremely serious the

779

00:30:51,690 --> 00:30:50,049

problem for residents in this case is

780

00:30:53,639 --> 00:30:51,700

that they would have had to be aware of

781

00:30:55,440 --> 00:30:53,649

this risk and might reasonably have had

782

00:30:57,180 --> 00:30:55,450

an expectation that planning authorities

783

00:30:59,220 --> 00:30:57,190

would have prohibited the establishment

784

00:31:02,129 --> 00:30:59,230

of towns in places that could so easily

785

00:31:04,049 --> 00:31:02,139

become death traps many of the residents

786

00:31:06,299 --> 00:31:04,059

in affected areas would not experience

787

00:31:08,070 --> 00:31:06,309

bush people but other people who moved

788

00:31:10,889 --> 00:31:08,080

out of cities in search of more or

789

00:31:12,629 --> 00:31:10,899

lifestyles they could not be expected to

790

00:31:15,899 --> 00:31:12,639

be experts on the risks of living in the

791

00:31:17,249 --> 00:31:15,909

bush the second claim that the residents

792

00:31:19,680 --> 00:31:17,259

failed to protect themselves and their

793

00:31:21,330 --> 00:31:19,690

properties is based on the fact that few

794

00:31:23,310 --> 00:31:21,340

people stay to protect their properties

795

00:31:26,460 --> 00:31:23,320

as is often the aussie tradition in

796

00:31:28,649 --> 00:31:26,470

cases of bushfires well all I have to

797

00:31:30,029 --> 00:31:28,659

say to those who make that criticism is

798

00:31:32,129 --> 00:31:30,039

that they should watch the videos that

799

00:31:34,619 --> 00:31:32,139

some residents took of the huge flames

800

00:31:37,139 --> 00:31:34,629

approaching so quickly and listen to the

801
00:31:39,450 --> 00:31:37,149
words of the firefighters this was not

802
00:31:41,850 --> 00:31:39,460
just any bush fire and if more people

803
00:31:44,999 --> 00:31:41,860
stayed behind the death toll would very

804
00:31:46,889 --> 00:31:45,009
likely have been higher I have tried in

805
00:31:49,649 --> 00:31:46,899
this talk to raise questions and not

806
00:31:51,930 --> 00:31:49,659
jump to conclusions as I mentioned at

807
00:31:54,269 --> 00:31:51,940
the start of the talk i think the true

808
00:31:55,759 --> 00:31:54,279
causes are varied probably include all

809
00:31:58,169 --> 00:31:55,769
elements mentioned to varying degrees

810
00:32:00,029 --> 00:31:58,179
and it will probably take a long time of

811
00:32:02,100 --> 00:32:00,039
expert work to sort out what has

812
00:32:03,930 --> 00:32:02,110
happened and what could be done to

813
00:32:06,720 --> 00:32:03,940

perhaps alleviate some of the risk of a

814

00:32:09,930 --> 00:32:06,730

repeat I would urge listeners to take a

815

00:32:11,639 --> 00:32:09,940

skeptical approach ask questions don't

816

00:32:11,890 --> 00:32:11,649

make up your mind before the evidence is

817

00:32:14,290 --> 00:32:11,900

in

818

00:32:23,980 --> 00:32:14,300

and take the claims made by those with

819

00:32:26,050 --> 00:32:23,990

an agenda with a grain of salt well i'm

820

00:32:27,780 --> 00:32:26,060

here at Macquarie University in fact

821

00:32:30,400 --> 00:32:27,790

we're just going to lunch I'm with Duane

822

00:32:32,740 --> 00:32:30,410

homemaker does that help reduce it by

823

00:32:35,470 --> 00:32:32,750

Bakr hamaca and Tiffany day high too

824

00:32:37,240 --> 00:32:35,480

high Tiffany of course a reporter for

825

00:32:40,000 --> 00:32:37,250

the skeptic zone and we've spent the

826

00:32:41,770 --> 00:32:40,010

morning bending spoons spoons water

827

00:32:43,350 --> 00:32:41,780

divining talking about ghosts here at

828

00:32:46,630 --> 00:32:43,360

the open week at Macquarie University

829

00:32:49,150 --> 00:32:46,640

now Dwayne this is the third day now how

830

00:32:50,980 --> 00:32:49,160

is it going it has gone fantastic I've

831

00:32:52,030 --> 00:32:50,990

been really impressed with the amount of

832

00:32:53,710 --> 00:32:52,040

people that have come in and showed

833

00:32:55,210 --> 00:32:53,720

interest we've had almost a hundred

834

00:32:56,590 --> 00:32:55,220

people actually probably more than our

835

00:32:58,180 --> 00:32:56,600

people because it looks like at about 50

836

00:32:59,770 --> 00:32:58,190

and 20 people sign up in that last hour

837

00:33:02,770 --> 00:32:59,780

yeah we've had over a hundred responses

838

00:33:04,420 --> 00:33:02,780

a lot of a lot of people coming in a lot

839

00:33:05,980 --> 00:33:04,430

of interest been generated and I've been

840

00:33:07,540 --> 00:33:05,990

quite surprised I didn't expect to get

841

00:33:09,910 --> 00:33:07,550

more than 30 40 people all week we've

842

00:33:11,860 --> 00:33:09,920

already almost tripled by the month now

843

00:33:14,140 --> 00:33:11,870

I must say the old stick a spoon bending

844

00:33:16,690 --> 00:33:14,150

is serving as well it is it is a lot of

845

00:33:18,190 --> 00:33:16,700

people are impressed some don't really

846

00:33:20,020 --> 00:33:18,200

care so much but for the most part

847

00:33:22,090 --> 00:33:20,030

people been very very impressed by it

848

00:33:23,950 --> 00:33:22,100

and that's actually drawn several people

849

00:33:25,660 --> 00:33:23,960

in the group we had a gun one go

850

00:33:28,660 --> 00:33:25,670

shrieking just a moment ago it was quite

851

00:33:30,550 --> 00:33:28,670

funny no I was very it's very good to

852

00:33:33,880 --> 00:33:30,560

see an interesting comment I heard was

853

00:33:36,850 --> 00:33:33,890

somebody one young student was telling

854

00:33:39,850 --> 00:33:36,860

me how she was interested suddenly when

855

00:33:41,560 --> 00:33:39,860

she heard me say haunted houses now I

856

00:33:42,790 --> 00:33:41,570

don't know if there's any haunted

857

00:33:45,220 --> 00:33:42,800

locations around this neck of the woods

858

00:33:46,750 --> 00:33:45,230

I think pretty much everywhere the

859

00:33:48,220 --> 00:33:46,760

supposedly haunted houses I think you

860

00:33:49,750 --> 00:33:48,230

have to go further up in blue mountains

861

00:33:52,090 --> 00:33:49,760

or down by the rocks to really get the

862

00:33:54,130 --> 00:33:52,100

authentic haunted houses the authentic

863

00:33:56,590 --> 00:33:54,140

or as opposed to those fake haunted

864

00:33:58,360 --> 00:33:56,600

house you can't see my quotation marks

865

00:34:00,160 --> 00:33:58,370

in the air but yes the authentic haunted

866

00:34:01,990 --> 00:34:00,170

houses there goes to her group's down in

867

00:34:03,310 --> 00:34:02,000

the rocks quite frankly and I actually

868

00:34:05,350 --> 00:34:03,320

walked past them I go to work at the

869

00:34:06,910 --> 00:34:05,360

observatory and they've got a guy in the

870

00:34:09,070 --> 00:34:06,920

dark tape that he's talking on

871

00:34:10,090 --> 00:34:09,080

melodramatically and I kind of have to

872

00:34:11,860 --> 00:34:10,100

walk through the middle of the group

873

00:34:13,210 --> 00:34:11,870

every time and it's interesting to hear

874

00:34:14,460 --> 00:34:13,220

some of the stuff they talked about at

875

00:34:18,200 --> 00:34:14,470

the observatory I've actually had people

876

00:34:20,629 --> 00:34:18,210

ask me if the the grounds were haunted

877

00:34:22,099 --> 00:34:20,639

and sometimes I just say no but if I'm

878

00:34:23,629 --> 00:34:22,109

feeling a bit cheeky sometimes I'll tell

879

00:34:25,399 --> 00:34:23,639

them stories about how astronomers of

880

00:34:27,290 --> 00:34:25,409

have mysteriously died over the years

881

00:34:28,550 --> 00:34:27,300

but I used to hang people on that hill

882

00:34:30,139 --> 00:34:28,560

you know in the early days of the

883

00:34:32,359 --> 00:34:30,149

settlement all of course as always

884

00:34:33,889 --> 00:34:32,369

hangings everywhere yeah and there's a

885

00:34:36,290 --> 00:34:33,899

post supposedly little girl that haunts

886

00:34:37,490 --> 00:34:36,300

the place as well but some of the girls

887

00:34:38,899 --> 00:34:37,500

i should get very frightened and asked

888

00:34:40,040 --> 00:34:38,909

me to stop talking when we're in the

889

00:34:43,760 --> 00:34:40,050

telescope because they were getting

890

00:34:45,440 --> 00:34:43,770

scared oh boy oh boy well it's really

891

00:34:47,540 --> 00:34:45,450

encouraging to be here and they say all

892

00:34:51,139 --> 00:34:47,550

the people come along and to the to the

893

00:34:52,730 --> 00:34:51,149

steel skeptic stand now people want to

894

00:34:55,419 --> 00:34:52,740

find out more about Macquarie skeptics

895

00:34:57,170 --> 00:34:55,429

way to the head Macquarie skeptics calm

896

00:34:59,210 --> 00:34:57,180

everything is there we've got all of our

897

00:35:03,400 --> 00:34:59,220

events we have a newsletter coming out

898

00:35:05,180 --> 00:35:03,410

this weekend on the what is that the

899

00:35:06,620 --> 00:35:05,190

27-6 something like that one of those

900

00:35:08,990 --> 00:35:06,630

days this weekend we have the newsletter

901
00:35:10,670 --> 00:35:09,000
coming out just full of articles puzzles

902
00:35:12,140 --> 00:35:10,680
details of all the events coming up

903
00:35:14,480 --> 00:35:12,150
including skeptics week which will be

904
00:35:16,970 --> 00:35:14,490
coming up about two weeks all that is on

905
00:35:18,829 --> 00:35:16,980
there lengthen everything so especially

906
00:35:20,870 --> 00:35:18,839
listeners in Australia skeptical

907
00:35:22,040 --> 00:35:20,880
students out there contact them Cory

908
00:35:24,470 --> 00:35:22,050
skeptics they can give you some pointers

909
00:35:30,080 --> 00:35:24,480
about starting your own skeptical outfit

910
00:35:36,230 --> 00:35:33,290
hi I'm Alice at eight host of the new by

911
00:35:38,090 --> 00:35:36,240
weekly podcast the pseudo-scientists the

912
00:35:40,670 --> 00:35:38,100
official podcast of the young Australian

913
00:35:43,340 --> 00:35:40,680

skeptics John Eliot birch daily breeders

914

00:35:45,590 --> 00:35:43,350

Jason ball Jack Scanlon k rush and

915

00:35:47,930 --> 00:35:45,600

myself to hear what our generation have

916

00:35:50,300 --> 00:35:47,940

to say about quackery science and the

917

00:35:55,810 --> 00:35:50,310

issues that concern us subscribe to our

918

00:36:06,260 --> 00:35:58,850

you're listening to the skeptic zone I'm

919

00:36:09,230 --> 00:36:06,270

Brian Dunning from SCAP thaicom now it's

920

00:36:14,300 --> 00:36:09,240

time for dr. Rachel reports with dr.

921

00:36:18,080 --> 00:36:14,310

Rachel Dunlop hello everyone and welcome

922

00:36:19,970 --> 00:36:18,090

to dr. Rachel reports with recent talk

923

00:36:22,100 --> 00:36:19,980

about how the anti-vaccine crowd have

924

00:36:24,260 --> 00:36:22,110

affected rates of vaccination in the UK

925

00:36:25,910 --> 00:36:24,270

and the states I thought it might be

926

00:36:29,000 --> 00:36:25,920

interesting to look closer to home to

927

00:36:30,710 --> 00:36:29,010

see how Australia stacks up this week

928

00:36:32,810 --> 00:36:30,720

Medicare which is Australia's

929

00:36:34,640 --> 00:36:32,820

government-run health body released

930

00:36:37,520 --> 00:36:34,650

figures from the Australian childhood

931

00:36:41,150 --> 00:36:37,530

immunization register which details the

932

00:36:43,730 --> 00:36:41,160

rate of immunization in Australia the

933

00:36:46,040 --> 00:36:43,740

latest figures are from December 2008

934

00:36:49,490 --> 00:36:46,050

and on the face of it it seems we are

935

00:36:51,110 --> 00:36:49,500

doing pretty well for kids aged up to 15

936

00:36:54,200 --> 00:36:51,120

months the national average for

937

00:36:57,200 --> 00:36:54,210

immunization is ninety-one percent with

938

00:36:59,840 --> 00:36:57,210

the lowest levels being 89.9 percent for

939

00:37:02,300 --> 00:36:59,850

Western Australia the national average

940

00:37:05,060 --> 00:37:02,310

falls to eighty eight point four percent

941

00:37:06,680 --> 00:37:05,070

in the up to five years old group with

942

00:37:09,340 --> 00:37:06,690

the lowest compliance of eighty five

943

00:37:11,780 --> 00:37:09,350

point five percent in South Australia

944

00:37:14,090 --> 00:37:11,790

but when you consider that approximately

945

00:37:16,940 --> 00:37:14,100

ninety percent vaccination is needed to

946

00:37:19,160 --> 00:37:16,950

obtain her immunity however this depends

947

00:37:22,520 --> 00:37:19,170

on the vaccine and the disease these

948

00:37:24,140 --> 00:37:22,530

figures are encouraging there are Rob

949

00:37:26,200 --> 00:37:24,150

Menzies from the National Center for

950

00:37:28,820 --> 00:37:26,210

immunization research and surveillance

951
00:37:31,070 --> 00:37:28,830
said that in some cases where there are

952
00:37:33,080 --> 00:37:31,080
low vaccination rates these are often

953
00:37:34,820 --> 00:37:33,090
more prevalent where well educated

954
00:37:37,040 --> 00:37:34,830
parents did their own research and

955
00:37:39,740 --> 00:37:37,050
believed the myths that vaccines did

956
00:37:41,570 --> 00:37:39,750
more harm than good and this was

957
00:37:43,820 --> 00:37:41,580
reflected in figures for Sydney's

958
00:37:45,860 --> 00:37:43,830
exclusive eastern suburbs where

959
00:37:49,670 --> 00:37:45,870
includes the Harborview well-to-do

960
00:37:51,290 --> 00:37:49,680
suburbs of Double Bay and for clues now

961
00:37:52,910 --> 00:37:51,300
these were ranked the worst with only

962
00:37:55,670 --> 00:37:52,920
eighty percent of children in these

963
00:37:57,680 --> 00:37:55,680

areas being immunized and this was

964

00:38:00,080 --> 00:37:57,690

followed closely by the areas of lismore

965

00:38:02,120 --> 00:38:00,090

Alstonville and Byron Bay Witcher areas

966

00:38:05,630 --> 00:38:02,130

known for their alternative lifestyles

967

00:38:07,160 --> 00:38:05,640

so this is not a big surprise now since

968

00:38:09,290 --> 00:38:07,170

these figures have been released there

969

00:38:11,150 --> 00:38:09,300

has been much discussion and speculation

970

00:38:13,220 --> 00:38:11,160

about why the wealthy suburbs are

971

00:38:16,640 --> 00:38:13,230

seemingly less likely to get their kids

972

00:38:19,760 --> 00:38:16,650

vaccinated one journalist described the

973

00:38:23,210 --> 00:38:19,770

parents as selfish dummy mummys needing

974

00:38:25,220 --> 00:38:23,220

their conscience pricked Adele Horan

975

00:38:26,570 --> 00:38:25,230

doesn't beat around the bush she

976
00:38:29,420 --> 00:38:26,580
reported in The Sydney Morning Herald

977
00:38:31,790 --> 00:38:29,430
that these are women who spend too many

978
00:38:34,010 --> 00:38:31,800
hours on wacky internet health sites and

979
00:38:37,610 --> 00:38:34,020
become convinced that immunization is a

980
00:38:40,370 --> 00:38:37,620
great conspiracy she further described

981
00:38:41,540 --> 00:38:40,380
these parents as the educated mother who

982
00:38:43,160 --> 00:38:41,550
thinks she knows better than the

983
00:38:46,190 --> 00:38:43,170
overwhelming majority of the world's

984
00:38:47,810 --> 00:38:46,200
scientists and doctors and as you can

985
00:38:51,320 --> 00:38:47,820
imagine she received some pretty nasty

986
00:38:54,200 --> 00:38:51,330
letters the following day she also said

987
00:38:56,030 --> 00:38:54,210
this around the world resistance to

988
00:38:59,390 --> 00:38:56,040

vaccination is strongest amongst the

989

00:39:01,970 --> 00:38:59,400

affluent and educated these statements

990

00:39:03,560 --> 00:39:01,980

are supported by arthur allen author of

991

00:39:06,890 --> 00:39:03,570

the book vaccine a history of

992

00:39:08,930 --> 00:39:06,900

immunization he observed that living in

993

00:39:11,470 --> 00:39:08,940

a place with a high percentage of PhDs

994

00:39:15,170 --> 00:39:11,480

is a risk factor for whooping cough

995

00:39:17,300 --> 00:39:15,180

skating stuff indeed but in a case of

996

00:39:19,160 --> 00:39:17,310

backward logic the anti vectors have

997

00:39:22,670 --> 00:39:19,170

actually claimed this for themselves

998

00:39:24,890 --> 00:39:22,680

loudly proclaiming parents continue to

999

00:39:27,410 --> 00:39:24,900

be accused of being ignorant uncaring

1000

00:39:29,120 --> 00:39:27,420

and stupid for refusing vaccines which

1001
00:39:31,370 --> 00:39:29,130
the medical community claim will keep

1002
00:39:34,220 --> 00:39:31,380
their children healthy when the truth is

1003
00:39:38,060 --> 00:39:34,230
older highly educated parents form the

1004
00:39:39,470 --> 00:39:38,070
basis of the anti immunization Lobby not

1005
00:39:41,870 --> 00:39:39,480
something to be proud of I would have

1006
00:39:43,400 --> 00:39:41,880
thought however one wonders if these are

1007
00:39:46,400 --> 00:39:43,410
the parents glued to morning television

1008
00:39:48,200 --> 00:39:46,410
where the likes of merrill dory from the

1009
00:39:50,240 --> 00:39:48,210
australian vaccination network can

1010
00:39:53,750 --> 00:39:50,250
regularly be seen spouting her

1011
00:39:55,550 --> 00:39:53,760
misinformed anti-vaccine on sense yes

1012
00:39:57,440 --> 00:39:55,560
people we have our own version of Jenny

1013
00:40:00,589 --> 00:39:57,450

McCarthy in Australia we are not

1014

00:40:03,200 --> 00:40:00,599

mune now the innocuous Lee titled

1015

00:40:05,660 --> 00:40:03,210

Australian vaccination network fronted

1016

00:40:08,329 --> 00:40:05,670

by the screeching Merrill dory go by the

1017

00:40:10,730 --> 00:40:08,339

catchphrase love them protects them

1018

00:40:12,560 --> 00:40:10,740

never injects them she is regularly

1019

00:40:15,500 --> 00:40:12,570

given a platform on morning television

1020

00:40:18,290 --> 00:40:15,510

shows in Australia such as mornings with

1021

00:40:20,000 --> 00:40:18,300

kerri-anne Kennerley in defense of

1022

00:40:22,130 --> 00:40:20,010

kerri-anne Kennerley they usually have a

1023

00:40:25,579 --> 00:40:22,140

representative from the sensible side in

1024

00:40:27,800 --> 00:40:25,589

this case dr. penny Adams however just

1025

00:40:30,020 --> 00:40:27,810

like the overseas breeds Meryl is not

1026

00:40:33,200 --> 00:40:30,030

shy about exposing her ignorance to a

1027

00:40:35,089 --> 00:40:33,210

national audience well not what's wrong

1028

00:40:36,620 --> 00:40:35,099

with vaccinator well I don't think

1029

00:40:38,480 --> 00:40:36,630

there's anything wrong with the idea of

1030

00:40:40,160 --> 00:40:38,490

vaccinations but unfortunately there

1031

00:40:42,170 --> 00:40:40,170

isn't a whole lot of science to back it

1032

00:40:44,120 --> 00:40:42,180

up dr. penny said that if we get enough

1033

00:40:47,000 --> 00:40:44,130

people vaccinated will see the disease's

1034

00:40:48,800 --> 00:40:47,010

wiped out on the Guardian and I don't

1035

00:40:50,720 --> 00:40:48,810

want to seem to interrupt you say not

1036

00:40:53,150 --> 00:40:50,730

enough science to back it up I'm a late

1037

00:40:56,359 --> 00:40:53,160

person I do know this information says

1038

00:40:58,490 --> 00:40:56,369

we've been polio-free since 2000 that to

1039

00:41:02,050 --> 00:40:58,500

me says there's a bit of science that

1040

00:41:04,550 --> 00:41:02,060

polio vaccinations were need i say more

1041

00:41:06,470 --> 00:41:04,560

however as a further demonstration of

1042

00:41:08,180 --> 00:41:06,480

how little the Australian vaccination

1043

00:41:10,430 --> 00:41:08,190

net won't understand about science and

1044

00:41:13,520 --> 00:41:10,440

medicine i will use an article written

1045

00:41:17,660 --> 00:41:13,530

by them known as 10 reasons why not to

1046

00:41:20,990 --> 00:41:17,670

vaccinate reason one vaccines have never

1047

00:41:22,940 --> 00:41:21,000

been tested this statement encompasses

1048

00:41:24,650 --> 00:41:22,950

the full gamut of how little the

1049

00:41:26,630 --> 00:41:24,660

Australian vaccination network know

1050

00:41:29,359 --> 00:41:26,640

about how the drug development process

1051
00:41:31,640 --> 00:41:29,369
works I won't bore you with the details

1052
00:41:33,530 --> 00:41:31,650
of this today but I will tell you it

1053
00:41:35,210 --> 00:41:33,540
takes millions of dollars around ten

1054
00:41:37,849 --> 00:41:35,220
years and at least four phases of

1055
00:41:40,670 --> 00:41:37,859
testing which continues even after the

1056
00:41:42,890 --> 00:41:40,680
drug is released evidence that this

1057
00:41:45,589 --> 00:41:42,900
process works can be found in the case

1058
00:41:48,290 --> 00:41:45,599
of a vaccine for the rotavirus called

1059
00:41:53,720 --> 00:41:48,300
rotor shield which was released in the

1060
00:41:56,240 --> 00:41:53,730
US in 1998 in pre-licensure trials the

1061
00:41:58,250 --> 00:41:56,250
vaccine appeared to be safe but in post

1062
00:42:00,010 --> 00:41:58,260
licensure surveillance it was associated

1063
00:42:03,140 --> 00:42:00,020

with an increased risk of

1064

00:42:05,150 --> 00:42:03,150

intussusception which is a rare form of

1065

00:42:07,430 --> 00:42:05,160

bowel obstruction occurring in infants

1066

00:42:09,859 --> 00:42:07,440

as soon as this problem was discovered

1067

00:42:10,970 --> 00:42:09,869

the vaccine was withdrawn from the

1068

00:42:12,710 --> 00:42:10,980

market

1069

00:42:18,560 --> 00:42:12,720

rotor shield was never released in

1070

00:42:22,250 --> 00:42:18,570

australia number two vaccines contain

1071

00:42:24,170 --> 00:42:22,260

toxic additives and heavy metals well

1072

00:42:26,180 --> 00:42:24,180

here the avn are of course scare

1073

00:42:28,250 --> 00:42:26,190

mongering with thimerosal which is the

1074

00:42:30,470 --> 00:42:28,260

mercury based preservative that has been

1075

00:42:33,260 --> 00:42:30,480

used in very small amounts in some

1076

00:42:36,620 --> 00:42:33,270

vaccines since the 1930s to prevent

1077

00:42:38,690 --> 00:42:36,630

bacterial and fungal contamination but

1078

00:42:41,180 --> 00:42:38,700

there is no evidence that thimerosal has

1079

00:42:43,520 --> 00:42:41,190

caused any health problems except

1080

00:42:46,130 --> 00:42:43,530

perhaps minor reactions such as redness

1081

00:42:48,260 --> 00:42:46,140

at the injection site in any case

1082

00:42:51,020 --> 00:42:48,270

thimerosal was removed from childhood

1083

00:42:53,960 --> 00:42:51,030

vaccines as a precaution in two thousand

1084

00:42:56,690 --> 00:42:53,970

and some vaccines such as pneumococcal

1085

00:42:58,670 --> 00:42:56,700

vaccines the MMR and other live

1086

00:43:01,880 --> 00:42:58,680

attenuated viral vaccines never

1087

00:43:04,160 --> 00:43:01,890

contained thimerosal whilst there are

1088

00:43:06,680 --> 00:43:04,170

certain vaccines for adults in Australia

1089

00:43:09,440 --> 00:43:06,690

that still contain thimerosal the levels

1090

00:43:11,840 --> 00:43:09,450

are extremely low much lower than the

1091

00:43:15,620 --> 00:43:11,850

level of exposure we obtain to mercury

1092

00:43:17,599 --> 00:43:15,630

in our daily lives I don't have the time

1093

00:43:19,580 --> 00:43:17,609

or energy to discuss all the claims made

1094

00:43:22,190 --> 00:43:19,590

by the Australian vaccination network in

1095

00:43:24,560 --> 00:43:22,200

this article except to say that they are

1096

00:43:26,620 --> 00:43:24,570

full of accusations and conspiracies we

1097

00:43:29,359 --> 00:43:26,630

have come to expect from these people

1098

00:43:31,190 --> 00:43:29,369

these include such gems as the

1099

00:43:32,840 --> 00:43:31,200

pharmaceutical companies have paid for

1100

00:43:35,390 --> 00:43:32,850

all the vaccine studies to date

1101

00:43:38,420 --> 00:43:35,400

therefore they are flawed and then

1102

00:43:40,430 --> 00:43:38,430

there's this extraordinary claim some

1103

00:43:43,490 --> 00:43:40,440

childhood illnesses have beneficial

1104

00:43:45,680 --> 00:43:43,500

aspects and therefore prevention may not

1105

00:43:48,980 --> 00:43:45,690

necessarily be in the interests of the

1106

00:43:51,590 --> 00:43:48,990

child you really think so Merrill dory

1107

00:43:54,200 --> 00:43:51,600

well why don't we use one example of a

1108

00:43:56,540 --> 00:43:54,210

childhood illness whooping cough which

1109

00:43:57,740 --> 00:43:56,550

can be vaccinated for and look at

1110

00:44:00,830 --> 00:43:57,750

whether it's in the interest of the

1111

00:44:02,480 --> 00:44:00,840

child to contract it I choose whooping

1112

00:44:05,780 --> 00:44:02,490

cough since Australia is currently

1113

00:44:09,170 --> 00:44:05,790

experiencing an epidemic now according

1114

00:44:11,120 --> 00:44:09,180

to some reports more than 8,300 cases

1115

00:44:15,020 --> 00:44:11,130

were reported in New South Wales last

1116

00:44:17,480 --> 00:44:15,030

year in October 2008 40 cases were

1117

00:44:19,040 --> 00:44:17,490

reported from the same school and the

1118

00:44:21,170 --> 00:44:19,050

Health Service said that most of these

1119

00:44:24,560 --> 00:44:21,180

cases were in children who had not been

1120

00:44:27,340 --> 00:44:24,570

immunized whooping cough is caused by

1121

00:44:29,720 --> 00:44:27,350

the bacterium bordetella pertussis

1122

00:44:32,930 --> 00:44:29,730

babies are vaccinated against whooping

1123

00:44:35,349 --> 00:44:32,940

cough at two months then boosted at four

1124

00:44:37,910 --> 00:44:35,359

months six months and four years a

1125

00:44:39,920 --> 00:44:37,920

booster dose is also recommended for

1126
00:44:41,540 --> 00:44:39,930
adolescents and certain adults such as

1127
00:44:44,260 --> 00:44:41,550
healthcare workers and those who work

1128
00:44:46,609 --> 00:44:44,270
with young babies in young children

1129
00:44:49,400 --> 00:44:46,619
whooping cough is particularly serious

1130
00:44:52,580 --> 00:44:49,410
where one in every 200 babies who can

1131
00:44:54,470 --> 00:44:52,590
track the infection will die some can

1132
00:44:57,710 --> 00:44:54,480
even crack their ribs through violent

1133
00:44:59,780 --> 00:44:57,720
coughing attacks a recent report about

1134
00:45:02,599 --> 00:44:59,790
the epidemic cited the story of a

1135
00:45:05,870 --> 00:45:02,609
14-week old girl who has had whooping

1136
00:45:07,820 --> 00:45:05,880
cough since he was two weeks old her

1137
00:45:10,040 --> 00:45:07,830
terrified mother said she had turned

1138
00:45:13,940 --> 00:45:10,050

blue several times during coughing fits

1139

00:45:15,680 --> 00:45:13,950

as she gasped for air whooping cough is

1140

00:45:18,530 --> 00:45:15,690

not a disease you want to mess with it

1141

00:45:20,660 --> 00:45:18,540

causes considerable morbidity the

1142

00:45:22,310 --> 00:45:20,670

disease is particularly serious in small

1143

00:45:24,890 --> 00:45:22,320

children as it can cause them to stop

1144

00:45:27,320 --> 00:45:24,900

breathing the whoop which is not always

1145

00:45:28,810 --> 00:45:27,330

obvious is due to a deep breath at the

1146

00:45:32,120 --> 00:45:28,820

end of a bout of coughing and vomiting

1147

00:45:34,190 --> 00:45:32,130

after coughing is common severe

1148

00:45:36,170 --> 00:45:34,200

complications which occur almost

1149

00:45:39,830 --> 00:45:36,180

exclusively and unvaccinated people

1150

00:45:41,750 --> 00:45:39,840

include seizures and pneumonia in babies

1151
00:45:43,520 --> 00:45:41,760
under six months of age the symptoms can

1152
00:45:47,330 --> 00:45:43,530
be severe or life-threatening and

1153
00:45:49,010 --> 00:45:47,340
include hemorrhage apnea which is when

1154
00:45:52,070 --> 00:45:49,020
you stop breathing for short or long

1155
00:45:54,820 --> 00:45:52,080
periods of time pneumonia inflammation

1156
00:45:58,060 --> 00:45:54,830
of the brain convulsions and coma

1157
00:46:00,200 --> 00:45:58,070
permanent brain damage and death

1158
00:46:02,480 --> 00:46:00,210
according to health officials in New

1159
00:46:04,280 --> 00:46:02,490
South Wales the recent epidemic of

1160
00:46:07,400 --> 00:46:04,290
whooping cough is likely a result of a

1161
00:46:09,080 --> 00:46:07,410
reduction in vaccination the north coast

1162
00:46:12,349 --> 00:46:09,090
Area Health Service Director of Public

1163
00:46:14,420 --> 00:46:12,359

Health Paul corbin said communities with

1164

00:46:16,580 --> 00:46:14,430

low vaccination rates have had more than

1165

00:46:18,800 --> 00:46:16,590

eight times the rate of disease seen in

1166

00:46:21,530 --> 00:46:18,810

those areas with the highest vaccination

1167

00:46:23,510 --> 00:46:21,540

rates while according to the Australian

1168

00:46:25,070 --> 00:46:23,520

vaccination Network you don't need to

1169

00:46:27,290 --> 00:46:25,080

vaccinate against whooping cough

1170

00:46:30,980 --> 00:46:27,300

sometimes it's better for kids to just

1171

00:46:33,170 --> 00:46:30,990

catch it and although this organization

1172

00:46:35,390 --> 00:46:33,180

is relatively small they do have a lot

1173

00:46:36,980 --> 00:46:35,400

of influence and are also well organized

1174

00:46:39,060 --> 00:46:36,990

and very active

1175

00:46:41,310 --> 00:46:39,070

Australian listeners may remember the

1176
00:46:43,680 --> 00:46:41,320
case of parents who fled hospital and

1177
00:46:46,740 --> 00:46:43,690
the authorities with their newborn boy

1178
00:46:50,130 --> 00:46:46,750
in August 2008 to avoid having to have

1179
00:46:52,050 --> 00:46:50,140
him vaccinated for hepatitis B the sad

1180
00:46:54,720 --> 00:46:52,060
thing was the mother was hepatitis B

1181
00:46:57,030 --> 00:46:54,730
positive herself and although it is not

1182
00:46:59,610 --> 00:46:57,040
compulsory to be vaccinated in Australia

1183
00:47:01,470 --> 00:46:59,620
it is health department policy that

1184
00:47:04,320 --> 00:47:01,480
children born of hepatitis B positive

1185
00:47:06,360 --> 00:47:04,330
mothers are offered immunoglobulin for

1186
00:47:08,730 --> 00:47:06,370
the child within 12 hours of birth and

1187
00:47:12,720 --> 00:47:08,740
four doses of the vaccine over six

1188
00:47:14,280 --> 00:47:12,730

months in a tragic tale of ignorance the

1189

00:47:16,980 --> 00:47:14,290

mother told reporters that the couple

1190

00:47:18,690 --> 00:47:16,990

believed aluminium in the vaccine could

1191

00:47:22,110 --> 00:47:18,700

cause him more damage than the child

1192

00:47:24,240 --> 00:47:22,120

contracting hepatitis B and of course

1193

00:47:26,790 --> 00:47:24,250

the father is a member of the Australian

1194

00:47:31,230 --> 00:47:26,800

vaccination network by which the couple

1195

00:47:33,510 --> 00:47:31,240

are now touted as heroes Australia also

1196

00:47:35,580 --> 00:47:33,520

has the usual suspects such as the

1197

00:47:37,860 --> 00:47:35,590

chiropractors who don't proclaim it from

1198

00:47:40,560 --> 00:47:37,870

the rooftops but upon questioning will

1199

00:47:43,470 --> 00:47:40,570

tell you not to vaccinate they will also

1200

00:47:45,510 --> 00:47:43,480

follow the MMR autism line and I had one

1201
00:47:48,960 --> 00:47:45,520
tell me this at a recent mother's babies

1202
00:47:50,790 --> 00:47:48,970
and pregnancy Expo and of course we

1203
00:47:53,010 --> 00:47:50,800
can't forget the despicable homeopaths

1204
00:47:54,630 --> 00:47:53,020
who will also tell you on the sly that

1205
00:47:57,390 --> 00:47:54,640
you can use homeopathy to vaccinate your

1206
00:48:00,630 --> 00:47:57,400
kids I won't discuss this further today

1207
00:48:05,160 --> 00:48:00,640
because a it makes me too angry and B it

1208
00:48:06,510 --> 00:48:05,170
requires its own show entirely for more

1209
00:48:09,120 --> 00:48:06,520
information about the myths and

1210
00:48:11,460 --> 00:48:09,130
realities of vaccination the Australian

1211
00:48:13,880 --> 00:48:11,470
government publishes a brochure called

1212
00:48:15,960 --> 00:48:13,890
vaccination myths and realities

1213
00:48:18,450 --> 00:48:15,970

responding to arguments against

1214

00:48:20,520 --> 00:48:18,460

immunisation this is a thoroughly

1215

00:48:22,500 --> 00:48:20,530

researched and easy-to-read resource

1216

00:48:26,310 --> 00:48:22,510

which addresses fact and fiction about

1217

00:48:27,660 --> 00:48:26,320

immunization it's also useful even if

1218

00:48:29,640 --> 00:48:27,670

you are not in Australia and

1219

00:48:31,140 --> 00:48:29,650

particularly good for passing the way of

1220

00:48:32,850 --> 00:48:31,150

anyone you know who might have some

1221

00:48:36,630 --> 00:48:32,860

dodgy ideas about the merits of

1222

00:48:38,430 --> 00:48:36,640

vaccination for further reading and the

1223

00:48:40,470 --> 00:48:38,440

references for this story head to my

1224

00:48:43,140 --> 00:48:40,480

blog which is linked from skeptic zone

1225

00:48:45,180 --> 00:48:43,150

TV and thank you to everyone who has

1226

00:48:47,580 --> 00:48:45,190

been emailing me and leaving comments on

1227

00:48:50,370 --> 00:48:47,590

the blog also don't forget I have

1228

00:48:52,890 --> 00:48:50,380

another blog at skeptics book calm

1229

00:49:04,150 --> 00:48:52,900

and until next time this has been dr.

1230

00:49:08,780 --> 00:49:06,950

breaking news science was arrested

1231

00:49:10,790 --> 00:49:08,790

yesterday for exposing himself in public

1232

00:49:13,309 --> 00:49:10,800

on a website called smart acts calm

1233

00:49:15,319 --> 00:49:13,319

science denied any wrongdoing in a

1234

00:49:18,520 --> 00:49:15,329

statement smart acts calm said they

1235

00:49:25,790 --> 00:49:18,530

would do it again and again and again

1236

00:49:34,880 --> 00:49:25,800

smart acts calm join us now for drinking

1237

00:49:38,390 --> 00:49:36,620

good evening good afternoon or good

1238

00:49:41,779 --> 00:49:38,400

morning as James Randi would say and

1239

00:49:46,480 --> 00:49:41,789

welcome to the think tank cheers cheers

1240

00:49:48,970 --> 00:49:46,490

Cheers hmm

1241

00:49:52,390 --> 00:49:48,980

oh that's better nice cheap champagne

1242

00:49:56,740 --> 00:49:52,400

I'm joined tonight by Iran's they give

1243

00:49:58,630 --> 00:49:56,750

good anger on hello dr. rachy dr. Rachel

1244

00:50:00,609 --> 00:49:58,640

Dunlop hi Richard how are you I'm fine

1245

00:50:03,430 --> 00:50:00,619

thank you for your report earlier in the

1246

00:50:07,240 --> 00:50:03,440

show good as ever and some guy we found

1247

00:50:09,910 --> 00:50:07,250

on the street Dave the happy singer okay

1248

00:50:12,280 --> 00:50:09,920

welcome back thank you thank you did you

1249

00:50:14,230 --> 00:50:12,290

miss me yeah we always we always with to

1250

00:50:16,210 --> 00:50:14,240

you we always miss you Dave the happy

1251
00:50:18,460 --> 00:50:16,220
singer i'm going to start straight off i

1252
00:50:20,320 --> 00:50:18,470
am this think tank i want to give a big

1253
00:50:24,280 --> 00:50:20,330
shout out to my good friend Mario

1254
00:50:26,950 --> 00:50:24,290
otherwise known as muy ooh hi meri P I'm

1255
00:50:31,840 --> 00:50:26,960
le poop now she's involved with the new

1256
00:50:35,290 --> 00:50:31,850
site called smart XCOM and access in

1257
00:50:36,760 --> 00:50:35,300
chopping the tree acts smart x comma she

1258
00:50:40,660 --> 00:50:36,770
says it's the sort of the naughtiest

1259
00:50:42,130 --> 00:50:40,670
side of science well and I think Rachel

1260
00:50:44,220 --> 00:50:42,140
there's something on there to do well

1261
00:50:46,570 --> 00:50:44,230
there will be soon to do with breasts so

1262
00:50:48,640 --> 00:50:46,580
I've heard a rumor about that when you

1263
00:50:49,930 --> 00:50:48,650

know i'm not sure what she is well she

1264

00:50:52,030 --> 00:50:49,940

has got some stuff up there already

1265

00:50:53,349 --> 00:50:52,040

about oscillating breasts but i don't

1266

00:50:54,609 --> 00:50:53,359

want to give anything away i'm not sure

1267

00:50:57,040 --> 00:50:54,619

what it's actually up there at this

1268

00:50:58,770 --> 00:50:57,050

point yeah oscillating brush yes yeah

1269

00:51:02,109 --> 00:50:58,780

it's like that if you think so awesome

1270

00:51:05,740 --> 00:51:02,119

no it's explaining physics three options

1271

00:51:08,650 --> 00:51:05,750

and i've seen i woulda diviners use all

1272

00:51:10,570 --> 00:51:08,660

sorts of things I really have are you

1273

00:51:13,480 --> 00:51:10,580

suggesting I could use something else i

1274

00:51:15,340 --> 00:51:13,490

have from wrong yeah well there's no i'm

1275

00:51:16,840 --> 00:51:15,350

rhyiming this I realized there's an audio

1276

00:51:19,890 --> 00:51:16,850

based medium but I can't describe this

1277

00:51:23,080 --> 00:51:19,900

idea I've got other than and it kind of

1278

00:51:25,780 --> 00:51:23,090

mine I wish this was video now what are

1279

00:51:28,930 --> 00:51:25,790

also has invested well their breasts oh

1280

00:51:31,060 --> 00:51:28,940

really oh right the small tax is that

1281

00:51:32,920 --> 00:51:31,070

with annie varughese or without witness

1282

00:51:36,970 --> 00:51:32,930

the Americans to it with our Naidu yeah

1283

00:51:42,359 --> 00:51:36,980

it is I am A Wish would it this is rose

1284

00:51:45,760 --> 00:51:42,369

into the nest hey hey hey exhale com I

1285

00:51:52,510 --> 00:51:45,770

am so smart I am so smart estimate II I

1286

00:51:52,520 --> 00:51:58,839

hey yo que era just go on the silent

1287

00:52:04,490 --> 00:52:01,579

hexbug now folks with that with that

1288

00:52:08,420 --> 00:52:04,500

level of Murphy on this side of the this

1289

00:52:10,760 --> 00:52:08,430

is a matter for math Murph visit smart

1290

00:52:14,270 --> 00:52:10,770

acts and doctor with a nice mark acts

1291

00:52:17,059 --> 00:52:14,280

calm and find out more because muy poo

1292

00:52:19,640 --> 00:52:17,069

has done a tremendous amount of very

1293

00:52:21,500 --> 00:52:19,650

funny science videos and she's just

1294

00:52:23,900 --> 00:52:21,510

relaunched this website as well as she

1295

00:52:26,410 --> 00:52:23,910

heard she is right you really really

1296

00:52:29,480 --> 00:52:26,420

worth a look its release visit smart

1297

00:52:31,550 --> 00:52:29,490

XCOM so Rachel what do you have first

1298

00:52:34,670 --> 00:52:31,560

night oh I've got a story about am

1299

00:52:37,640 --> 00:52:34,680

driver in Brisbane who was accused of

1300

00:52:39,410 --> 00:52:37,650

drink-driving recently this story

1301
00:52:42,559 --> 00:52:39,420
appeared in the brisbane courier-mail on

1302
00:52:44,450 --> 00:52:42,569
the eighteenth of february and it was a

1303
00:52:48,079 --> 00:52:44,460
case of a gentleman who was picked up

1304
00:52:51,559 --> 00:52:48,089
for drink driving he was found by police

1305
00:52:55,160 --> 00:52:51,569
in his car wearing only his underpants

1306
00:52:56,780 --> 00:52:55,170
oh and when Polly's tapped on his window

1307
00:52:59,480 --> 00:52:56,790
and woke him up he said he had no

1308
00:53:01,280 --> 00:52:59,490
recollection of what happened but his

1309
00:53:03,559 --> 00:53:01,290
blood alcohol reading was three times

1310
00:53:06,349 --> 00:53:03,569
the legal limit it was point one seven

1311
00:53:11,000 --> 00:53:06,359
six and in Australia the legal limit is

1312
00:53:13,010 --> 00:53:11,010
point zero five and even when he went to

1313
00:53:15,140 --> 00:53:13,020

court he claims that he had had one

1314

00:53:17,059 --> 00:53:15,150

glass of wine and then took to

1315

00:53:21,380 --> 00:53:17,069

homeopathic sleeping tablets an hour

1316

00:53:24,079 --> 00:53:21,390

later and his last memory is waking up

1317

00:53:26,279 --> 00:53:24,089

when ambulance officers were tapping on

1318

00:53:28,349 --> 00:53:26,289

the window of his car

1319

00:53:29,909 --> 00:53:28,359

so he went to court and told the judge

1320

00:53:33,929 --> 00:53:29,919

that it must have been the homeopathic

1321

00:53:36,870 --> 00:53:33,939

sleeping tablets I'm not so sure about

1322

00:53:38,819 --> 00:53:36,880

that I mean allegedly he had one glass

1323

00:53:41,880 --> 00:53:38,829

of wine I suspect he may have had a few

1324

00:53:43,409 --> 00:53:41,890

more glasses than one really yeah well

1325

00:53:44,759 --> 00:53:43,419

did you feel fortunate to live in a

1326
00:53:47,640 --> 00:53:44,769
country whether by where the judge

1327
00:53:48,929 --> 00:53:47,650
doesn't buy clean like that well it's

1328
00:53:52,109 --> 00:53:48,939
funny you should mention that Iran

1329
00:53:53,429 --> 00:53:52,119
because the judge fined him a thousand

1330
00:53:55,739 --> 00:53:53,439
dollars and disqualified him from

1331
00:53:57,659 --> 00:53:55,749
driving for nine months yes but it was a

1332
00:54:00,449 --> 00:53:57,669
homeopathic fine so he'd be out next

1333
00:54:02,249 --> 00:54:00,459
week or doing it well no it wasn't a

1334
00:54:04,919 --> 00:54:02,259
homeopathic fine but you you're right

1335
00:54:06,929 --> 00:54:04,929
but I guess if it was a homeopathic

1336
00:54:10,739 --> 00:54:06,939
glass of wine maybe it was super super

1337
00:54:12,569 --> 00:54:10,749
strong for super super weak which meant

1338
00:54:14,370 --> 00:54:12,579

it was super super exactly yeah that's

1339

00:54:16,709 --> 00:54:14,380

what I mean so it was super super dilute

1340

00:54:19,319 --> 00:54:16,719

therefore it was very strong so that's

1341

00:54:20,849 --> 00:54:19,329

probably why one glass resulted in him

1342

00:54:24,989 --> 00:54:20,859

being three times over the legal limit

1343

00:54:27,659 --> 00:54:24,999

and interestingly enough he is also a

1344

00:54:30,359 --> 00:54:27,669

national ballroom dancer champion well

1345

00:54:32,669 --> 00:54:30,369

in fact just as an aside that may have

1346

00:54:34,469 --> 00:54:32,679

been of interest to some people and to

1347

00:54:37,529 --> 00:54:34,479

all the homeopaths out there we don't

1348

00:54:38,969 --> 00:54:37,539

buy it for a second how many people

1349

00:54:40,859 --> 00:54:38,979

though that a ballroom dancers sit

1350

00:54:42,569 --> 00:54:40,869

around drinking in their underpants what

1351

00:54:44,549 --> 00:54:42,579

do you think he may be so well street

1352

00:54:47,699 --> 00:54:44,559

for he always drink in my mouth not my

1353

00:54:49,079 --> 00:54:47,709

own I was actually wondering how

1354

00:54:51,120 --> 00:54:49,089

everybody said how many people I was

1355

00:54:54,649 --> 00:54:51,130

thinking how many people who are only a

1356

00:54:58,279 --> 00:54:54,659

parent's actually listening to this job

1357

00:55:00,630 --> 00:54:58,289

22 yeah well how many ballroom dances

1358

00:55:03,329 --> 00:55:00,640

drank in their underpants anyway he was

1359

00:55:04,829 --> 00:55:03,339

he was charged so the judge didn't as

1360

00:55:06,029 --> 00:55:04,839

you mentioned around didn't buy the fact

1361

00:55:07,570 --> 00:55:06,039

that it was a homeopathic sleeping

1362

00:55:09,230 --> 00:55:07,580

tablet

1363

00:55:11,090 --> 00:55:09,240

Richard you know something about

1364

00:55:12,890 --> 00:55:11,100

homeopathic sleeping tablets don't you I

1365

00:55:16,310 --> 00:55:12,900

believe you've been involved in an

1366

00:55:18,470 --> 00:55:16,320

incident or a stunt way you attempted to

1367

00:55:22,160 --> 00:55:18,480

overdose on homeopath yeah that was the

1368

00:55:24,770 --> 00:55:22,170

the 2004 Australian skeptics convention

1369

00:55:27,680 --> 00:55:24,780

here in Sydney and myself in a group of

1370

00:55:29,900 --> 00:55:27,690

skeptics consumed handfuls of

1371

00:55:32,420 --> 00:55:29,910

homeopathic sleeping tablets in front of

1372

00:55:34,460 --> 00:55:32,430

a live audience and what happened

1373

00:55:36,590 --> 00:55:34,470

Richard Ellis like I haven't slept since

1374

00:55:38,180 --> 00:55:36,600

which is a bit weird but it's actually

1375

00:55:40,490 --> 00:55:38,190

not weird at all because if you think of

1376
00:55:42,620 --> 00:55:40,500
it the less commute Butler the less time

1377
00:55:46,670 --> 00:55:42,630
your pathak tablets you take the more

1378
00:55:49,420 --> 00:55:46,680
potent of hot yoga is now James Randi

1379
00:55:51,860 --> 00:55:49,430
does this a lot here he'll quaff

1380
00:55:53,600 --> 00:55:51,870
handfuls of homeopathic sleeping tablets

1381
00:55:56,390 --> 00:55:53,610
yeah there's your sugar pill so really

1382
00:55:58,220 --> 00:55:56,400
doesn't matter doesn't give you any any

1383
00:56:00,980 --> 00:55:58,230
response to you at least get a sugar

1384
00:56:02,870 --> 00:56:00,990
high or nothing nothing at all because

1385
00:56:04,820 --> 00:56:02,880
they're tiny they're miniscule these

1386
00:56:07,280 --> 00:56:04,830
tablets and they Chuck they cost a

1387
00:56:08,660 --> 00:56:07,290
fortune for a packet of them I mean we

1388
00:56:10,670 --> 00:56:08,670

aren't laid a couple of hundred dollars

1389

00:56:12,980 --> 00:56:10,680

to get enough so ever the four or five

1390

00:56:14,780 --> 00:56:12,990

of us or six or whatever it was at the

1391

00:56:16,730 --> 00:56:14,790

front of the audience could all have a

1392

00:56:20,470 --> 00:56:16,740

handful and go computing appointment

1393

00:56:23,720 --> 00:56:20,480

with nominal long and eat them all and

1394

00:56:25,520 --> 00:56:23,730

no it was it was a funny stunt but it

1395

00:56:28,370 --> 00:56:25,530

was to make a serious point but this the

1396

00:56:31,849 --> 00:56:28,380

public are being sold

1397

00:56:37,339 --> 00:56:31,859

what's the word chance a pious evos yeah

1398

00:56:40,519 --> 00:56:37,349

yeah well the next wait let me um talk

1399

00:56:42,829 --> 00:56:40,529

about ghosts Oh ghosts and what's the

1400

00:56:45,170 --> 00:56:42,839

ghost what's a ghost that's a good

1401

00:56:46,430 --> 00:56:45,180

question I don't know neither do i knew

1402

00:56:48,140 --> 00:56:46,440

you bring what asking people yeah what's

1403

00:56:49,789 --> 00:56:48,150

ago somebody I was talking to somebody

1404

00:56:51,499 --> 00:56:49,799

of you the other day on the internet and

1405

00:56:53,509 --> 00:56:51,509

we were talking about ghosts this is a

1406

00:56:55,519 --> 00:56:53,519

ghost or spirit and God is the great

1407

00:57:01,180 --> 00:56:55,529

disabilities of all and as is no single

1408

00:57:06,200 --> 00:57:03,920

that's a funny joke from Dave the happy

1409

00:57:10,130 --> 00:57:06,210

singer you can come out when I oh hey

1410

00:57:12,019 --> 00:57:10,140

wait I weren't all right in Darby in

1411

00:57:18,109 --> 00:57:12,029

England they've had some problems with a

1412

00:57:19,819 --> 00:57:18,119

ghost and this is reported today I know

1413

00:57:22,069 --> 00:57:19,829

sorry I big eponymous recorded in

1414

00:57:23,660 --> 00:57:22,079

reported in January so it's slightly old

1415

00:57:26,120 --> 00:57:23,670

maid but ghosts can hang around for a

1416

00:57:28,819 --> 00:57:26,130

long time surgical spirit spooks

1417

00:57:30,710 --> 00:57:28,829

hospital staff at the state of the art

1418

00:57:32,960 --> 00:57:30,720

on a state of stuff at a

1419

00:57:35,210 --> 00:57:32,970

state-of-the-art Hospital have called in

1420

00:57:37,609 --> 00:57:35,220

a chaplain after being spooked by a

1421

00:57:40,099 --> 00:57:37,619

ghost but have denied claims there are

1422

00:57:43,540 --> 00:57:40,109

plans to carry out an exorcism this is

1423

00:57:47,550 --> 00:57:43,550

that they endure be

1424

00:57:50,170 --> 00:57:47,560

in the UK Darby's new Royal Hospital

1425

00:57:53,020 --> 00:57:50,180

some people working they have reported

1426

00:57:54,610 --> 00:57:53,030

being scared by a ghost and there are

1427

00:57:56,980 --> 00:57:54,620

reports that they were calling in a

1428

00:58:01,150 --> 00:57:56,990

chaplain to maybe perform an exorcism

1429

00:58:03,640 --> 00:58:01,160

which is odd apparently this hospital

1430

00:58:05,560 --> 00:58:03,650

has been built on what was once a Roman

1431

00:58:08,770 --> 00:58:05,570

Road and the speculation that the ghost

1432

00:58:11,650 --> 00:58:08,780

is a Roman soldier has anyone actually

1433

00:58:13,270 --> 00:58:11,660

seen the ghost do they have vision of it

1434

00:58:16,630 --> 00:58:13,280

is that why they call it a Roman soldier

1435

00:58:19,150 --> 00:58:16,640

well that's a very good question but

1436

00:58:24,370 --> 00:58:19,160

apparently there are reports of workers

1437

00:58:27,280 --> 00:58:24,380

there being spooked haha spook pie

1438

00:58:30,240 --> 00:58:27,290

apparitions or a ghost and the quote

1439

00:58:34,510 --> 00:58:30,250

here is very strange it said experts

1440

00:58:37,840 --> 00:58:34,520

said the surgical spirit could be at the

1441

00:58:40,240 --> 00:58:37,850

ghost of a Roman soldier expert now

1442

00:58:42,700 --> 00:58:40,250

experts well experts Richard that means

1443

00:58:44,770 --> 00:58:42,710

they know everything doesn't it they're

1444

00:58:47,950 --> 00:58:44,780

not specific about what experts are they

1445

00:58:52,380 --> 00:58:47,960

know stacks books ghost expert I'm sorry

1446

00:58:55,870 --> 00:58:52,390

go with them iam it from treatment and

1447

00:58:58,720 --> 00:58:55,880

now the senior manager Debbie Butler as

1448

00:59:01,090 --> 00:58:58,730

written I'm not sure how many of you are

1449

00:59:03,250 --> 00:59:01,100

aware that some members of our staff

1450

00:59:05,230 --> 00:59:03,260

have reported seeing a ghost I'm taking

1451
00:59:08,860 --> 00:59:05,240
it seriously as last thing I want you

1452
00:59:11,860 --> 00:59:08,870
start feeling uneasy at work last thing

1453
00:59:14,020 --> 00:59:11,870
you want I'm just wondering about why

1454
00:59:16,330 --> 00:59:14,030
chaplain I mean if you have

1455
00:59:18,880 --> 00:59:16,340
ghosts than youthful Dementors or

1456
00:59:20,890 --> 00:59:18,890
something no Dementors you mean from

1457
00:59:24,840 --> 00:59:20,900
have something strange in your

1458
00:59:33,070 --> 00:59:24,850
neighborhood who you're gonna call the

1459
00:59:35,860 --> 00:59:33,080
dog catching it goes no seriously why a

1460
00:59:37,720 --> 00:59:35,870
chaplain yeah good question good night

1461
00:59:39,550 --> 00:59:37,730
don't do that it was a Roman go that's

1462
00:59:42,970 --> 00:59:39,560
like Catholic chaplain you doing

1463
00:59:44,440 --> 00:59:42,980

exorcism Darby surely I mean the Darby

1464

00:59:46,780 --> 00:59:44,450

the burnt all the Catholics a long time

1465

00:59:49,450 --> 00:59:46,790

ago why not call this relational local

1466

00:59:52,930 --> 00:59:49,460

Krishna's Old English well it's a Roman

1467

00:59:54,910 --> 00:59:52,940

ghost so we need to know what it is late

1468

00:59:56,980 --> 00:59:54,920

cry Constantine converted the Roman

1469

00:59:59,230 --> 00:59:56,990

Empire to Christianity have to call it

1470

01:00:02,650 --> 00:59:59,240

well it does say in that article 1920s

1471

01:00:07,300 --> 01:00:02,660

doesn't come or weeks because I wonder

1472

01:00:09,160 --> 01:00:07,310

was that 480 yeah something like that so

1473

01:00:10,750 --> 01:00:09,170

after that then a chaplain but if it's

1474

01:00:12,160 --> 01:00:10,760

from before then then you're gonna have

1475

01:00:13,840 --> 01:00:12,170

to get somebody who knows about but do

1476

01:00:15,550 --> 01:00:13,850

you have to be that specific about guys

1477

01:00:17,140 --> 01:00:15,560

do you have to know what era they came

1478

01:00:18,460 --> 01:00:17,150

from and therefore allows you to make a

1479

01:00:19,900 --> 01:00:18,470

right language doesn't it you're gonna

1480

01:00:21,670 --> 01:00:19,910

cast them out you know you need to know

1481

01:00:25,720 --> 01:00:21,680

so you just went along being English

1482

01:00:29,350 --> 01:00:25,730

done you know ghosts yeah we mean

1483

01:00:32,730 --> 01:00:29,360

embarrassingly I think I mean if the if

1484

01:00:35,020 --> 01:00:32,740

the priest came in and said ghost ghost

1485

01:00:36,940 --> 01:00:35,030

depart this world blah blah blah and the

1486

01:00:38,530 --> 01:00:36,950

ghost said back in Latin Sorry mate

1487

01:00:40,150 --> 01:00:38,540

can't understand a bloody word you're

1488

01:00:41,860 --> 01:00:40,160

saying would be embarrassing Richard

1489

01:00:43,270 --> 01:00:41,870

that's not how it works oh it doesn't

1490

01:00:45,430 --> 01:00:43,280

work like that it doesn't work like that

1491

01:00:46,990 --> 01:00:45,440

you know don't you listen to what John

1492

01:00:48,970 --> 01:00:47,000

Edward says about things like that what

1493

01:00:51,100 --> 01:00:48,980

does he say he says he gets messages

1494

01:00:53,590 --> 01:00:51,110

that he can't always translate but he

1495

01:00:56,230 --> 01:00:53,600

can only understand pictures and images

1496

01:00:58,540 --> 01:00:56,240

and he has been asked directly in the

1497

01:01:00,100 --> 01:00:58,550

past what if the ghost speaks a

1498

01:01:02,920 --> 01:01:00,110

different language and he says but they

1499

01:01:04,990 --> 01:01:02,930

speak to me in images they don't speak a

1500

01:01:06,580 --> 01:01:05,000

language specifically

1501

01:01:08,650 --> 01:01:06,590

oh well that makes it all clear that i

1502

01:01:10,630 --> 01:01:08,660

wish' Lee thinking again this being from

1503

01:01:13,720 --> 01:01:10,640

Darby what if the ghosts answered with a

1504

01:01:15,280 --> 01:01:13,730

Mancunian accent that they could be

1505

01:01:16,570 --> 01:01:15,290

because that's quite hard to understand

1506

01:01:19,960 --> 01:01:16,580

it's a shame guess there's not much work

1507

01:01:21,520 --> 01:01:19,970

for Latin translators out there no not

1508

01:01:23,830 --> 01:01:21,530

not at least not interpreters you know

1509

01:01:25,270 --> 01:01:23,840

that's true but this may be as an itch

1510

01:01:28,930 --> 01:01:25,280

that could be opened up Dave what do you

1511

01:01:31,060 --> 01:01:28,940

think could be good yeah processes to

1512

01:01:34,300 --> 01:01:31,070

can translate ghosts now I would like to

1513

01:01:37,300 --> 01:01:34,310

put out a plea to listeners in the

1514

01:01:40,660 --> 01:01:37,310

sydney region if you know of or are

1515

01:01:43,450 --> 01:01:40,670

plagued by ghosts in your house or your

1516

01:01:45,340 --> 01:01:43,460

local area please contact us we'd love

1517

01:01:48,570 --> 01:01:45,350

to investigate wouldn't we're a job we

1518

01:01:51,310 --> 01:01:48,580

want everyone I wouldn't guide Liza

1519

01:01:53,950 --> 01:01:51,320

multiple languages week four languages

1520

01:01:56,530 --> 01:01:53,960

yeah we could maybe get a German goes

1521

01:01:59,080 --> 01:01:56,540

hey German goes to attach guys don't go

1522

01:02:01,240 --> 01:01:59,090

and she goes Dutch could be because the

1523

01:02:03,520 --> 01:02:01,250

Dutch have been here before cochlear

1524

01:02:07,110 --> 01:02:03,530

that's true yeah yeah well they couldn't

1525

01:02:11,530 --> 01:02:07,120

if you've got a dutch ghost that I want

1526

01:02:14,080 --> 01:02:11,540

I've come I'll bring my my pack my

1527

01:02:16,690 --> 01:02:14,090

backpack but with the Ghostbusters like

1528

01:02:19,660 --> 01:02:16,700

the one the back oh oh yeah well I want

1529

01:02:22,330 --> 01:02:19,670

to do this I wanna do you have the

1530

01:02:25,420 --> 01:02:22,340

overalls as well no i don't but i'll get

1531

01:02:27,910 --> 01:02:25,430

them it is a ghost of it i will so dress

1532

01:02:30,430 --> 01:02:27,920

up and i will go and sell out your ghost

1533

01:02:33,130 --> 01:02:30,440

problem don't german french english

1534

01:02:34,660 --> 01:02:33,140

whatever let's do this oh do you hear

1535

01:02:36,640 --> 01:02:34,670

about the superhero guys I think it'll

1536

01:02:40,720 --> 01:02:36,650

in Melbourne I don't think they're just

1537

01:02:42,640 --> 01:02:40,730

like fairly well-to-do Chuck's you set

1538

01:02:44,170 --> 01:02:42,650

up a league of super heroes and they

1539

01:02:45,760 --> 01:02:44,180

chipped in all their money and put the

1540

01:02:46,840 --> 01:02:45,770

TV out out i think it was in melbourne

1541

01:02:49,000 --> 01:02:46,850

you're gonna have to google as in fact

1542

01:02:50,830 --> 01:02:49,010

check it but they put out TV I've seen

1543

01:02:52,000 --> 01:02:50,840

any problems where your heroes if you've

1544

01:02:54,040 --> 01:02:52,010

got anything you want us to solve you

1545

01:02:55,480 --> 01:02:54,050

know ring this number and when they ring

1546

01:02:57,340 --> 01:02:55,490

up they would put their masks on and get

1547

01:02:59,200 --> 01:02:57,350

out in their car and go and like at cats

1548

01:03:01,030 --> 01:02:59,210

out of trees and actually superheroes

1549

01:03:02,530 --> 01:03:01,040

whatever you wanted them to do that come

1550

01:03:05,050 --> 01:03:02,540

and solve your problems like the goodies

1551
01:03:07,450 --> 01:03:05,060
doesn't think did it in real life how

1552
01:03:09,610 --> 01:03:07,460
also bought that's cool is that still

1553
01:03:10,140 --> 01:03:09,620
happening I'm not sure it was something

1554
01:03:11,730 --> 01:03:10,150
like sue

1555
01:03:13,769 --> 01:03:11,740
hero League of Australia or something if

1556
01:03:16,349 --> 01:03:13,779
you google at your father is Elastigirl

1557
01:03:19,289 --> 01:03:16,359
part of the story sorry is elastic girl

1558
01:03:22,859 --> 01:03:19,299
oh you need from the incredibles yes how

1559
01:03:24,809 --> 01:03:22,869
hot was she I mean when you're talking

1560
01:03:27,839 --> 01:03:24,819
cartoons asti she was almost Jessica

1561
01:03:31,069 --> 01:03:27,849
Rabbit well she was yeah well speaking

1562
01:03:33,750 --> 01:03:31,079
of ghosties can I talk about it a UFO

1563
01:03:36,690 --> 01:03:33,760

what is the wait wait wait wait speaking

1564

01:03:40,200 --> 01:03:36,700

of ghosties can I talk about a UFO and

1565

01:03:43,260 --> 01:03:40,210

you accuse me of bad segways no I that's

1566

01:03:45,359 --> 01:03:43,270

a Segway that connects UFOs and ghosties

1567

01:03:47,309 --> 01:03:45,369

go on well this is actually quite an old

1568

01:03:49,529 --> 01:03:47,319

story but it comes from also from

1569

01:03:51,630 --> 01:03:49,539

England from Lincolnshire and it's a

1570

01:03:55,260 --> 01:03:51,640

story about a wind farm turbine that was

1571

01:03:58,230 --> 01:03:55,270

damaged a couple of weeks ago by a

1572

01:04:02,519 --> 01:03:58,240

mystery aircraft and it was reported

1573

01:04:04,589 --> 01:04:02,529

that the three blues blades one of them

1574

01:04:07,650 --> 01:04:04,599

was bent and one of them actually ended

1575

01:04:09,120 --> 01:04:07,660

up on the ground and people reported

1576

01:04:13,109 --> 01:04:09,130

that at the time they saw a white light

1577

01:04:14,670 --> 01:04:13,119

flashing around very quickly and so UF

1578

01:04:16,109 --> 01:04:14,680

ologist said that they'd received many

1579

01:04:18,299 --> 01:04:16,119

reports of activity and they were

1580

01:04:22,769 --> 01:04:18,309

searching for clues how do you flesh

1581

01:04:24,990 --> 01:04:22,779

around slowly sorry go on do you want

1582

01:04:27,109 --> 01:04:25,000

more information about that a round

1583

01:04:29,849 --> 01:04:27,119

white light that seemed to be hovering

1584

01:04:32,609 --> 01:04:29,859

according to counsel only those in the

1585

01:04:35,730 --> 01:04:32,619

sky dear never really died like hovering

1586

01:04:37,890 --> 01:04:35,740

in the night no because it wouldn't be

1587

01:04:40,500 --> 01:04:37,900

the moon listening for no flashing by

1588

01:04:43,049 --> 01:04:40,510

slowly do not be you don't understand

1589

01:04:45,599 --> 01:04:43,059

let me let me explain the only way to

1590

01:04:47,609 --> 01:04:45,609

explain it is it wasn't a flare like

1591

01:04:49,349 --> 01:04:47,619

light it was just round white with a

1592

01:04:51,569 --> 01:04:49,359

slight red edge to it that seemed to be

1593

01:04:54,599 --> 01:04:51,579

over the wind turbine you have like a

1594

01:05:01,319 --> 01:04:54,609

great watches already you mean like a

1595

01:05:02,640 --> 01:05:01,329

happy face or something i don't know but

1596

01:05:05,490 --> 01:05:02,650

i have to tell you there were numerous

1597

01:05:09,359 --> 01:05:05,500

reports about this alleged white light

1598

01:05:10,859 --> 01:05:09,369

that with red outlines and a gentleman

1599

01:05:13,650 --> 01:05:10,869

by the name of rust callette from the

1600

01:05:17,400 --> 01:05:13,660

Flying Saucer bureau

1601

01:05:21,120 --> 01:05:17,410

this isn't the u.s. made up no I didn't

1602

01:05:23,039 --> 01:05:21,130

make that up this is from BBC News this

1603

01:05:27,390 --> 01:05:23,049

article because somebody had to make up

1604

01:05:30,720 --> 01:05:27,400

that name I think I was hoping it might

1605

01:05:32,520 --> 01:05:30,730

be you you didn't make it up it's here

1606

01:05:34,559 --> 01:05:32,530

it's got pink highlighter on it which

1607

01:05:36,529 --> 01:05:34,569

peeps know you know the BBC didn't make

1608

01:05:40,440 --> 01:05:36,539

it up because they don't have any humans

1609

01:05:44,789 --> 01:05:40,450

so sorry that guy must have been made a

1610

01:05:48,779 --> 01:05:44,799

flying saucer Bureau if it is he's even

1611

01:05:50,760 --> 01:05:48,789

uglier yeah well he said that this is

1612

01:05:52,710 --> 01:05:50,770

the second most reports of activity we

1613

01:05:55,650 --> 01:05:52,720

have ever had I've had over 30 phone

1614

01:05:57,799 --> 01:05:55,660

calls and emails and he says to hit two

1615

01:06:01,500 --> 01:05:57,809

blades any object must have been about

1616

01:06:03,539 --> 01:06:01,510

170 feet long now this is it does he

1617

01:06:05,579 --> 01:06:03,549

know that because of his expertise with

1618

01:06:09,380 --> 01:06:05,589

flying saucers and all the past events

1619

01:06:12,630 --> 01:06:09,390

we're flying sources of it the blades of

1620

01:06:15,329 --> 01:06:12,640

wind turbines I don't think so Iran it's

1621

01:06:17,069 --> 01:06:15,339

not mentioned in this article but I'm

1622

01:06:19,170 --> 01:06:17,079

not sure if that's the case I understand

1623

01:06:22,200 --> 01:06:19,180

how you would have to be a 170 feet long

1624

01:06:24,779 --> 01:06:22,210

to damage two blades on a wind turbine I

1625

01:06:26,160 --> 01:06:24,789

mean they come together in a hub you

1626

01:06:27,930 --> 01:06:26,170

think they're traveling very quickly

1627

01:06:30,750 --> 01:06:27,940

there they're rotating spirit of

1628

01:06:32,670 --> 01:06:30,760

spinning yeah oh yeah yeah well that's

1629

01:06:35,180 --> 01:06:32,680

that's true right but let me offer you a

1630

01:06:38,160 --> 01:06:35,190

month a more mundane explanation

1631

01:06:40,470 --> 01:06:38,170

remember like blaming it on you but it

1632

01:06:41,880 --> 01:06:40,480

wasn't playing song I don't know but let

1633

01:06:44,700 --> 01:06:41,890

me just offer you this and let you can

1634

01:06:47,250 --> 01:06:44,710

decide but this comes from HQ technical

1635

01:06:50,220 --> 01:06:47,260

experts okay medical experts have

1636

01:06:52,440 --> 01:06:50,230

suggested in fact dr. Peter shoe Bell

1637

01:06:54,120 --> 01:06:52,450

from the University of Nottingham is an

1638

01:06:56,829 --> 01:06:54,130

expert in the design and manufacture of

1639

01:06:59,200 --> 01:06:56,839

wind turn turbine blades

1640

01:07:01,599 --> 01:06:59,210

and he said that it would need to be the

1641

01:07:05,079 --> 01:07:01,609

equivalent of a ten-ton load to do that

1642

01:07:07,089 --> 01:07:05,089

kind of damage but if it was rotating or

1643

01:07:09,700 --> 01:07:07,099

hit by a moving object the force could

1644

01:07:12,759 --> 01:07:09,710

be a lot less so his explanation was

1645

01:07:14,200 --> 01:07:12,769

that it's definitely not a bird however

1646

01:07:18,009 --> 01:07:14,210

it could be ice thrown from a

1647

01:07:22,200 --> 01:07:18,019

neighboring turbine that struck it so

1648

01:07:25,089 --> 01:07:22,210

apparently according to dr. Peter cheval

1649

01:07:27,549 --> 01:07:25,099

most turbines have an anti-icing system

1650

01:07:29,349 --> 01:07:27,559

on the blades but sometimes they fail so

1651

01:07:31,539 --> 01:07:29,359

perhaps if it was spinning at enough of

1652

01:07:33,700 --> 01:07:31,549

a rate I just could have flown knows the

1653

01:07:37,269 --> 01:07:33,710

other one who I'll get the other turbine

1654

01:07:40,059 --> 01:07:37,279

possibly yeah yeah however the Ministry

1655

01:07:41,499 --> 01:07:40,069

of Defence in the UK and we've spoken

1656

01:07:43,329 --> 01:07:41,509

about them before actually because they

1657

01:07:46,170 --> 01:07:43,339

released their UFO files a few months

1658

01:07:49,390 --> 01:07:46,180

ago remember which was very interesting

1659

01:07:52,299 --> 01:07:49,400

they they haven't established whether

1660

01:07:54,609 --> 01:07:52,309

there was any sort of hostile or

1661

01:07:56,610 --> 01:07:54,619

unauthorized military activity in the

1662

01:07:59,820 --> 01:07:56,620

area at the time

1663

01:08:05,900 --> 01:07:59,830

so it seems like the jury's out on

1664

01:08:09,980 --> 01:08:05,910

whether it was a un phone probably

1665

01:08:13,110 --> 01:08:09,990

wasn't gonna starve to death being up

1666

01:08:14,910 --> 01:08:13,120

not coming back anytime soon going to be

1667

01:08:18,360 --> 01:08:14,920

an awful lot more UFOs if we just stop

1668

01:08:19,920 --> 01:08:18,370

identifying flying offense Omega if we

1669

01:08:21,300 --> 01:08:19,930

just stop identifying them be the be

1670

01:08:24,900 --> 01:08:21,310

UFOs everywhere and everybody would be

1671

01:08:28,440 --> 01:08:24,910

mmm that's a good point we should stop

1672

01:08:31,320 --> 01:08:28,450

identifying them yeah I by was up he

1673

01:08:33,840 --> 01:08:31,330

ready for the segue yes I saw a lot of

1674

01:08:37,110 --> 01:08:33,850

happy people today seat happy happy oh

1675

01:08:40,110 --> 01:08:37,120

yeah oh did you save the hapless would

1676

01:08:43,350 --> 01:08:40,120

be happier than me know are you know

1677

01:08:45,150 --> 01:08:43,360

very happy I went to the Macquarie

1678

01:08:47,220 --> 01:08:45,160

University as listeners would have heard

1679

01:08:49,410 --> 01:08:47,230

earlier in the show my brief report with

1680

01:08:51,840 --> 01:08:49,420

them doing the president of the

1681

01:08:53,970 --> 01:08:51,850

Macquarie skeptics I spend a day there

1682

01:08:56,880 --> 01:08:53,980

they're open week at their store there

1683

01:09:00,080 --> 01:08:56,890

the University um and the response was

1684

01:09:03,380 --> 01:09:00,090

just fantastic it was really heartening

1685

01:09:06,060 --> 01:09:03,390

lots of young students coming along

1686

01:09:09,150 --> 01:09:06,070

fascinated by things like spoon bending

1687

01:09:10,860 --> 01:09:09,160

water divining and it's the old stuff

1688

01:09:12,870 --> 01:09:10,870

that really got them now these these are

1689

01:09:17,220 --> 01:09:12,880

kids in there early their late teens

1690

01:09:21,000 --> 01:09:17,230

early 20s um and to them hoardings and

1691

01:09:23,970 --> 01:09:21,010

ghosties and UFOs and an old ESP that's

1692

01:09:26,520 --> 01:09:23,980

all really interesting stuff and I keep

1693

01:09:28,080 --> 01:09:26,530

trying to remind some skeptics out there

1694

01:09:29,280 --> 01:09:28,090

who said I'll we've already that's all

1695

01:09:31,320 --> 01:09:29,290

been debunked and we don't care about

1696

01:09:33,740 --> 01:09:31,330

that anymore anymore we need to move on

1697

01:09:36,480 --> 01:09:33,750

oh one of the points is no no there's

1698

01:09:38,700 --> 01:09:36,490

generations keep coming up and that's

1699

01:09:40,470 --> 01:09:38,710

what they are interested in so there's

1700

01:09:42,240 --> 01:09:40,480

that there's something there we need to

1701

01:09:44,160 --> 01:09:42,250

address i think what do you think yeah

1702

01:09:45,690 --> 01:09:44,170

like Loch mess for example a lot miss my

1703

01:09:49,200 --> 01:09:45,700

sister Bigfoot's been around for how

1704

01:09:51,000 --> 01:09:49,210

long forever it's true but the young

1705

01:09:52,440 --> 01:09:51,010

generations coming up they learn about

1706

01:09:54,120 --> 01:09:52,450

it they're interested in it they don't

1707

01:09:56,720 --> 01:09:54,130

know it's all being demand no that's

1708

01:09:59,520 --> 01:09:56,730

right and the Bermuda Triangle still a

1709

01:10:00,900 --> 01:09:59,530

an area of people being fascinated by it

1710

01:10:02,400 --> 01:10:00,910

and that's been debunked if you don't

1711

01:10:04,440 --> 01:10:02,410

know why it's been to bunch and how

1712

01:10:06,300 --> 01:10:04,450

you're still interested in that and i

1713

01:10:09,840 --> 01:10:06,310

have to say Richard spoon bending is

1714

01:10:11,970 --> 01:10:09,850

still spoon bending spoon bending is

1715

01:10:13,920 --> 01:10:11,980

still a great thing even though even

1716

01:10:15,660 --> 01:10:13,930

when you know how it's done it still

1717

01:10:18,360 --> 01:10:15,670

looks great when people it's good fun we

1718

01:10:20,940 --> 01:10:18,370

were bending I don't know I must have

1719

01:10:22,860 --> 01:10:20,950

been about 50 spoons today well again

1720

01:10:24,210 --> 01:10:22,870

and again and again because the the

1721

01:10:26,460 --> 01:10:24,220

young students have they've never seen

1722

01:10:28,110 --> 01:10:26,470

her before it's a great magic trick in

1723

01:10:30,630 --> 01:10:28,120

there completely freaked out it it's

1724

01:10:33,120 --> 01:10:30,640

it's a great Thank You mr. Geller thank

1725

01:10:35,280 --> 01:10:33,130

you thank you so much yes I'm sure mr.

1726

01:10:36,330 --> 01:10:35,290

Geller listen to the podcast I think

1727

01:10:38,490 --> 01:10:36,340

this is having the sort of this

1728

01:10:40,260 --> 01:10:38,500

fascinating yeah I think part of what

1729

01:10:42,150 --> 01:10:40,270

attracts not maybe not all of us but

1730

01:10:44,010 --> 01:10:42,160

some of us to like the kind of the

1731

01:10:47,060 --> 01:10:44,020

skeptic movement thing is that where it

1732

01:10:49,560 --> 01:10:47,070

is equally interested in in ideas like

1733

01:10:53,100 --> 01:10:49,570

Bigfoot and the Loch Ness monster and

1734

01:10:54,660 --> 01:10:53,110

the UFOs and we just cover it from a you

1735

01:10:56,430 --> 01:10:54,670

know an evidence-based angle but these

1736

01:10:58,470 --> 01:10:56,440

stories are just as much part of our

1737

01:11:00,330 --> 01:10:58,480

culture as they are they the true

1738

01:11:01,620 --> 01:11:00,340

believers culture that's a very good way

1739

01:11:02,470 --> 01:11:01,630

of looking at it they're part of our

1740

01:11:04,900 --> 01:11:02,480

culture

1741

01:11:07,090 --> 01:11:04,910

the other thing is that these things

1742

01:11:10,690 --> 01:11:07,100

seem to move with pop culture and that

1743

01:11:13,870 --> 01:11:10,700

like you know when sci-fi was all about

1744

01:11:15,550 --> 01:11:13,880

the Space Age and the space race you

1745

01:11:19,090 --> 01:11:15,560

know needed before was in the 50s and

1746

01:11:20,530 --> 01:11:19,100

the 60s there was loads of talk about

1747

01:11:25,170 --> 01:11:20,540

aliens and stuff and nowadays we've got

1748

01:11:27,250 --> 01:11:25,180

more things that kind of talk about

1749

01:11:29,040 --> 01:11:27,260

quantum physics and that's what you

1750

01:11:31,600 --> 01:11:29,050

people like Deepak Chopra taking a

1751

01:11:34,690 --> 01:11:31,610

quantum theory but you know there's this

1752

01:11:37,390 --> 01:11:34,700

is it's not unique we see around all

1753

01:11:41,590 --> 01:11:37,400

these things that are pits in UFOs and

1754

01:11:44,680 --> 01:11:41,600

the alien the abducting aliens and and I

1755

01:11:46,690 --> 01:11:44,690

mentioned it in my autism second a few

1756

01:11:49,150 --> 01:11:46,700

few weeks two weeks ago yeah the central

1757

01:11:50,920 --> 01:11:49,160

regions that are culturally related and

1758

01:11:53,530 --> 01:11:50,930

you find that as the culture advances

1759

01:11:55,450 --> 01:11:53,540

these things suddenly appear you see it

1760

01:11:57,760 --> 01:11:55,460

around the vaccine so have the reasons

1761

01:12:00,970 --> 01:11:57,770

for objecting to vaccines differ from

1762

01:12:02,770 --> 01:12:00,980

country to country hmm sure and these

1763

01:12:04,930 --> 01:12:02,780

are it's quite common when when you

1764

01:12:07,510 --> 01:12:04,940

don't think critically just you're just

1765

01:12:10,780 --> 01:12:07,520

affected by your environment you make

1766

01:12:11,609 --> 01:12:10,790

your wolf it with whatever you know so

1767

01:12:15,449 --> 01:12:11,619

it's

1768

01:12:16,679 --> 01:12:15,459

fundie site I'll we're back onto the

1769

01:12:17,819 --> 01:12:16,689

vision again I wasn't look if you're

1770

01:12:19,049 --> 01:12:17,829

really into the religion stuff come and

1771

01:12:21,000 --> 01:12:19,059

listen to me I'll catechol masters we

1772

01:12:22,080 --> 01:12:21,010

talk about this all the time breeze but

1773

01:12:23,909 --> 01:12:22,090

there was a car the other day saying

1774

01:12:25,259 --> 01:12:23,919

gays do off the rights to get married a

1775

01:12:31,319 --> 01:12:25,269

gay man can carry it and marry a gay

1776

01:12:36,179 --> 01:12:31,329

woman anytime you want to see me anymore

1777

01:12:38,239 --> 01:12:36,189

we work I am NOT going to provide any

1778

01:12:40,409 --> 01:12:38,249

links actually on the young Australians

1779

01:12:42,449 --> 01:12:40,419

Australian skeptics website they have a

1780

01:12:44,909 --> 01:12:42,459

link or they have it embedded right the

1781

01:12:49,139 --> 01:12:44,919

younger strange Genghis many skeptics of

1782

01:12:51,810 --> 01:12:49,149

the video of Fred Phelps fred phelps

1783

01:12:54,509 --> 01:12:51,820

went on a tirade against Australia as he

1784

01:12:56,819 --> 01:12:54,519

has easiest one that's nice about that

1785

01:12:58,500 --> 01:12:56,829

video it's a very troubling video if you

1786

01:13:00,839 --> 01:12:58,510

don't know who fred phelps is though you

1787

01:13:04,139 --> 01:13:00,849

don't realize that he's regularly forget

1788

01:13:05,879 --> 01:13:04,149

to take his medication but if you but if

1789

01:13:07,919 --> 01:13:05,889

you don't know it's very troubling

1790

01:13:09,330 --> 01:13:07,929

because he talks about how wonderful it

1791

01:13:12,239 --> 01:13:09,340

is that australians have been burning

1792

01:13:15,029 --> 01:13:12,249

and because of you got the stuff far in

1793

01:13:18,319 --> 01:13:15,039

this podcast know that i've been doing a

1794

01:13:22,080 --> 01:13:18,329

bit of work on the fires and go yes and

1795

01:13:23,729 --> 01:13:22,090

people you know hurt and flying in

1796

01:13:26,699 --> 01:13:23,739

hospitals and grieving the dead and this

1797

01:13:29,009 --> 01:13:26,709

guy goes on this tirade and the Westboro

1798

01:13:33,179 --> 01:13:29,019

Baptist Church were going to pick it the

1799

01:13:35,100 --> 01:13:33,189

memorial health roughly Saturday young

1800

01:13:38,009 --> 01:13:35,110

skeptics went along the name and they

1801
01:13:41,729 --> 01:13:38,019
try to locate them and unfortunately for

1802
01:13:44,339 --> 01:13:41,739
the Westboro Baptist Church people they

1803
01:13:48,189 --> 01:13:44,349
didn't they were not found I I have an

1804
01:13:51,569 --> 01:13:48,199
idea that or have a this

1805
01:13:54,129 --> 01:13:51,579
thought that in Australia they would

1806
01:13:57,449 --> 01:13:54,139
people would not be as tolerant as they

1807
01:13:59,649 --> 01:13:57,459
are in America of this kind of religious

1808
01:14:01,770 --> 01:13:59,659
madness however if you want to see the

1809
01:14:03,640 --> 01:14:01,780
press release of what they said about

1810
01:14:06,549 --> 01:14:03,650
picketing the national day of mourning

1811
01:14:08,020 --> 01:14:06,559
you had a rat bags calm and you can see

1812
01:14:10,239 --> 01:14:08,030
the floor press release it's really

1813
01:14:12,640 --> 01:14:10,249

offensive / about is getting publicity

1814

01:14:14,169 --> 01:14:12,650

for that course it didn't matter whether

1815

01:14:16,209 --> 01:14:14,179

they actually intended now either be

1816

01:14:18,609 --> 01:14:16,219

arena they point is by making this press

1817

01:14:19,870 --> 01:14:18,619

release they got onto the news in again

1818

01:14:23,379 --> 01:14:19,880

they're doing for the publicity that's a

1819

01:14:24,910 --> 01:14:23,389

good point so cut this out of the

1820

01:14:26,529 --> 01:14:24,920

podcast Richie because then what happens

1821

01:14:28,089 --> 01:14:26,539

to their not about getting converse so

1822

01:14:29,709 --> 01:14:28,099

you know they know very well that we're

1823

01:14:32,529 --> 01:14:29,719

not gonna go to the Westboro Baptists of

1824

01:14:36,790 --> 01:14:32,539

the sales outrageous stuff and function

1825

01:14:39,489 --> 01:14:36,800

notice they are nothing I mean yeah

1826
01:14:41,410 --> 01:14:39,499
matter yeah metaphorically speaking but

1827
01:14:43,270 --> 01:14:41,420
good on the young Australian skeptics

1828
01:14:46,109 --> 01:14:43,280
having a girl and now they've got a very

1829
01:14:47,890 --> 01:14:46,119
good podcast I love the young Australian

1830
01:14:50,350 --> 01:14:47,900
absolutely and they listen they listen

1831
01:14:52,149 --> 01:14:50,360
to this and the colossal I mean we're

1832
01:14:55,330 --> 01:14:52,159
all the same we're all on the same we're

1833
01:14:58,120 --> 01:14:55,340
all in the same boat row direction hello

1834
01:15:00,189 --> 01:14:58,130
hello pseudo-scientists hello hello

1835
01:15:06,250 --> 01:15:00,199
pseudo-scientists hello Jack can I ask

1836
01:15:07,540 --> 01:15:06,260
Elliot yeah maybe maybe if I ask him

1837
01:15:13,640 --> 01:15:07,550
really nice little put Dave a happy

1838
01:15:17,090 --> 01:15:13,650

singer calm it had to happen

1839

01:15:18,110 --> 01:15:17,100

all right well with that friendly note

1840

01:15:19,490 --> 01:15:18,120

to our good friends of the young

1841

01:15:20,960 --> 01:15:19,500

Australian skeptics I'd like to think

1842

01:15:23,660 --> 01:15:20,970

they've they're happy singer of course

1843

01:15:25,790 --> 01:15:23,670

thank you for having me any time and it

1844

01:15:27,880 --> 01:15:25,800

runs again thank you thanks ritter and

1845

01:15:30,710 --> 01:15:27,890

thank you for grain of salt good as ever

1846

01:15:32,360 --> 01:15:30,720

and as the door shuts and the corner

1847

01:15:34,940 --> 01:15:32,370

thank you rachel done what thank you and

1848

01:15:37,460 --> 01:15:34,950

thank you for dr. AG reports thank you

1849

01:16:00,570 --> 01:15:37,470

thank you and until next time this has

1850

01:16:05,590 --> 01:16:03,580

Richard wake up wake up her wake up it's

1851

01:16:09,760 --> 01:16:05,600

the end of the show oh sorry it was so

1852

01:16:11,380 --> 01:16:09,770

so intense I fell asleep I knobs that

1853

01:16:13,570 --> 01:16:11,390

we've been working your too hard which

1854

01:16:15,100 --> 01:16:13,580

is you're wearing too many hats you're a

1855

01:16:17,740 --> 01:16:15,110

jack of too many trades and a master of

1856

01:16:18,970 --> 01:16:17,750

all of them it's just too much so you're

1857

01:16:21,280 --> 01:16:18,980

allowed to have a power nap every day

1858

01:16:23,140 --> 01:16:21,290

thanks I do appreciate appreciate that a

1859

01:16:24,760 --> 01:16:23,150

power nap recharge the batteries I'm

1860

01:16:26,800 --> 01:16:24,770

ready for the next show in one week

1861

01:16:29,110 --> 01:16:26,810

which will be a special show yes well

1862

01:16:31,150 --> 01:16:29,120

any any news on next weekend oh yeah I

1863

01:16:33,400 --> 01:16:31,160

black can't say it such such big news

1864

01:16:34,900 --> 01:16:33,410

out our special guest little bit of a

1865

01:16:36,580 --> 01:16:34,910

secret at the moment they said not to

1866

01:16:38,740 --> 01:16:36,590

mention it yet in other words i'm still

1867

01:16:40,689 --> 01:16:38,750

working that out all right yeah I don't

1868

01:16:42,490 --> 01:16:40,699

tell listeners that I think you really

1869

01:16:44,350 --> 01:16:42,500

got something lined up no no it's gonna

1870

01:16:46,600 --> 01:16:44,360

be good as usual we always get good

1871

01:16:48,070 --> 01:16:46,610

gifts here on the zona do and now thanks

1872

01:16:50,050 --> 01:16:48,080

listeners for for hanging in there

1873

01:16:51,520 --> 01:16:50,060

because so that the show is going really

1874

01:16:53,860 --> 01:16:51,530

well we're getting lots of good feedback

1875

01:16:55,660 --> 01:16:53,870

and we're really enjoying doing it and

1876

01:16:59,050 --> 01:16:55,670

thanks for leaving comments on our blog

1877

01:17:02,110 --> 01:16:59,060

and our comments page all at ww skeptics

1878

01:17:03,550 --> 01:17:02,120

own TV yes that that too and and don't

1879

01:17:05,260 --> 01:17:03,560

forget also there's a little paypal

1880

01:17:07,720 --> 01:17:05,270

donation button there because of course

1881

01:17:09,280 --> 01:17:07,730

we're all volunteers and and there are

1882

01:17:10,810 --> 01:17:09,290

expenses in running a show like this so

1883

01:17:13,120 --> 01:17:10,820

if you do enjoy the show and you'd like

1884

01:17:14,979 --> 01:17:13,130

to see so keep doing what we do and you

1885

01:17:16,630 --> 01:17:14,989

know using these high-tech gadgets that

1886

01:17:18,250 --> 01:17:16,640

we use it'd be nice to just get a little

1887

01:17:20,340 --> 01:17:18,260

bit of a subsidy from you so you go on

1888

01:17:23,470 --> 01:17:20,350

the paypal it really does help because

1889

01:17:25,060 --> 01:17:23,480

owing to the generosity of our listeners

1890

01:17:26,860 --> 01:17:25,070

I've been able to get three of our

1891

01:17:29,860 --> 01:17:26,870

reporters complete digital recording

1892

01:17:31,780 --> 01:17:29,870

kits oh that is also so it's really good

1893

01:17:33,610 --> 01:17:31,790

thank you everybody yes hence the hence

1894

01:17:35,200 --> 01:17:33,620

the show going on words it upwards

1895

01:17:36,520 --> 01:17:35,210

towards annapolis all right we'll look

1896

01:17:39,400 --> 01:17:36,530

however great when we'll see you next

1897

01:17:42,750 --> 01:17:39,410

week a Richard yep alrighty buzzer thank

1898

01:17:48,940 --> 01:17:45,160

you've been listening to the skeptic

1899

01:17:52,150 --> 01:17:48,950

zone visit our website at www skipped

1900

01:17:56,180 --> 01:17:52,160

exhume TV for comments contacts and

