

**SKEPTIC  
ZONE**



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

The  
Podcast  
from  
Australia  
for  
Science  
and  
Reason

[www.skepticzone.tv](http://www.skepticzone.tv)

1  
00:00:38,069 --> 00:00:26,460  
now I'm 23 that's a very nasty case of

2  
00:00:40,740 --> 00:00:38,079  
hiccups welcome to the skeptic zone the

3  
00:00:49,800 --> 00:00:40,750  
podcast from Australia for science and

4  
00:00:55,470 --> 00:00:52,630  
hello and welcome to the skeptic zone

5  
00:00:58,990 --> 00:00:55,480  
show number 37 for the third of July

6  
00:01:01,510 --> 00:00:59,000  
2009 this is Carly Sturgis filling in

7  
00:01:03,790 --> 00:01:01,520  
for Richard and Stefan unfortunately

8  
00:01:06,880 --> 00:01:03,800  
Richard seems to have the skeptic flu

9  
00:01:08,950 --> 00:01:06,890  
poor dear anyway he'll still be joining

10  
00:01:11,320 --> 00:01:08,960  
us later in the show for the think tank

11  
00:01:13,810 --> 00:01:11,330  
so send your best wishes to Richard

12  
00:01:16,930 --> 00:01:13,820  
firstly we have dr. Rachel Dunlop

13  
00:01:18,850 --> 00:01:16,940

talking to Simon Singh himself he'll be

14

00:01:21,250 --> 00:01:18,860

coming to Australia and touring in

15

00:01:23,080 --> 00:01:21,260

Adelaide and now Sydney where I know you

16

00:01:25,180 --> 00:01:23,090

can get tickets from the University of

17

00:01:27,760 --> 00:01:25,190

Sydney website you can hear all about

18

00:01:30,400 --> 00:01:27,770

his continuing legal battle with british

19

00:01:33,160 --> 00:01:30,410

chiropractors then we have my review of

20

00:01:35,530 --> 00:01:33,170

the new book from richard wiseman 59

21

00:01:37,780 --> 00:01:35,540

seconds think a little change a lot

22

00:01:40,840 --> 00:01:37,790

which is only just being released out in

23

00:01:43,719 --> 00:01:40,850

the UK that will be followed by a grain

24

00:01:46,330 --> 00:01:43,729

of salt with Iran segev now let's get

25

00:01:57,430 --> 00:01:46,340

into the zone but first let's hear about

26  
00:02:02,930 --> 00:01:59,810  
the Australian city Perth with a

27  
00:02:04,970 --> 00:02:02,940  
population of around 1.5 million people

28  
00:02:07,160 --> 00:02:04,980  
has something in common with many other

29  
00:02:09,169 --> 00:02:07,170  
cities there's crimes to be solved

30  
00:02:11,930 --> 00:02:09,179  
people searching for missing loved ones

31  
00:02:14,720 --> 00:02:11,940  
and cases of psychics claiming that

32  
00:02:16,730 --> 00:02:14,730  
they're the answer now it's rather the

33  
00:02:19,460 --> 00:02:16,740  
media do a story that's critical of

34  
00:02:21,350 --> 00:02:19,470  
so-called psychic investigators and I'm

35  
00:02:23,960 --> 00:02:21,360  
personally of the opinion that most are

36  
00:02:25,550 --> 00:02:23,970  
genuinely deluded or confused into

37  
00:02:28,160 --> 00:02:25,560  
thinking that they have the ability to

38  
00:02:31,730 --> 00:02:28,170

solve crimes rather than just evil

39

00:02:33,100 --> 00:02:31,740

people on june the 27th the west

40

00:02:36,530 --> 00:02:33,110

australian sunday times newspaper

41

00:02:38,900 --> 00:02:36,540

reported that WA detectives resorted to

42

00:02:40,610 --> 00:02:38,910

using a psychic medium who claims to

43

00:02:43,010 --> 00:02:40,620

speak to the dead in the hunt for

44

00:02:44,690 --> 00:02:43,020

Corinne Rainey's killer according to a

45

00:02:47,420 --> 00:02:44,700

new book that will be published next

46

00:02:50,030 --> 00:02:47,430

month now the case revolves around

47

00:02:52,340 --> 00:02:50,040

Corinne rainy who disappeared after

48

00:02:56,060 --> 00:02:52,350

dance class at Bentley community center

49

00:02:57,949 --> 00:02:56,070

on August the 7th 2007 her body was

50

00:03:01,580 --> 00:02:57,959

discovered a week later in a bush grave

51  
00:03:03,560 --> 00:03:01,590  
a king's park in central Perth Debbie

52  
00:03:05,750 --> 00:03:03,570  
Maloney told The Sunday Times that the

53  
00:03:08,570 --> 00:03:05,760  
police gave her mrs. Rainey's diary as

54  
00:03:11,030 --> 00:03:08,580  
an energy source so she can perform a

55  
00:03:13,100 --> 00:03:11,040  
technique known as psychometry where

56  
00:03:16,430 --> 00:03:13,110  
people communicate with the dead and see

57  
00:03:19,250 --> 00:03:16,440  
past present and future events there is

58  
00:03:22,160 --> 00:03:19,260  
a statement by the police yesterday WA

59  
00:03:24,310 --> 00:03:22,170  
Police spokesman Neil stanberry declined

60  
00:03:26,630 --> 00:03:24,320  
to respond to maloneys assertions or

61  
00:03:28,820 --> 00:03:26,640  
categorically deny that detectives

62  
00:03:30,740 --> 00:03:28,830  
involved in operation dargan the

63  
00:03:34,460 --> 00:03:30,750

investigation into mrs. Rainey's murder

64

00:03:36,800 --> 00:03:34,470

had used the services of Maloney instead

65

00:03:39,259 --> 00:03:36,810

he issued a statement saying WA Police

66

00:03:41,930 --> 00:03:39,269

does not use psychics or seek their

67

00:03:43,340 --> 00:03:41,940

services however for any person contacts

68

00:03:45,740 --> 00:03:43,350

police with what they believe is

69

00:03:48,130 --> 00:03:45,750

important information about a crime we

70

00:03:50,479 --> 00:03:48,140

will consider what they have to provide

71

00:03:52,640 --> 00:03:50,489

he said that police did not publicly

72

00:03:55,850 --> 00:03:52,650

comment about each person they spoke to

73

00:03:57,710 --> 00:03:55,860

as a part of their investigations now

74

00:03:59,750 --> 00:03:57,720

whilst the Sunday Times newspaper was

75

00:04:02,180 --> 00:03:59,760

allowing Maloney a vehicle to tout her

76

00:04:04,400 --> 00:04:02,190

psychic detective claims the daily

77

00:04:06,800 --> 00:04:04,410

newspaper The West Australian had a

78

00:04:07,970 --> 00:04:06,810

different story to put forward some of

79

00:04:09,500 --> 00:04:07,980

the points that they raised in the

80

00:04:12,080 --> 00:04:09,510

following article were

81

00:04:15,110 --> 00:04:12,090

reported upon last year particularly the

82

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

experiences of parent Don Spears was the

83

00:04:18,770 --> 00:04:17,160

father of one of the missing women who

84

00:04:21,770 --> 00:04:18,780

is suspected to be a victim of the

85

00:04:25,370 --> 00:04:21,780

clermont serial killer and unsolved in a

86

00:04:27,730 --> 00:04:25,380

city case since the mid-1990s the West

87

00:04:30,500 --> 00:04:27,740

Australian reported on 30th of june with

88

00:04:33,409 --> 00:04:30,510

we won't listen to psychics Rainey

89

00:04:35,270 --> 00:04:33,419

sister the sister murdered woman Corinne

90

00:04:36,860 --> 00:04:35,280

Rainey has criticized a psychic who

91

00:04:39,020 --> 00:04:36,870

claims to have information upon her

92

00:04:41,900 --> 00:04:39,030

death saying that she's trying to profit

93

00:04:43,730 --> 00:04:41,910

from the family's grief Sharon cotton

94

00:04:45,830 --> 00:04:43,740

Howe said that yesterday her family had

95

00:04:47,990 --> 00:04:45,840

not been contacted by psychic Debbie

96

00:04:50,450 --> 00:04:48,000

Maloney and had no interest in speaking

97

00:04:53,600 --> 00:04:50,460

to her about her alleged insight into

98

00:04:55,250 --> 00:04:53,610

the murder of mrs. Rainey mrs. cotton ho

99

00:04:57,469 --> 00:04:55,260

said her family had been contacted by

100

00:04:59,750 --> 00:04:57,479

several psychics since mrs. Rainey's

101

00:05:02,300 --> 00:04:59,760

death but had declined their office of

102

00:05:03,950 --> 00:05:02,310

help she said she had read the extra for

103

00:05:06,290 --> 00:05:03,960

Maloney's new book which addressed the

104

00:05:09,200 --> 00:05:06,300

rainy case but it had offered no new

105

00:05:11,180 --> 00:05:09,210

information mrs. cotton ho was upset

106

00:05:13,640 --> 00:05:11,190

that Moloney had used her sister's

107

00:05:16,010 --> 00:05:13,650

murder as a means of publicizing a book

108

00:05:18,020 --> 00:05:16,020

everything she has said has been public

109

00:05:20,600 --> 00:05:18,030

knowledge for the last two years mrs.

110

00:05:22,550 --> 00:05:20,610

cotton ho said we are not bothering with

111

00:05:23,870 --> 00:05:22,560

psychics unless someone comes up with

112

00:05:27,020 --> 00:05:23,880

something that hasn't been made public

113

00:05:29,270 --> 00:05:27,030

it's really not worth listening to the

114

00:05:31,640 --> 00:05:29,280

father of clermont serial killer victim

115

00:05:33,379 --> 00:05:31,650

Sarah Spears also warned victims

116

00:05:35,629 --> 00:05:33,389

families not to listen to psychics

117

00:05:38,360 --> 00:05:35,639

saying yesterday they fed off misery and

118

00:05:40,640 --> 00:05:38,370

drove him to a mental breakdown Don

119

00:05:42,830 --> 00:05:40,650

Spears said up to 400 psychics and

120

00:05:46,570 --> 00:05:42,840

clairvoyants her contact him since Sarah

121

00:05:49,339 --> 00:05:46,580

disappeared on January the 27th 1996

122

00:05:50,839 --> 00:05:49,349

they'd offered false information but he

123

00:05:52,670 --> 00:05:50,849

had been so desperate to find his

124

00:05:54,200 --> 00:05:52,680

daughter that he had listened to them

125

00:05:56,719 --> 00:05:54,210

and offered had followed their

126

00:05:58,310 --> 00:05:56,729

instructions the false hope that they

127

00:06:01,250 --> 00:05:58,320

had created led him to have a breakdown

128

00:06:03,439 --> 00:06:01,260

late in 1996 when he found himself

129

00:06:06,710 --> 00:06:03,449

sitting in an armchair at home with in

130

00:06:08,960 --> 00:06:06,720

chunks of hair from his scalp mr. sphere

131

00:06:10,939 --> 00:06:08,970

said psychics like Moloney had never

132

00:06:12,950 --> 00:06:10,949

proved to be effective and just deepened

133

00:06:15,409 --> 00:06:12,960

the anguish experienced by the families

134

00:06:17,959 --> 00:06:15,419

of victims in conclusion the best

135

00:06:19,940 --> 00:06:17,969

background I can recommend is a book by

136

00:06:23,480 --> 00:06:19,950

Debbie Marshall on the Claremont serial

137

00:06:26,210 --> 00:06:23,490

killer case called The Devil's garden

138

00:06:28,159 --> 00:06:26,220

chapter 28 it reads as follows a long

139

00:06:29,420 --> 00:06:28,169

time skeptic Bret Christian who grew up

140

00:06:31,010 --> 00:06:29,430

in Claremont believes that the

141

00:06:32,749 --> 00:06:31,020

clairvoyants have proven to be one of

142

00:06:35,120 --> 00:06:32,759

the biggest problems in the macro case

143

00:06:37,100 --> 00:06:35,130

either while meaning or malicious they

144

00:06:39,559 --> 00:06:37,110

add he says nothing more than further

145

00:06:41,540 --> 00:06:39,569

heartache to those already in grief the

146

00:06:43,700 --> 00:06:41,550

saddest thing about their visions then

147

00:06:45,740 --> 00:06:43,710

not only usually wrong but they are

148

00:06:48,170 --> 00:06:45,750

foisted on people when they are their

149

00:06:50,089 --> 00:06:48,180

most vulnerable we at the skeptic zone

150

00:06:52,279 --> 00:06:50,099

will continue to monitor the claims of

151  
00:07:11,300 --> 00:06:52,289  
Debbie Maloney especially what she has

152  
00:07:16,679 --> 00:07:14,100  
so now joining us on the phone line from

153  
00:07:19,409 --> 00:07:16,689  
London is Simon Singh hello Simon and

154  
00:07:21,600 --> 00:07:19,419  
welcome to the skeptic zone it's my

155  
00:07:23,279 --> 00:07:21,610  
pleasure my pleasure every night to talk

156  
00:07:25,610 --> 00:07:23,289  
to you at last because we saw responded

157  
00:07:27,929 --> 00:07:25,620  
in the past every melons and so on and

158  
00:07:30,480 --> 00:07:27,939  
and then looking for ticket to get into

159  
00:07:31,679 --> 00:07:30,490  
Australia and making in person yes well

160  
00:07:33,240 --> 00:07:31,689  
that's part of the reason why we're

161  
00:07:35,459 --> 00:07:33,250  
talking to you today obviously is to

162  
00:07:37,260 --> 00:07:35,469  
promote your Australian tour you're

163  
00:07:39,240 --> 00:07:37,270

going to be in Adelaide for the Adelaide

164

00:07:40,920 --> 00:07:39,250

Festival of ideas and we're all course

165

00:07:43,290 --> 00:07:40,930

also here to talk to you about the

166

00:07:44,700 --> 00:07:43,300

current libel case being brought against

167

00:07:47,550 --> 00:07:44,710

you by the British Chiropractic

168

00:07:49,260 --> 00:07:47,560

Association I'll get on to that in a

169

00:07:51,869 --> 00:07:49,270

moment Simon but i just wanted to start

170

00:07:53,820 --> 00:07:51,879

off by giving our listeners and aren't

171

00:07:56,209 --> 00:07:53,830

that familiar with your work a little

172

00:07:58,860 --> 00:07:56,219

bit of detail about your career to date

173

00:08:01,350 --> 00:07:58,870

you have a PhD in particle physics from

174

00:08:03,089 --> 00:08:01,360

cambridge university and you're now a

175

00:08:05,129 --> 00:08:03,099

very successful science writer and

176

00:08:07,080 --> 00:08:05,139

communicator having produced

177

00:08:10,350 --> 00:08:07,090

documentaries for the BBC and written

178

00:08:12,480 --> 00:08:10,360

four books but can you give us some idea

179

00:08:16,529 --> 00:08:12,490

about how you did your move from physics

180

00:08:18,390 --> 00:08:16,539

to science communication um yes I think

181

00:08:20,369 --> 00:08:18,400

I always wanted to be a physicist so I

182

00:08:22,439 --> 00:08:20,379

was you know thought there was nothing

183

00:08:25,709 --> 00:08:22,449

more amazing than being able to discover

184

00:08:27,570 --> 00:08:25,719

the secrets of the universe and so I did

185

00:08:32,189 --> 00:08:27,580

a degree in physics i did a PhD in

186

00:08:35,670 --> 00:08:32,199

physics I were to CERN on my PhD looking

187

00:08:38,310 --> 00:08:35,680

for the top quark and then I got to a

188

00:08:40,290 --> 00:08:38,320

point where I could just see that the

189

00:08:44,189 --> 00:08:40,300

people around me with that much quicker

190

00:08:46,500 --> 00:08:44,199

and smarter and sharper than me and I

191

00:08:48,210 --> 00:08:46,510

thought you know if people are going to

192

00:08:53,189 --> 00:08:48,220

make great discoveries it's going to be

193

00:08:57,569 --> 00:08:53,199

then and probably not me and so in my

194

00:09:00,090 --> 00:08:57,579

mid-20s I decided to move out of physics

195

00:09:03,240 --> 00:09:00,100

research and and thought well if I can't

196

00:09:05,040 --> 00:09:03,250

do physics research and maybe the next

197

00:09:07,530 --> 00:09:05,050

best thing is to be able to write about

198

00:09:10,350 --> 00:09:07,540

it and talk about it and so that's what

199

00:09:12,360 --> 00:09:10,360

I made the move into first into TV I

200

00:09:14,910 --> 00:09:12,370

worked on a TV series called tomorrow's

201  
00:09:17,200 --> 00:09:14,920  
world which i think is probably a bit

202  
00:09:19,940 --> 00:09:17,210  
like beyond 2000

203  
00:09:25,130 --> 00:09:19,950  
it's a very popular science magazine

204  
00:09:26,990 --> 00:09:25,140  
show on TV Darren a documentaries I made

205  
00:09:29,540 --> 00:09:27,000  
a documentary about a fair Mars Last

206  
00:09:32,510 --> 00:09:29,550  
Theorem for the most notorious problem

207  
00:09:35,060 --> 00:09:32,520  
in the history of math and it was a very

208  
00:09:37,670 --> 00:09:35,070  
successful program and it was such an

209  
00:09:39,610 --> 00:09:37,680  
amazing story it's a great mathematical

210  
00:09:42,050 --> 00:09:39,620  
story but it's also a story about

211  
00:09:44,120 --> 00:09:42,060  
assuming obsession and childhood

212  
00:09:47,630 --> 00:09:44,130  
ambition and all sorts of very human

213  
00:09:49,340 --> 00:09:47,640

thing so that's what I decided to write

214

00:09:52,250 --> 00:09:49,350

a book about the same subject and and

215

00:09:55,040 --> 00:09:52,260

since then I've been writing probably

216

00:09:59,270 --> 00:09:55,050

more than being involved in in broadcast

217

00:10:00,770 --> 00:09:59,280

media mmm well do did you work much in

218

00:10:03,050 --> 00:10:00,780

research you mentioned stone that you

219

00:10:07,010 --> 00:10:03,060

did during a PhD but do you ever miss

220

00:10:09,110 --> 00:10:07,020

doing that kind of thing um I do because

221

00:10:11,210 --> 00:10:09,120

well you know what because I'm a science

222

00:10:12,470 --> 00:10:11,220

to enlist you know I'm talk to the

223

00:10:14,570 --> 00:10:12,480

scientists I'm hearing about the

224

00:10:16,310 --> 00:10:14,580

wonderful things they're doing and you

225

00:10:18,350 --> 00:10:16,320

know you visit labs and anything was

226

00:10:21,260 --> 00:10:18,360

amazing i was back concerned just a few

227

00:10:22,340 --> 00:10:21,270

weeks ago looking at the new experiments

228

00:10:26,800 --> 00:10:22,350

that they're going to be up and running

229

00:10:30,140 --> 00:10:26,810

again in September um but I have

230

00:10:33,050 --> 00:10:30,150

tremendous fun doing what I'm doing as a

231

00:10:36,770 --> 00:10:33,060

science journalist and it's sort of was

232

00:10:40,910 --> 00:10:36,780

I think I was supposed to do because i

233

00:10:42,650 --> 00:10:40,920

love you know learning different ideas

234

00:10:44,000 --> 00:10:42,660

from different areas of science and i

235

00:10:46,460 --> 00:10:44,010

enjoyed thinking about different ways to

236

00:10:49,670 --> 00:10:46,470

make those ideas exciting and

237

00:10:52,700 --> 00:10:49,680

interesting to a general audience and so

238

00:10:53,930 --> 00:10:52,710

I think I just ended up doing the thing

239

00:10:56,300 --> 00:10:53,940

that I was supposed to do all along

240

00:10:58,070 --> 00:10:56,310

perhaps but I couldn't do what I do do

241

00:10:59,930 --> 00:10:58,080

now if I hadn't been through that

242

00:11:01,970 --> 00:10:59,940

process of doing a PhD that was a

243

00:11:06,470 --> 00:11:01,980

tremendous insight into how science

244

00:11:09,260 --> 00:11:06,480

works and with a stepping stone towards

245

00:11:11,570 --> 00:11:09,270

what i do now also things like a wood

246

00:11:14,570 --> 00:11:11,580

while i was in college i taught in south

247

00:11:16,370 --> 00:11:14,580

africa for a while i taught in india so

248

00:11:19,190 --> 00:11:16,380

again just teaching and talking two

249

00:11:21,020 --> 00:11:19,200

small kids about science you know helped

250

00:11:22,460 --> 00:11:21,030

develop skills which many years later

251

00:11:25,480 --> 00:11:22,470

turned actually really valuable for

252

00:11:28,579 --> 00:11:25,490

there's odd combination experiences i've

253

00:11:30,770 --> 00:11:28,589

had along the way have helped me become

254

00:11:33,680 --> 00:11:30,780

a massage right of the lion today

255

00:11:36,710 --> 00:11:33,690

yeah it's it's funny actually Simon

256

00:11:38,630 --> 00:11:36,720

because i myself have a PhD in cell

257

00:11:41,180 --> 00:11:38,640

biology research but i also do a lot of

258

00:11:44,030 --> 00:11:41,190

science communication i do a children's

259

00:11:45,500 --> 00:11:44,040

show science our children show with with

260

00:11:47,870 --> 00:11:45,510

Richard Saunders the producer of this

261

00:11:49,370 --> 00:11:47,880

podcast and I'm starting to move into

262

00:11:50,810 --> 00:11:49,380

that area too but I'm worried I'm going

263

00:11:52,340 --> 00:11:50,820

to miss the bench you know I really do

264

00:11:54,620 --> 00:11:52,350

like getting in there and getting my

265

00:11:56,570 --> 00:11:54,630

hands dirty and you know making things

266

00:11:58,760 --> 00:11:56,580

blow up and and all that sort of stuff

267

00:12:03,980 --> 00:11:58,770

it's it's fascinating work really fun

268

00:12:06,020 --> 00:12:03,990

stuff yes it is it and I mean I mean the

269

00:12:08,420 --> 00:12:06,030

great thing is you can do both you know

270

00:12:12,110 --> 00:12:08,430

you know necessary have to make the leap

271

00:12:13,520 --> 00:12:12,120

one way or the other but but but it's

272

00:12:15,920 --> 00:12:13,530

interesting is he working with young

273

00:12:18,290 --> 00:12:15,930

children I remember when I first wrote a

274

00:12:21,080 --> 00:12:18,300

book I give talks in museums and

275

00:12:23,390 --> 00:12:21,090

bookshops and you talk to grown-ups who

276

00:12:24,620 --> 00:12:23,400

were clearly clearly interested in what

277

00:12:26,690 --> 00:12:24,630

you were saying because they'd walked

278

00:12:28,670 --> 00:12:26,700

all the way to the museum to come and

279

00:12:31,130 --> 00:12:28,680

hear you speak but when you talk to

280

00:12:33,710 --> 00:12:31,140

school kids you know half the kids in

281

00:12:36,290 --> 00:12:33,720

the class may not be that turned on by

282

00:12:37,910 --> 00:12:36,300

science so you have to work harder to

283

00:12:41,420 --> 00:12:37,920

get them interested and you develop

284

00:12:43,520 --> 00:12:41,430

tricks and ideas and to make the science

285

00:12:46,070 --> 00:12:43,530

relevant or interesting or or or

286

00:12:47,720 --> 00:12:46,080

enticing and then you take those tricks

287

00:12:49,670 --> 00:12:47,730

and ideas and you present them back to

288

00:12:52,520 --> 00:12:49,680

the grown-ups and the grown-ups love

289

00:12:55,040 --> 00:12:52,530

them just as much so I found that why i

290

00:12:57,200 --> 00:12:55,050

lecture too grown up to those developed

291

00:12:58,790 --> 00:12:57,210

out of the ideas that I use when I'm

292

00:13:01,700 --> 00:12:58,800

trying to get kids excited about those

293

00:13:04,430 --> 00:13:01,710

same ideas so we we've you know we've

294

00:13:07,310 --> 00:13:04,440

done big theater project here in London

295

00:13:09,170 --> 00:13:07,320

and again a lot of fear Tigers come out

296

00:13:11,120 --> 00:13:09,180

of work we've done with wicked yeah

297

00:13:13,400 --> 00:13:11,130

that's true we find the same thing in

298

00:13:15,310 --> 00:13:13,410

fact we do it show that we do for very

299

00:13:18,350 --> 00:13:15,320

young kids sort of between the ages of

300

00:13:20,030 --> 00:13:18,360

sort of five up to eight years old and

301

00:13:21,980 --> 00:13:20,040

then we'll do it for kids in high school

302

00:13:23,750 --> 00:13:21,990

and we don't have to change that much

303

00:13:26,210 --> 00:13:23,760

and then we do this a similar show to

304

00:13:30,320 --> 00:13:26,220

the high school show for adults and they

305

00:13:33,830 --> 00:13:30,330

all they all love it yeah i mean its

306

00:13:35,120 --> 00:13:33,840

eyes a little bit part we talking to

307

00:13:38,900 --> 00:13:35,130

grown ups as though they were five year

308

00:13:40,250 --> 00:13:38,910

olds but it's and there's a

309

00:13:41,990 --> 00:13:40,260

demonstration which I won't describe

310

00:13:44,100 --> 00:13:42,000

because it's quite dangerous I wouldn't

311

00:13:46,199 --> 00:13:44,110

want anybody else to repeat it but but

312

00:13:48,990 --> 00:13:46,209

yeah but some of these demonstrations

313

00:13:51,720 --> 00:13:49,000

are just amazing whatever age you are

314

00:13:54,720 --> 00:13:51,730

and they capture people attention and it

315

00:13:56,519 --> 00:13:54,730

gives you that wow moment and then eats

316

00:13:57,870 --> 00:13:56,529

the questions and arrived at event the

317

00:13:59,250 --> 00:13:57,880

question that a five-year-old the last

318

00:14:02,130 --> 00:13:59,260

will be very different from the question

319

00:14:04,310 --> 00:14:02,140

to the Graduate would ask or somebody

320

00:14:07,410 --> 00:14:04,320

else but they're all inspired by that

321

00:14:11,370 --> 00:14:07,420

magical moment that suddenly brought the

322

00:14:13,410 --> 00:14:11,380

fire alive mmm yeah well you mentioned

323

00:14:14,759 --> 00:14:13,420

science communication and journalism as

324

00:14:17,550 --> 00:14:14,769

well which is something that you do a

325

00:14:19,620 --> 00:14:17,560

lot of there has been quite a lot of

326

00:14:21,210 --> 00:14:19,630

criticism of late of the quality of

327

00:14:23,100 --> 00:14:21,220

science journalism and in particular

328

00:14:27,180 --> 00:14:23,110

this is something that Ben Goldacre does

329

00:14:28,620 --> 00:14:27,190

a lot of what's your opinion of the

330

00:14:30,060 --> 00:14:28,630

quality of science journalism in the

331

00:14:35,220 --> 00:14:30,070

world now do you think that it's under

332

00:14:37,139 --> 00:14:35,230

threat oh if it's a complicated it's a

333

00:14:40,500 --> 00:14:37,149

really complicated picture movement just

334

00:14:42,150 --> 00:14:40,510

this week in fact tomorrow is the World

335

00:14:45,509 --> 00:14:42,160

Federation of science journalists a

336

00:14:46,639 --> 00:14:45,519

meeting in London and so they'll be 600

337

00:14:50,220 --> 00:14:46,649

journalist from all over the world

338

00:14:52,439 --> 00:14:50,230

meeting to talk about different ideas in

339

00:14:54,180 --> 00:14:52,449

science that are emerging and the

340

00:14:58,110 --> 00:14:54,190

different issues confronting sighs turns

341

00:15:01,110 --> 00:14:58,120

around the world and the scientists that

342

00:15:03,030 --> 00:15:01,120

are bothering to come to London are the

343

00:15:05,790 --> 00:15:03,040

specialists science correspondence and

344

00:15:08,790 --> 00:15:05,800

they probably have a scientific

345

00:15:12,030 --> 00:15:08,800

background and they certainly care about

346

00:15:13,680 --> 00:15:12,040

science and they're the best science

347

00:15:16,019 --> 00:15:13,690

correspondence we have that they're

348

00:15:18,389 --> 00:15:16,029

great and they they do a great job and

349

00:15:21,480 --> 00:15:18,399

that's fantastic the problem is when

350

00:15:23,250 --> 00:15:21,490

science becomes a really big story it

351  
00:15:26,180 --> 00:15:23,260  
often gets taken out of the hands of the

352  
00:15:28,680 --> 00:15:26,190  
science correspondent and gets given to

353  
00:15:30,930 --> 00:15:28,690  
whoever's writing for the front page or

354  
00:15:33,569 --> 00:15:30,940  
whoever the the columnist is it's got

355  
00:15:36,900 --> 00:15:33,579  
you know the most sensational column in

356  
00:15:39,660 --> 00:15:36,910  
the newspaper and so on and and that's

357  
00:15:41,840 --> 00:15:39,670  
when you when there's a concern of the

358  
00:15:45,030 --> 00:15:41,850  
science being distorted or

359  
00:15:47,280 --> 00:15:45,040  
sensationalized or you either have on

360  
00:15:50,850 --> 00:15:47,290  
one extreme scare mongering or on the

361  
00:15:53,699 --> 00:15:50,860  
other extreme miracle cure and that

362  
00:15:56,340 --> 00:15:53,709  
that's the concern I think is that split

363  
00:15:57,569 --> 00:15:56,350

between the credible science journalist

364

00:15:57,960 --> 00:15:57,579

who really know what they're doing you

365

00:16:01,499 --> 00:15:57,970

just

366

00:16:03,170 --> 00:16:01,509

job and the non-specialist who often get

367

00:16:06,300 --> 00:16:03,180

hold of the wrong end of the stick and

368

00:16:08,639 --> 00:16:06,310

who are generally keen to sensationalize

369

00:16:11,340 --> 00:16:08,649

anyway and who then distort the subject

370

00:16:13,319 --> 00:16:11,350

on important issues whether it's genetic

371

00:16:15,480 --> 00:16:13,329

modification whether it's global warming

372

00:16:17,340 --> 00:16:15,490

or whether it's swine flu or MMR or

373

00:16:19,259 --> 00:16:17,350

whatever and I think they're real

374

00:16:21,749 --> 00:16:19,269

concerns about the way science is

375

00:16:24,179 --> 00:16:21,759

reported by the general non-specialist

376

00:16:26,400 --> 00:16:24,189

early yes what MMA is a very good

377

00:16:28,860 --> 00:16:26,410

example of that particularly in the UK

378

00:16:31,470 --> 00:16:28,870

is and that I mean that campaign has

379

00:16:33,360 --> 00:16:31,480

been attributed or at least a part of it

380

00:16:36,389 --> 00:16:33,370

to the fact that it was reported in the

381

00:16:38,759 --> 00:16:36,399

mainstream media quite incorrectly I

382

00:16:40,110 --> 00:16:38,769

guess you could say and that's resulted

383

00:16:43,350 --> 00:16:40,120

in a huge drop in the rate of

384

00:16:45,269 --> 00:16:43,360

vaccination for MMR in in the UK which

385

00:16:46,679 --> 00:16:45,279

of course is now still a problem and of

386

00:16:48,749 --> 00:16:46,689

course it's a problem across the rest of

387

00:16:54,210 --> 00:16:48,759

the world including Australia we see it

388

00:16:58,439 --> 00:16:54,220

here as well yes and with interesting to

389

00:16:59,369 --> 00:16:58,449

see how that all unfolded generally sort

390

00:17:01,889 --> 00:16:59,379

of thought well this is such an

391

00:17:03,689 --> 00:17:01,899

important story it's about parents and

392

00:17:05,250 --> 00:17:03,699

about their children and we must get the

393

00:17:07,590 --> 00:17:05,260

message out there and if NMR is

394

00:17:09,419 --> 00:17:07,600

dangerous we must we must save these

395

00:17:10,890 --> 00:17:09,429

babies from this terrible harm is being

396

00:17:12,929 --> 00:17:10,900

inflicted on them and we must make

397

00:17:14,429 --> 00:17:12,939

parents aware of it and suddenly the

398

00:17:16,949 --> 00:17:14,439

stores were splashed on the front page

399

00:17:18,510 --> 00:17:16,959

and that you know the colonists would

400

00:17:20,069 --> 00:17:18,520

want to have their opinion and another

401  
00:17:21,779 --> 00:17:20,079  
columnist would they were my friends and

402  
00:17:23,939 --> 00:17:21,789  
mother and her child had this or that

403  
00:17:27,210 --> 00:17:23,949  
and it became about personal experiences

404  
00:17:30,539 --> 00:17:27,220  
and one-off stories and anecdotes and

405  
00:17:32,730 --> 00:17:30,549  
which other lobby group to get access to

406  
00:17:35,460 --> 00:17:32,740  
the journalists would would have the

407  
00:17:37,830 --> 00:17:35,470  
most coverage and it was also this idea

408  
00:17:40,590 --> 00:17:37,840  
of balance though the year has one

409  
00:17:42,600 --> 00:17:40,600  
scientist he says that there's no good

410  
00:17:44,789 --> 00:17:42,610  
evidence whatsoever to suggest that the

411  
00:17:47,760 --> 00:17:44,799  
MMR vaccine a dangerous you have to

412  
00:17:50,850 --> 00:17:47,770  
balance that with potentially the

413  
00:17:53,370 --> 00:17:50,860

renegade scientist the maverick who

414

00:17:55,860 --> 00:17:53,380

disagrees all the mother with the

415

00:17:59,399 --> 00:17:55,870

heart-rending story on the other side

416

00:18:02,250 --> 00:17:59,409

and that that's not really a fair fight

417

00:18:03,659 --> 00:18:02,260

because if you've got 99 percent of

418

00:18:06,630 --> 00:18:03,669

scientists saying one thing and one

419

00:18:08,310 --> 00:18:06,640

percent saying the other well from the

420

00:18:09,870 --> 00:18:08,320

listeners point of view all the hearing

421

00:18:11,760 --> 00:18:09,880

is a one-on-one fight between two

422

00:18:14,340 --> 00:18:11,770

scientists it looks like opinions of

423

00:18:15,690 --> 00:18:14,350

I did the journalist really struggle

424

00:18:19,710 --> 00:18:15,700

with this idea of balance because

425

00:18:22,200 --> 00:18:19,720

balance in a ways if part of you know

426

00:18:24,960 --> 00:18:22,210

the core of journalism but but if the

427

00:18:26,460 --> 00:18:24,970

evidence is so one sided I think what

428

00:18:29,070 --> 00:18:26,470

scientists feel is it is unfair to

429

00:18:32,120 --> 00:18:29,080

represent a balance in evidence and but

430

00:18:34,680 --> 00:18:32,130

by by having a balance of interviewees

431

00:18:37,230 --> 00:18:34,690

yes that's true i mean that happens in

432

00:18:39,570 --> 00:18:37,240

this country as well and the one percent

433

00:18:42,480 --> 00:18:39,580

is a lobby group with respect to the

434

00:18:43,980 --> 00:18:42,490

anti back slowly group here and i have

435

00:18:45,840 --> 00:18:43,990

spoken to journalists myself personally

436

00:18:48,060 --> 00:18:45,850

who are interviewing me about that issue

437

00:18:49,920 --> 00:18:48,070

and they'll say well we have to speak to

438

00:18:52,470 --> 00:18:49,930

the other side and i've tried to explain

439

00:18:54,120 --> 00:18:52,480

that to them but as you say it's very

440

00:18:56,250 --> 00:18:54,130

difficult for them to understand that

441

00:18:57,900 --> 00:18:56,260

that's the one percent fringe as opposed

442

00:19:03,690 --> 00:18:57,910

to the ninety-nine percent of evidence

443

00:19:05,910 --> 00:19:03,700

but yeah I because I'm in Australia it's

444

00:19:10,920 --> 00:19:05,920

for child to go to school with

445

00:19:14,190 --> 00:19:10,930

vaccination essential no it's not it's

446

00:19:17,310 --> 00:19:14,200

not enforced children are given a book

447

00:19:18,570 --> 00:19:17,320

which details their vaccination schedule

448

00:19:20,790 --> 00:19:18,580

and whether or not they've handled their

449

00:19:27,030 --> 00:19:20,800

vaccinations but there are exemptions

450

00:19:28,560 --> 00:19:27,040

available it's not enforced I mean it's

451

00:19:30,440 --> 00:19:28,570

a discussion it's emerging in this

452

00:19:33,090 --> 00:19:30,450

country as to whether that would be a

453

00:19:35,040 --> 00:19:33,100

good thing or a bad thing or how it

454

00:19:36,930 --> 00:19:35,050

would be enforced and so on and I think

455

00:19:40,110 --> 00:19:36,940

that's a really interesting discussion

456

00:19:43,890 --> 00:19:40,120

that journalist and the public and

457

00:19:45,960 --> 00:19:43,900

teachers and parents can have you know

458

00:19:48,060 --> 00:19:45,970

bringing their own opinion as to whether

459

00:19:52,320 --> 00:19:48,070

that would be effective or how it might

460

00:19:54,390 --> 00:19:52,330

work but that that discussion has to be

461

00:19:56,820 --> 00:19:54,400

based on the science and scientific

462

00:20:00,000 --> 00:19:56,830

facts that were fairly certain off as

463

00:20:02,820 --> 00:20:00,010

opposed to the discussion being about

464

00:20:05,250 --> 00:20:02,830

the scientific facts between renegades

465

00:20:06,480 --> 00:20:05,260

and Mavericks and lobby groups against

466

00:20:08,820 --> 00:20:06,490

the scientists who sort of know what

467

00:20:10,320 --> 00:20:08,830

they're talking about so there's

468

00:20:12,810 --> 00:20:10,330

certainly a role for public discussion

469

00:20:15,180 --> 00:20:12,820

of the issues but those that public

470

00:20:17,010 --> 00:20:15,190

discussion has to be based on the best

471

00:20:18,810 --> 00:20:17,020

available evidence yeah absolutely

472

00:20:20,370 --> 00:20:18,820

actually I've read a little bit of

473

00:20:22,500 --> 00:20:20,380

coverage of that recently there was an

474

00:20:24,660 --> 00:20:22,510

article written i think it was in The

475

00:20:25,529 --> 00:20:24,670

Guardian in fact a couple of articles

476

00:20:27,389 --> 00:20:25,539

and one of them

477

00:20:29,129 --> 00:20:27,399

saying that they should be special

478

00:20:32,940 --> 00:20:29,139

schools for people that don't get their

479

00:20:36,269 --> 00:20:32,950

kids vaccinated by mm okay yeah I've

480

00:20:37,680 --> 00:20:36,279

been exactly idea yeah anyway let's get

481

00:20:39,989 --> 00:20:37,690

on to the British Chiropractic

482

00:20:43,769 --> 00:20:39,999

Association Simon which is what we want

483

00:20:45,299 --> 00:20:43,779

to talk about now you are currently and

484

00:20:47,489 --> 00:20:45,309

I know this some of this you can't

485

00:20:48,989 --> 00:20:47,499

discuss for legal reasons but can you

486

00:20:51,690 --> 00:20:48,999

just explain briefly to our listeners

487

00:20:55,200 --> 00:20:51,700

about the case that the BCA has brought

488

00:20:58,249 --> 00:20:55,210

against you for defamation or libel yes

489

00:21:01,680 --> 00:20:58,259

sure I'm interesting history first I am

490

00:21:04,580 --> 00:21:01,690

my background is in physics and my first

491

00:21:08,009 --> 00:21:04,590

three books were sort of about

492

00:21:12,269 --> 00:21:08,019

mathematics or cosmology or technology

493

00:21:14,190 --> 00:21:12,279

in the form of cryptography and it was

494

00:21:15,930 --> 00:21:14,200

quite a jump when I moved from from

495

00:21:18,180 --> 00:21:15,940

those kind of subject to writing about

496

00:21:21,659 --> 00:21:18,190

alternative medicine and the reason I

497

00:21:24,239 --> 00:21:21,669

made that jump was because I was aware

498

00:21:26,609 --> 00:21:24,249

of young students using homeopathy to

499

00:21:30,029 --> 00:21:26,619

protect themselves against malaria which

500

00:21:32,039 --> 00:21:30,039

is a patently ridiculous thing to do but

501  
00:21:35,820 --> 00:21:32,049  
these students who are pretty smart more

502  
00:21:37,589 --> 00:21:35,830  
obviously being said bad advice about

503  
00:21:39,930 --> 00:21:37,599  
the supposed claims of homeopathy

504  
00:21:41,159 --> 00:21:39,940  
homeopathy yeah there's no reason why

505  
00:21:43,289 --> 00:21:41,169  
homeopathy should protect anybody

506  
00:21:44,879 --> 00:21:43,299  
against malaria and then however it's

507  
00:21:48,359 --> 00:21:44,889  
the suggested handle either and

508  
00:21:50,969 --> 00:21:48,369  
therefore it will be very unwise for

509  
00:21:52,830 --> 00:21:50,979  
student to take homeopathy thinking

510  
00:21:54,659 --> 00:21:52,840  
might protect them against malaria but

511  
00:21:58,349 --> 00:21:54,669  
this was happening so I did a little

512  
00:22:00,989 --> 00:21:58,359  
investigation and a young student

513  
00:22:02,820 --> 00:22:00,999

approached han homeopath and every

514

00:22:05,399 --> 00:22:02,830

single one of these ten homeopaths was

515

00:22:07,649 --> 00:22:05,409

willing to give her homeopathy to

516

00:22:09,089 --> 00:22:07,659

protect her on what she said she was

517

00:22:12,659 --> 00:22:09,099

going to be going on a 10-week truck to

518

00:22:14,969 --> 00:22:12,669

a West Africa so that made me realize it

519

00:22:17,249 --> 00:22:14,979

that there's a lot of misinformation

520

00:22:19,889 --> 00:22:17,259

about alternative therapies some of it

521

00:22:21,539 --> 00:22:19,899

may be potentially dangerous maybe

522

00:22:24,659 --> 00:22:21,549

there's not pretentious to investigate

523

00:22:27,359 --> 00:22:24,669

this and to look at the evidence for a

524

00:22:28,739 --> 00:22:27,369

range of alternative therapies to talk

525

00:22:30,539 --> 00:22:28,749

about evidence in general Howard

526

00:22:32,279 --> 00:22:30,549

evidence accumulated in medicine what is

527

00:22:34,769 --> 00:22:32,289

evidence-based medicine what a clinical

528

00:22:36,330 --> 00:22:34,779

trials how they work and what do they

529

00:22:38,940 --> 00:22:36,340

say about the range of alternative

530

00:22:39,420 --> 00:22:38,950

therapies and so I started writing a

531

00:22:42,330 --> 00:22:39,430

book

532

00:22:46,620 --> 00:22:42,340

trickle treatments which I co-authored

533

00:22:48,720 --> 00:22:46,630

with Professor EDS other beds added the

534

00:22:52,110 --> 00:22:48,730

world's first professor of alternative

535

00:22:54,480 --> 00:22:52,120

medicine and so he spent the last 15

536

00:22:58,170 --> 00:22:54,490

years looking at all of the evidence and

537

00:23:01,350 --> 00:22:58,180

the idea was to take his research to

538

00:23:03,240 --> 00:23:01,360

fate other people's research and tell

539

00:23:05,550 --> 00:23:03,250

the public about what works and what

540

00:23:08,580 --> 00:23:05,560

doesn't work what's safe and what's

541

00:23:09,800 --> 00:23:08,590

dangerous and the picture is complicated

542

00:23:12,030 --> 00:23:09,810

you have to look each therapy

543

00:23:14,700 --> 00:23:12,040

individually because some of them

544

00:23:16,320 --> 00:23:14,710

actually do seem to work and many others

545

00:23:19,920 --> 00:23:16,330

don't but we you know we put a look at

546

00:23:22,230 --> 00:23:19,930

the evidence in order to decide and when

547

00:23:25,400 --> 00:23:22,240

the book was published back in april two

548

00:23:28,250 --> 00:23:25,410

thousand eight i wrote a few articles

549

00:23:30,650 --> 00:23:28,260

and one of the answers i wrote about

550

00:23:35,220 --> 00:23:30,660

what were well as i wrote with a bad

551  
00:23:36,780 --> 00:23:35,230  
chiropractic and yes because there's a

552  
00:23:39,510 --> 00:23:36,790  
whole chapter in your book simon on

553  
00:23:43,560 --> 00:23:39,520  
chiropractic isn't there that's why yes

554  
00:23:46,050 --> 00:23:43,570  
and many people work with chiropractic

555  
00:23:47,700 --> 00:23:46,060  
real turnip if you know it's just spinal

556  
00:23:49,530 --> 00:23:47,710  
manipulation and missing liberate the

557  
00:23:52,530 --> 00:23:49,540  
spine will fix somebody's back you know

558  
00:23:54,810 --> 00:23:52,540  
that sounds very reasonable and it's

559  
00:23:56,670 --> 00:23:54,820  
fairly reasonable and there's some

560  
00:23:58,980 --> 00:23:56,680  
evidence to show the chiropractor's can

561  
00:24:01,500 --> 00:23:58,990  
help with back problems I don't think

562  
00:24:02,910 --> 00:24:01,510  
it's very convincing evidence but the

563  
00:24:06,750 --> 00:24:02,920

back problems are notoriously difficult

564

00:24:09,050 --> 00:24:06,760

so you know if nothing else works in

565

00:24:13,290 --> 00:24:09,060

chiropractic maybe what what helps you

566

00:24:14,940 --> 00:24:13,300

but my concern in the article was the

567

00:24:18,560 --> 00:24:14,950

fact that chiropractors were sometimes

568

00:24:21,030 --> 00:24:18,570

making claims that go beyond the back

569

00:24:22,920 --> 00:24:21,040

and this goes back to their historical

570

00:24:24,810 --> 00:24:22,930

roots if you go back to the invention of

571

00:24:27,450 --> 00:24:24,820

chiropractic by a chap called Daniel

572

00:24:31,170 --> 00:24:27,460

Parma parlor believed he could treat

573

00:24:33,720 --> 00:24:31,180

anything by spinal manipulation because

574

00:24:35,880 --> 00:24:33,730

the spine carried what he called a mate

575

00:24:37,890 --> 00:24:35,890

energy through to the rest of the

576

00:24:41,100 --> 00:24:37,900

nervous system through to the rest of

577

00:24:42,420 --> 00:24:41,110

the body so if you add s the reason you

578

00:24:44,550 --> 00:24:42,430

were death was because there was a

579

00:24:46,650 --> 00:24:44,560

blockage in the innate energy in your

580

00:24:49,260 --> 00:24:46,660

spine which wasn't getting through to

581

00:24:51,390 --> 00:24:49,270

your ear and therefore if you fix the

582

00:24:53,350 --> 00:24:51,400

spine you can fix the deafness and in

583

00:24:55,900 --> 00:24:53,360

fact the first perfectly cured

584

00:24:58,180 --> 00:24:55,910

was a profoundly deaf man in America

585

00:25:01,270 --> 00:24:58,190

second person teachers have had serious

586

00:25:03,580 --> 00:25:01,280

heart disease yeah that that's the root

587

00:25:06,480 --> 00:25:03,590

of chiropractic now a lot of that

588

00:25:09,970 --> 00:25:06,490

disappeared and most chiropractors

589

00:25:12,100 --> 00:25:09,980

mainly deal with back problems but some

590

00:25:14,950 --> 00:25:12,110

of them still claim to treat childhood

591

00:25:17,799 --> 00:25:14,960

conditions like asthma colic ear

592

00:25:21,340 --> 00:25:17,809

infections and so on and that's where my

593

00:25:23,980 --> 00:25:21,350

article was really centered I I question

594

00:25:25,780 --> 00:25:23,990

the evidence on that and the British

595

00:25:31,750 --> 00:25:25,790

Chiropractic Association sued me for

596

00:25:33,340 --> 00:25:31,760

libel yes yeah and so the interesting

597

00:25:35,320 --> 00:25:33,350

thing about this case though and I

598

00:25:37,480 --> 00:25:35,330

wanted to ask you a little bit about the

599

00:25:39,669 --> 00:25:37,490

libraries in the UK as well because

600

00:25:40,990 --> 00:25:39,679

they're quite different to Australia but

601  
00:25:44,140 --> 00:25:41,000  
the interesting thing about this was

602  
00:25:46,030 --> 00:25:44,150  
when you went to court the judge defined

603  
00:25:48,520 --> 00:25:46,040  
the word bogus which I believe you used

604  
00:25:50,380 --> 00:25:48,530  
in your article as a different meaning

605  
00:25:53,020 --> 00:25:50,390  
to what you intended to believe is that

606  
00:25:55,990 --> 00:25:53,030  
correct I'm sorry what you intended to

607  
00:25:58,750 --> 00:25:56,000  
mean yeah I mean to go back one step I

608  
00:26:02,650 --> 00:25:58,760  
mean I think you know if there was a

609  
00:26:04,840 --> 00:26:02,660  
misunderstanding then the best

610  
00:26:06,549 --> 00:26:04,850  
chiropractic association will offer the

611  
00:26:08,080 --> 00:26:06,559  
right of reply in the guard and they had

612  
00:26:09,909 --> 00:26:08,090  
500 words where they could have written

613  
00:26:12,760 --> 00:26:09,919

their their account or their view or

614

00:26:18,220 --> 00:26:12,770

showing their evidence they were offered

615

00:26:20,890 --> 00:26:18,230

a clarification but they seem to prefer

616

00:26:23,680 --> 00:26:20,900

taking a legal option so we ended up

617

00:26:27,460 --> 00:26:23,690

going to court and we haven't had the

618

00:26:30,039 --> 00:26:27,470

full trial yet but but before that we

619

00:26:32,799 --> 00:26:30,049

had a ruling on meaning which even go to

620

00:26:35,230 --> 00:26:32,809

the high court and the judge says this

621

00:26:36,669 --> 00:26:35,240

is what your article means so that when

622

00:26:39,669 --> 00:26:36,679

we do have the trial we know what we're

623

00:26:43,840 --> 00:26:39,679

arguing about and the judge decided that

624

00:26:46,630 --> 00:26:43,850

I was not only saying that these

625

00:26:48,720 --> 00:26:46,640

treatments aren't backed by evidence but

626

00:26:52,180 --> 00:26:48,730

that the chiropractors are also

627

00:26:53,860 --> 00:26:52,190

deliberately dishonest in using these

628

00:26:55,240 --> 00:26:53,870

treatments so it's not that their

629

00:26:57,750 --> 00:26:55,250

interpretation of the evidence is

630

00:27:01,000 --> 00:26:57,760

different from mine is that they

631

00:27:02,500 --> 00:27:01,010

actively and dishonestly promote

632

00:27:05,290 --> 00:27:02,510

treatments that they know to be

633

00:27:06,880 --> 00:27:05,300

ineffective I don't think that's that I

634

00:27:08,320 --> 00:27:06,890

know that's not what I meant

635

00:27:10,180 --> 00:27:08,330

and I don't think that's what a

636

00:27:11,200 --> 00:27:10,190

reasonable interpretation of the article

637

00:27:13,080 --> 00:27:11,210

is which is why we're currently

638

00:27:16,690 --> 00:27:13,090

appealing the judge's ruling on meaning

639

00:27:19,510 --> 00:27:16,700

the judge took the phrase happily

640

00:27:23,260 --> 00:27:19,520

promotes bogus therapies to mean

641

00:27:26,650 --> 00:27:23,270

knowingly promotes fortune of therapies

642

00:27:31,300 --> 00:27:26,660

now a bogus therapy to mean I'm

643

00:27:33,010 --> 00:27:31,310

scientific I'm proven ineffective all

644

00:27:37,840 --> 00:27:33,020

sorts of different meanings happily can

645

00:27:39,130 --> 00:27:37,850

mean innocently blithely unknowingly in

646

00:27:42,700 --> 00:27:39,140

blissful ignorance all sorts of

647

00:27:43,960 --> 00:27:42,710

different things now we are arguing and

648

00:27:45,340 --> 00:27:43,970

I think we're on failing the ground

649

00:27:47,320 --> 00:27:45,350

whether we win the appeal or not I don't

650

00:27:48,790 --> 00:27:47,330

know or whether we even get her than the

651

00:27:51,940 --> 00:27:48,800

course of appeal is still is still

652

00:27:53,860 --> 00:27:51,950

debatable at the moment but if the

653

00:27:57,210 --> 00:27:53,870

content of the article is very important

654

00:28:01,030 --> 00:27:57,220

and earlier in the article I call

655

00:28:05,080 --> 00:28:01,040

chiropractors and fundamentalists I say

656

00:28:08,350 --> 00:28:05,090

they have wacky ideas and so though that

657

00:28:10,210 --> 00:28:08,360

sort of paint a picture of chiropractors

658

00:28:13,600 --> 00:28:10,220

has been fundamentalist having wacky

659

00:28:16,300 --> 00:28:13,610

ideas being eccentric being deluded but

660

00:28:19,480 --> 00:28:16,310

not being deliberately dishonest yeah

661

00:28:22,960 --> 00:28:19,490

and that's why we think the judge took

662

00:28:25,510 --> 00:28:22,970

an unreasonable interpretation yes well

663

00:28:29,320 --> 00:28:25,520

you have submitted your appeal and Jack

664

00:28:31,390 --> 00:28:29,330

of Kent who is a little legal blogger in

665

00:28:34,720 --> 00:28:31,400

the UK has been following your case very

666

00:28:37,750 --> 00:28:34,730

closely and blogging about updates and I

667

00:28:40,630 --> 00:28:37,760

believe that the reply has come in from

668

00:28:42,940 --> 00:28:40,640

the BCA and I read this on his blog just

669

00:28:45,640 --> 00:28:42,950

last night and their reply is something

670

00:28:47,800 --> 00:28:45,650

like 26 pages to your 12 pages of

671

00:28:49,960 --> 00:28:47,810

defense is that right can you ain't

672

00:28:54,540 --> 00:28:49,970

allowed to talk about that yes it's

673

00:28:57,940 --> 00:28:54,550

slightly this dates back i think too

674

00:28:59,560 --> 00:28:57,950

probably be end of last year so these

675

00:29:03,670 --> 00:28:59,570

are late legal documents are they back

676

00:29:05,260 --> 00:29:03,680

to last year but Jack attended just got

677

00:29:07,030 --> 00:29:05,270

hold of them from the from the court

678

00:29:09,610 --> 00:29:07,040

because they're public records and

679

00:29:11,380 --> 00:29:09,620

people can access them and so he's

680

00:29:14,230 --> 00:29:11,390

talking as I would have submitted my

681

00:29:17,920 --> 00:29:14,240

defense hmm which is why I think my

682

00:29:19,670 --> 00:29:17,930

article was reasonable they then submit

683

00:29:22,730 --> 00:29:19,680

their reply which

684

00:29:25,340 --> 00:29:22,740

an attack on my defense and that's a

685

00:29:27,020 --> 00:29:25,350

sort of basis from which the trial will

686

00:29:28,790 --> 00:29:27,030

sort of emerged further down the road

687

00:29:32,210 --> 00:29:28,800

but I do say I think my defenses maybe

688

00:29:36,200 --> 00:29:32,220

12 pages there reply think was possibly

689

00:29:37,610 --> 00:29:36,210

even 36 pages OIC ok so one of the other

690

00:29:38,960 --> 00:29:37,620

things that's happened recently Simon

691

00:29:40,730 --> 00:29:38,970

and this isn't directly related to your

692

00:29:43,820 --> 00:29:40,740

case but I wanted to ask you about it

693

00:29:45,950 --> 00:29:43,830

anyway was the what's become known as

694

00:29:48,710 --> 00:29:45,960

the car apocalypse which occurred

695

00:29:51,140 --> 00:29:48,720

recently where there is it the McTeer

696

00:29:53,840 --> 00:29:51,150

Mick Timoney Association of

697

00:29:55,760 --> 00:29:53,850

chiropractors sent out an email to all

698

00:29:58,250 --> 00:29:55,770

their members asking them to remove any

699

00:30:00,410 --> 00:29:58,260

reference on their websites to the fact

700

00:30:03,440 --> 00:30:00,420

that they treat children for colic do

701  
00:30:08,330 --> 00:30:03,450  
you know much about this I've been

702  
00:30:10,880 --> 00:30:08,340  
following it on the web the I suppose it

703  
00:30:12,530 --> 00:30:10,890  
started with somebody submitting a

704  
00:30:15,670 --> 00:30:12,540  
complaint to the advertising it

705  
00:30:20,810 --> 00:30:15,680  
Standards Authority about one

706  
00:30:22,670 --> 00:30:20,820  
chiropractor promoting a chiropractic

707  
00:30:24,350 --> 00:30:22,680  
for the treatment colic and the

708  
00:30:26,990 --> 00:30:24,360  
advertising thousand authority in

709  
00:30:28,520 --> 00:30:27,000  
Britain is pretty good they tend to look

710  
00:30:29,900 --> 00:30:28,530  
at the scientific evidence and if the

711  
00:30:31,910 --> 00:30:29,910  
scientific evidence doesn't stand up

712  
00:30:33,350 --> 00:30:31,920  
then they uphold the complaint and

713  
00:30:34,970 --> 00:30:33,360

that's what happened in this case they

714

00:30:39,650 --> 00:30:34,980

said that this chiropractor should stop

715

00:30:42,680 --> 00:30:39,660

advertising the treatment of colic and

716

00:30:45,760 --> 00:30:42,690

that happened I think probably in May of

717

00:30:50,420 --> 00:30:45,770

this year which is just a few weeks ago

718

00:30:54,010 --> 00:30:50,430

after that some bloggers skeptics

719

00:30:57,260 --> 00:30:54,020

rationalist kind of got together and

720

00:31:00,560 --> 00:30:57,270

started submitting further complaints

721

00:31:02,900 --> 00:31:00,570

about chiropractors I think Polly

722

00:31:06,350 --> 00:31:02,910

amathaka stands Authority partly to

723

00:31:07,940 --> 00:31:06,360

trading standards partly I think to the

724

00:31:11,620 --> 00:31:07,950

general chiropractic Council as well

725

00:31:14,030 --> 00:31:11,630

that that oversees chiropractors and

726

00:31:16,340 --> 00:31:14,040

they seem to dumb if on a massive

727

00:31:18,200 --> 00:31:16,350

massive scale you may know more others

728

00:31:20,210 --> 00:31:18,210

for me but I think literally there have

729

00:31:23,630 --> 00:31:20,220

been hundreds of complaints submitted

730

00:31:26,540 --> 00:31:23,640

okay there are 75 that i read about at

731

00:31:31,340 --> 00:31:26,550

least 50 that the reaction from the

732

00:31:33,890 --> 00:31:31,350

chiropractors is not surprisingly one of

733

00:31:36,440 --> 00:31:33,900

shock because now all of you trial

734

00:31:38,870 --> 00:31:36,450

practice are being investigated either

735

00:31:40,400 --> 00:31:38,880

by advertised as Authority Trading

736

00:31:43,580 --> 00:31:40,410

Standards all the general chiropractic

737

00:31:47,270 --> 00:31:43,590

counsel and there's a huge spotlight

738

00:31:49,040 --> 00:31:47,280

being shown on chiropractors he made the

739

00:31:52,460 --> 00:31:49,050

sort of planes that were mentioned in my

740

00:31:57,310 --> 00:31:52,470

article so while i'm sort of embroiled

741

00:31:59,720 --> 00:31:57,320

in a legal battle the the blogosphere

742

00:32:03,980 --> 00:31:59,730

had sort of been carrying on its own

743

00:32:07,310 --> 00:32:03,990

battle separately which is a well which

744

00:32:08,570 --> 00:32:07,320

is he's told me that evening well it's

745

00:32:09,920 --> 00:32:08,580

interesting isn't it because it's a

746

00:32:12,410 --> 00:32:09,930

little bit like what happened with the

747

00:32:15,050 --> 00:32:12,420

journey Barnett and LB sating with Ben

748

00:32:19,250 --> 00:32:15,060

Goldacre late last year where they

749

00:32:21,110 --> 00:32:19,260

threatened been with legal action for

750

00:32:23,810 --> 00:32:21,120

putting up the audio of her show where

751  
00:32:25,370 --> 00:32:23,820  
she was damning the MMR and as soon as

752  
00:32:27,200 --> 00:32:25,380  
that got out to the blogosphere it

753  
00:32:29,690 --> 00:32:27,210  
became a Streisand effect and of course

754  
00:32:32,330 --> 00:32:29,700  
everybody found out about it and this is

755  
00:32:34,160 --> 00:32:32,340  
a similar stance in the fact that this

756  
00:32:36,800 --> 00:32:34,170  
email was sent to all the members of the

757  
00:32:39,110 --> 00:32:36,810  
mech Timoney chiropractors saying do not

758  
00:32:40,880 --> 00:32:39,120  
show this to anyone do not tell your

759  
00:32:42,710 --> 00:32:40,890  
patients about this this email is

760  
00:32:44,960 --> 00:32:42,720  
private and of course it was in

761  
00:32:46,610 --> 00:32:44,970  
published on quack ometer and now

762  
00:32:53,420 --> 00:32:46,620  
everybody knows about it and it's gone

763  
00:32:56,180 --> 00:32:53,430

global and viral yes i do know i'm i'm

764

00:32:58,160 --> 00:32:56,190

sort of in mine I get well for whatever

765

00:33:00,290 --> 00:32:58,170

reason whether AIDS related or whatever

766

00:33:02,180 --> 00:33:00,300

the reason is i'm not particularly

767

00:33:05,720 --> 00:33:02,190

techie i'm not i've never really got

768

00:33:08,390 --> 00:33:05,730

into the web and facebook and the

769

00:33:12,470 --> 00:33:08,400

blogosphere and so on but over the last

770

00:33:15,710 --> 00:33:12,480

year it's fascinating to see the power

771

00:33:17,840 --> 00:33:15,720

of the web in this sort of situation for

772

00:33:21,860 --> 00:33:17,850

example there's a Facebook group a link

773

00:33:23,570 --> 00:33:21,870

to the libel case and I think about

774

00:33:27,890 --> 00:33:23,580

seven and a half hours of supporters now

775

00:33:30,620 --> 00:33:27,900

and and it the last year was quite lowly

776

00:33:34,580 --> 00:33:30,630

fighting this legal battle but the

777

00:33:36,920 --> 00:33:34,590

support and the messages of goodwill

778

00:33:39,920 --> 00:33:36,930

coming out of that group have been

779

00:33:42,590 --> 00:33:39,930

really important for me and I think it's

780

00:33:45,360 --> 00:33:42,600

been a way for supporter to talk to each

781

00:33:47,970 --> 00:33:45,370

other and discuss issues and so on

782

00:33:50,490 --> 00:33:47,980

and then things like the way the

783

00:33:52,650 --> 00:33:50,500

bloggers have given really informed

784

00:33:54,750 --> 00:33:52,660

intelligent debate and discussion on

785

00:33:56,010 --> 00:33:54,760

this issue whether it's Jack of counting

786

00:33:58,170 --> 00:33:56,020

there's a very strong legal background

787

00:34:00,930 --> 00:33:58,180

to others who have a more of a

788

00:34:03,930 --> 00:34:00,940

scientific event and you can kind of

789

00:34:05,610 --> 00:34:03,940

analyze things more scientifically or

790

00:34:08,700 --> 00:34:05,620

whether it's those who are more active

791

00:34:11,970 --> 00:34:08,710

and actually initiate some of these

792

00:34:14,100 --> 00:34:11,980

things that are going on the powers of

793

00:34:15,899 --> 00:34:14,110

it is immense and if something I've only

794

00:34:18,330 --> 00:34:15,909

really become aware of in the last say

795

00:34:20,909 --> 00:34:18,340

six months as I've started to watch and

796

00:34:22,860 --> 00:34:20,919

monitor what's going on hmm well in

797

00:34:25,619 --> 00:34:22,870

particular sense about science have been

798

00:34:27,810 --> 00:34:25,629

critical to the to your campaign which

799

00:34:29,820 --> 00:34:27,820

is keeping libel laws out of science and

800

00:34:31,860 --> 00:34:29,830

I believe there are now last time I

801  
00:34:36,000 --> 00:34:31,870  
checked there were 10,000 signatures on

802  
00:34:40,770 --> 00:34:36,010  
the petition for getting the liabilities

803  
00:34:45,810 --> 00:34:40,780  
in the UK changed yes sort of Mike's in

804  
00:34:47,220 --> 00:34:45,820  
my case is the yeah abba's I'm very

805  
00:34:50,430 --> 00:34:47,230  
concerned about my case and the fact

806  
00:34:52,919 --> 00:34:50,440  
that that my ass was being challenged

807  
00:34:55,980 --> 00:34:52,929  
under the liable fisting here in England

808  
00:34:59,040 --> 00:34:55,990  
but the bigger issue is how lively in

809  
00:35:01,740 --> 00:34:59,050  
general can have a slightly scary effect

810  
00:35:05,520 --> 00:35:01,750  
or a very scary effect on journalists in

811  
00:35:08,150 --> 00:35:05,530  
general and percent of a sign to start

812  
00:35:10,020 --> 00:35:08,160  
of a campaign and I'm you know I'm

813  
00:35:11,840 --> 00:35:10,030

closely associated with sense of a

814

00:35:16,740 --> 00:35:11,850

science and involved in the campaign

815

00:35:19,290 --> 00:35:16,750

it's about trying to with the split

816

00:35:20,880 --> 00:35:19,300

limit through this way the problem with

817

00:35:24,800 --> 00:35:20,890

the libel laws in England are they are

818

00:35:28,320 --> 00:35:24,810

horrendously expensive you could easily

819

00:35:31,290 --> 00:35:28,330

get a bill for two million dollars at

820

00:35:33,480 --> 00:35:31,300

the end of the case if you lose if

821

00:35:36,150 --> 00:35:33,490

you're journalist you're pretty much

822

00:35:41,640 --> 00:35:36,160

fighting an uphill battle it's very easy

823

00:35:43,410 --> 00:35:41,650

for people to bring a libel suit as a

824

00:35:45,840 --> 00:35:43,420

journalist short you're guilty until

825

00:35:48,270 --> 00:35:45,850

proven innocent that's a reverse burden

826

00:35:53,280 --> 00:35:48,280

of proof in Bible learning word there's

827

00:35:56,760 --> 00:35:53,290

no there's no financial support for

828

00:35:57,900 --> 00:35:56,770

people as know basically completely full

829

00:35:59,160 --> 00:35:57,910

of thunder yourself if you're a

830

00:36:01,230 --> 00:35:59,170

newspaper publisher

831

00:36:03,450 --> 00:36:01,240

was a lone journalist it's a very

832

00:36:05,819 --> 00:36:03,460

difficult situation and I'm saying the

833

00:36:08,520 --> 00:36:05,829

end of it if you lose you could end up

834

00:36:11,579 --> 00:36:08,530

with a two million dollar bill so when

835

00:36:14,460 --> 00:36:11,589

somebody sees you for libel the smart

836

00:36:17,849 --> 00:36:14,470

thing to do is to back out quickly and

837

00:36:20,910 --> 00:36:17,859

just to say sorry retract apologize and

838

00:36:24,390 --> 00:36:20,920

can get out of it because if you win the

839

00:36:26,789 --> 00:36:24,400

case it'll take up a year of your life

840

00:36:28,950 --> 00:36:26,799

and you'll probably end up losing a few

841

00:36:31,230 --> 00:36:28,960

thousand dollars anyway because you

842

00:36:33,809 --> 00:36:31,240

never recover all of your your costs and

843

00:36:36,930 --> 00:36:33,819

you never recover your time anyway so

844

00:36:40,079 --> 00:36:36,940

winning is pretty bad and losing is

845

00:36:43,470 --> 00:36:40,089

catastrophic it bad and that means that

846

00:36:45,450 --> 00:36:43,480

ever say journalists withdraw articles

847

00:36:49,140 --> 00:36:45,460

that often maybe don't need to be

848

00:36:50,910 --> 00:36:49,150

withdrawn our journalists dirt articles

849

00:36:53,910 --> 00:36:50,920

before they're printed so they take care

850

00:36:55,890 --> 00:36:53,920

anything that might possibly be sued

851  
00:36:59,309 --> 00:36:55,900  
later on because they don't want that

852  
00:37:01,319 --> 00:36:59,319  
risk and going to trial and they often

853  
00:37:04,740 --> 00:37:01,329  
end up you're not even writing about

854  
00:37:06,900 --> 00:37:04,750  
certain subjects because the risks have

855  
00:37:11,569 --> 00:37:06,910  
been taken to court are there and that

856  
00:37:15,510 --> 00:37:11,579  
means you end up with a press which is

857  
00:37:18,089 --> 00:37:15,520  
intimidated from the get-go and so the

858  
00:37:20,789 --> 00:37:18,099  
idea of this campaign is to reform

859  
00:37:24,299 --> 00:37:20,799  
English libel laws to put it into

860  
00:37:27,150 --> 00:37:24,309  
context a libel case in England costs a

861  
00:37:30,059 --> 00:37:27,160  
hundred and forty times more than the

862  
00:37:31,890 --> 00:37:30,069  
European average yeah there's something

863  
00:37:33,870 --> 00:37:31,900

fundamentally wrong with our system when

864

00:37:35,520 --> 00:37:33,880

it's so expensive and there's something

865

00:37:38,700 --> 00:37:35,530

fundamentally wrong when that vast

866

00:37:39,900 --> 00:37:38,710

expense terrifies journalist from

867

00:37:42,990 --> 00:37:39,910

writing what they really ought to be

868

00:37:44,640 --> 00:37:43,000

writing about so that campaign I think

869

00:37:48,720 --> 00:37:44,650

never about fourteen thousand signatures

870

00:37:52,020 --> 00:37:48,730

and as well as massive support from the

871

00:37:53,730 --> 00:37:52,030

public we've got people like Stephen Fry

872

00:37:57,450 --> 00:37:53,740

who I know you were talking to recently

873

00:37:59,430 --> 00:37:57,460

Tim Minchin you know the performers and

874

00:38:01,589 --> 00:37:59,440

writers who care about skepticism and

875

00:38:04,260 --> 00:38:01,599

rationalism scientists like Richard

876

00:38:08,849 --> 00:38:04,270

Dawkins and Sir Martin Rees the

877

00:38:11,339 --> 00:38:08,859

astronomer royal the poet laureate has

878

00:38:12,510 --> 00:38:11,349

signed up all sorts of people who either

879

00:38:15,600 --> 00:38:12,520

care about science

880

00:38:18,360 --> 00:38:15,610

or free speech or journalism they're all

881

00:38:19,920 --> 00:38:18,370

back in the case and if if listeners can

882

00:38:22,970 --> 00:38:19,930

also sign up to the petition I'll be

883

00:38:25,680 --> 00:38:22,980

fantastic it's a sense about science org

884

00:38:27,240 --> 00:38:25,690

sense about science not old and the

885

00:38:29,310 --> 00:38:27,250

reason why the team to get overseas

886

00:38:33,480 --> 00:38:29,320

support and why so many overseas people

887

00:38:37,770 --> 00:38:33,490

are signing up is because potentially

888

00:38:39,810 --> 00:38:37,780

somebody outside of England can end up

889

00:38:41,340 --> 00:38:39,820

in an English law court had not just

890

00:38:44,880 --> 00:38:41,350

potentially and it does happen it's

891

00:38:48,990 --> 00:38:44,890

called libel tourism if if somebody

892

00:38:50,400 --> 00:38:49,000

wants to confront a journalist the best

893

00:38:52,350 --> 00:38:50,410

thing they can do is bring them to

894

00:38:55,170 --> 00:38:52,360

English law court because the expenses

895

00:38:57,630 --> 00:38:55,180

are so great the chances are that the

896

00:38:59,700 --> 00:38:57,640

journalist will have to back down so our

897

00:39:01,050 --> 00:38:59,710

Lord in England are getting other people

898

00:39:03,110 --> 00:39:01,060

into trouble and that's one of the

899

00:39:05,250 --> 00:39:03,120

reasons also why we want to change it I

900

00:39:07,470 --> 00:39:05,260

think it's also really important to

901  
00:39:10,470 --> 00:39:07,480  
emphasize Simon and I've had some people

902  
00:39:12,480 --> 00:39:10,480  
comment about this to me that this is

903  
00:39:15,390 --> 00:39:12,490  
not just about keeping libel laws out of

904  
00:39:17,190 --> 00:39:15,400  
science this is about reforming the

905  
00:39:18,990 --> 00:39:17,200  
library laws across the board and it's

906  
00:39:21,590 --> 00:39:19,000  
much more about free speech isn't it

907  
00:39:24,390 --> 00:39:21,600  
because some people have said to me well

908  
00:39:26,490 --> 00:39:24,400  
we shouldn't be an exceptional special

909  
00:39:28,440 --> 00:39:26,500  
group that's almost like a special

910  
00:39:29,940 --> 00:39:28,450  
pleading in a sense saying don't put

911  
00:39:32,040 --> 00:39:29,950  
those laws on us it's not just about

912  
00:39:36,050 --> 00:39:32,050  
science writers it's about journalism as

913  
00:39:38,670 --> 00:39:36,060

I'm yes you're absolutely right it's um

914

00:39:40,440 --> 00:39:38,680

it's about bloggers it's like people

915

00:39:42,180 --> 00:39:40,450

that buy about politics about people

916

00:39:44,340 --> 00:39:42,190

that want about anything I think sent

917

00:39:46,490 --> 00:39:44,350

about science a keen on the science

918

00:39:50,520 --> 00:39:46,500

angle because there is a scientific

919

00:39:53,400 --> 00:39:50,530

charity and also there's sort of been a

920

00:39:56,160 --> 00:39:53,410

fashion recently for science being taken

921

00:39:57,780 --> 00:39:56,170

to the court there's a cardiologist in

922

00:40:00,510 --> 00:39:57,790

England at the moment called Peter

923

00:40:02,730 --> 00:40:00,520

wilmshurst he's being sued for libel Ben

924

00:40:05,000 --> 00:40:02,740

Goldacre was sued for libel last year

925

00:40:10,830 --> 00:40:05,010

when he wrote about a vitamin salesman

926

00:40:13,110 --> 00:40:10,840

so scientists or the topical and it's a

927

00:40:15,510 --> 00:40:13,120

good subject because the issues were

928

00:40:19,020 --> 00:40:15,520

writing about oblique interest about

929

00:40:22,470 --> 00:40:19,030

child health and about issues that

930

00:40:24,390 --> 00:40:22,480

affect the public health issues so it's

931

00:40:26,340 --> 00:40:24,400

not like gossip it's not about politics

932

00:40:28,980 --> 00:40:26,350

so it's a good

933

00:40:32,820 --> 00:40:28,990

ample which hopefully may lead to a

934

00:40:34,920 --> 00:40:32,830

change in the law but if not the only

935

00:40:37,860 --> 00:40:34,930

example an edgy set goes beyond science

936

00:40:39,150 --> 00:40:37,870

and it affects journalist whatever they

937

00:40:42,350 --> 00:40:39,160

write about and as I said earlier

938

00:40:44,760 --> 00:40:42,360

wherever they like about it absolutely

939

00:40:47,520 --> 00:40:44,770

well Simon we're very much looking

940

00:40:49,740 --> 00:40:47,530

forward to having you in Australia as a

941

00:40:51,870 --> 00:40:49,750

guest of the Adelaide Festival of ideas

942

00:40:54,720 --> 00:40:51,880

now you're doing a lecture in Adelaide

943

00:40:56,730 --> 00:40:54,730

on the twelfth of July and then you'll

944

00:40:59,660 --> 00:40:56,740

be popping over to Sydney to give a

945

00:41:02,760 --> 00:40:59,670

special lecture on the fifteenth of July

946

00:41:04,050 --> 00:41:02,770

and lists can yeah I'm good on the other

947

00:41:05,550 --> 00:41:04,060

laughing I'm giving about Josh laughing

948

00:41:10,080 --> 00:41:05,560

I'm taking part in three different

949

00:41:11,970 --> 00:41:10,090

panels I think my precious is the panel

950

00:41:13,860 --> 00:41:11,980

sessions are very much sort of

951  
00:41:16,050 --> 00:41:13,870  
brainstorming of ideas so we'll be

952  
00:41:19,740 --> 00:41:16,060  
looking at evolution in a general sense

953  
00:41:22,560 --> 00:41:19,750  
so where the big ideas come from we'll

954  
00:41:24,870 --> 00:41:22,570  
be looking at of drugs and

955  
00:41:26,310 --> 00:41:24,880  
pharmaceuticals in one session and then

956  
00:41:28,260 --> 00:41:26,320  
I'll be delivering one leg from

957  
00:41:30,360 --> 00:41:28,270  
particular on alternative medicine and

958  
00:41:31,770 --> 00:41:30,370  
trickle treatment and then I becoming

959  
00:41:33,690 --> 00:41:31,780  
over Sydney which would be great fun

960  
00:41:36,450 --> 00:41:33,700  
make Sydney for 45 years now and really

961  
00:41:39,240 --> 00:41:36,460  
before coming back and be talking about

962  
00:41:41,280 --> 00:41:39,250  
alternative medicine and skepticism

963  
00:41:43,350 --> 00:41:41,290

again when i get to sydney well

964

00:41:44,940 --> 00:41:43,360

fantastic well thank you very much for

965

00:41:46,350 --> 00:41:44,950

your time today Simon and we look very

966

00:41:49,320 --> 00:41:46,360

much forward to seeing you in a couple

967

00:41:54,750 --> 00:41:49,330

of weeks in Australia I'm looking 42

968

00:41:57,840 --> 00:41:54,760

I'll see you soon take care this is

969

00:42:00,390 --> 00:41:57,850

brian dunning from sceptile calm skep

970

00:42:02,460 --> 00:42:00,400

tide is a short weekly podcast taking a

971

00:42:05,550 --> 00:42:02,470

critical look at the pseudo-sciences

972

00:42:07,650 --> 00:42:05,560

that infect popular culture whenever I'm

973

00:42:16,720 --> 00:42:07,660

not locked in the recording studio I'm

974

00:42:22,430 --> 00:42:20,000

yellow that welcome to the token skeptic

975

00:42:24,620 --> 00:42:22,440

book review with our first book 59

976  
00:42:26,809 --> 00:42:24,630  
seconds think a little change a lot

977  
00:42:30,950 --> 00:42:26,819  
you'll be able to see the video of this

978  
00:42:34,579 --> 00:42:30,960  
review next week featured at WWE talkin

979  
00:42:35,990 --> 00:42:34,589  
skeptic org professor richard wiseman is

980  
00:42:38,390 --> 00:42:36,000  
based at the University of Hartford

981  
00:42:40,490 --> 00:42:38,400  
share in the UK and has gained an

982  
00:42:42,370 --> 00:42:40,500  
international reputation for research

983  
00:42:45,440 --> 00:42:42,380  
into quirky areas of psychology

984  
00:42:49,520 --> 00:42:45,450  
including deception humor luck and the

985  
00:42:52,010 --> 00:42:49,530  
paranormal the book 59 seconds think a

986  
00:42:54,319 --> 00:42:52,020  
little change a lot is very appealing

987  
00:42:57,890 --> 00:42:54,329  
it's only sold in the UK at the moment

988  
00:43:00,440 --> 00:42:57,900

for about 12 pounds I got mine 47 pounds

989

00:43:03,260 --> 00:43:00,450

by an online site which worked out at

990

00:43:05,299 --> 00:43:03,270

around about 14 Australian dollars mine

991

00:43:08,359 --> 00:43:05,309

even arrived without a hidden tarantula

992

00:43:11,539 --> 00:43:08,369

in terms of appearance it weighs in at a

993

00:43:13,579 --> 00:43:11,549

solid 358 pages including the detailed

994

00:43:15,559 --> 00:43:13,589

footnotes at the end as a bright

995

00:43:17,120 --> 00:43:15,569

appealing cover and is not that

996

00:43:19,520 --> 00:43:17,130

dissimilar in construction to his

997

00:43:22,700 --> 00:43:19,530

earlier work quirkology the curious

998

00:43:24,710 --> 00:43:22,710

science of everyday lives peel back that

999

00:43:26,660 --> 00:43:24,720

bright cover and you'll discover that 59

1000

00:43:29,329 --> 00:43:26,670

seconds has even more in common with

1001

00:43:31,339 --> 00:43:29,339

quirkology dr. Wiseman has become rather

1002

00:43:33,470 --> 00:43:31,349

good at putting as much information as

1003

00:43:35,660 --> 00:43:33,480

he possibly can into these two recent

1004

00:43:37,520 --> 00:43:35,670

books whenever I've talked about his

1005

00:43:39,380 --> 00:43:37,530

research to others I usually just

1006

00:43:41,150 --> 00:43:39,390

recommend quirkology rather than

1007

00:43:43,490 --> 00:43:41,160

tracking down every paper is authored

1008

00:43:45,890 --> 00:43:43,500

from psychology of deception to power

1009

00:43:49,130 --> 00:43:45,900

psychology to personality and luck and

1010

00:43:50,510 --> 00:43:49,140

so forth now I originally thought that

1011

00:43:52,700 --> 00:43:50,520

this was going to be more like two of

1012

00:43:55,849 --> 00:43:52,710

his earlier works which funnily enough

1013

00:43:57,559 --> 00:43:55,859

are self-help books since this is a book

1014

00:44:00,289 --> 00:43:57,569

that challenges many of the claims of

1015

00:44:02,150 --> 00:44:00,299

the self-help genre I guess the best way

1016

00:44:05,750 --> 00:44:02,160

to beat the fruits is to join them and

1017

00:44:07,760 --> 00:44:05,760

be tastier and more nutritious there's

1018

00:44:10,160 --> 00:44:07,770

the luck factor which investigated how

1019

00:44:12,440 --> 00:44:10,170

good and bad luck result from measurable

1020

00:44:14,690 --> 00:44:12,450

habits for example lucky people by

1021

00:44:16,460 --> 00:44:14,700

expecting good luck might expend more

1022

00:44:18,740 --> 00:44:16,470

efforts in their endeavors resulting in

1023

00:44:21,530 --> 00:44:18,750

more success reinforcing their belief in

1024

00:44:23,420 --> 00:44:21,540

good luck there is also did you spot the

1025

00:44:25,609 --> 00:44:23,430

gorilla how to recognize hidden

1026  
00:44:27,710 --> 00:44:25,619  
opportunities in your life which applies

1027  
00:44:29,569 --> 00:44:27,720  
the metaphor for those priceless ideas

1028  
00:44:29,900 --> 00:44:29,579  
and opportunities which seem obvious in

1029  
00:44:32,660 --> 00:44:29,910  
hind

1030  
00:44:34,849 --> 00:44:32,670  
side to one's business life and home

1031  
00:44:37,520 --> 00:44:34,859  
it's the structure of the book which

1032  
00:44:39,289 --> 00:44:37,530  
might throw you now this isn't the luck

1033  
00:44:41,720 --> 00:44:39,299  
factor or did you spot the griller

1034  
00:44:43,460 --> 00:44:41,730  
whilst every research discussion goes

1035  
00:44:46,549 --> 00:44:43,470  
for no more than five to six pages

1036  
00:44:48,770 --> 00:44:46,559  
there's a 59 seconds or less tip which

1037  
00:44:51,289 --> 00:44:48,780  
features nearly every ten pages also

1038  
00:44:53,359 --> 00:44:51,299

that's mixed in with some quizzes some

1039

00:44:55,640 --> 00:44:53,369

charts to fill in a few four times

1040

00:44:57,910 --> 00:44:55,650

fifteen second tips and text boxes and

1041

00:45:00,500 --> 00:44:57,920

it's all neatly divided into chapters

1042

00:45:02,450 --> 00:45:00,510

it's a very practical book that you

1043

00:45:04,819 --> 00:45:02,460

encouraged to write in much like is

1044

00:45:07,130 --> 00:45:04,829

earlier to self-help books but it's a

1045

00:45:09,500 --> 00:45:07,140

lot thicker I guess the format of a

1046

00:45:11,720 --> 00:45:09,510

self-help book is one I associated with

1047

00:45:13,730 --> 00:45:11,730

a less solid nonfiction research book

1048

00:45:14,900 --> 00:45:13,740

appearance but you certainly can't say

1049

00:45:16,370 --> 00:45:14,910

that you're not getting your money's

1050

00:45:18,500 --> 00:45:16,380

worth with how much research and

1051  
00:45:21,440 --> 00:45:18,510  
activities which are stacked in bunches

1052  
00:45:22,730 --> 00:45:21,450  
throughout of course being the professor

1053  
00:45:25,220 --> 00:45:22,740  
of the public understanding of

1054  
00:45:27,500 --> 00:45:25,230  
psychology in the UK he has a lot of

1055  
00:45:29,500 --> 00:45:27,510  
opportunities to conduct tests and trial

1056  
00:45:32,120 --> 00:45:29,510  
them many of these appear in the book

1057  
00:45:34,130 --> 00:45:32,130  
romance made simple in chapter 7

1058  
00:45:36,650 --> 00:45:34,140  
relationships drew upon the research

1059  
00:45:38,839 --> 00:45:36,660  
done on his quirkology website a large

1060  
00:45:41,870 --> 00:45:38,849  
scale online survey that examined the

1061  
00:45:45,049 --> 00:45:41,880  
psychology of romantic gestures another

1062  
00:45:47,359 --> 00:45:45,059  
in chapter 2 persuasion tested how much

1063  
00:45:49,190 --> 00:45:47,369

money people donate to a perfect charity

1064

00:45:52,069 --> 00:45:49,200

box which was done in conjunction with

1065

00:45:53,870 --> 00:45:52,079

borders book stores across the UK dr.

1066

00:45:56,569 --> 00:45:53,880

Wiseman regularly pops out new quizzes

1067

00:45:58,519 --> 00:45:56,579

activities and studies online I wouldn't

1068

00:46:00,710 --> 00:45:58,529

be surprised if many listeners have also

1069

00:46:03,079 --> 00:46:00,720

enjoyed his kind of supernatural version

1070

00:46:05,660 --> 00:46:03,089

of the children's game wheres wally or

1071

00:46:08,150 --> 00:46:05,670

where's Richard which was played last

1072

00:46:09,859 --> 00:46:08,160

month by a Twitter and on his blog to

1073

00:46:12,829 --> 00:46:09,869

try at the psychic abilities of his

1074

00:46:14,690 --> 00:46:12,839

readers when reading 59 seconds I quite

1075

00:46:16,069 --> 00:46:14,700

enjoy discovering how many little tips

1076

00:46:18,260 --> 00:46:16,079

for happiness or encouraging

1077

00:46:20,089 --> 00:46:18,270

socialization have been recognized by

1078

00:46:22,730 --> 00:46:20,099

myself or others in casual discussion

1079

00:46:25,700 --> 00:46:22,740

and are either agreed or disagreed upon

1080

00:46:28,670 --> 00:46:25,710

by scientific research for example

1081

00:46:30,620 --> 00:46:28,680

episode 115 of the geologic podcast

1082

00:46:33,680 --> 00:46:30,630

talked about how socialising whilst

1083

00:46:36,019 --> 00:46:33,690

walking a dog seems so much easier there

1084

00:46:38,529 --> 00:46:36,029

in chapter 6 on stress with a heading

1085

00:46:41,059 --> 00:46:38,539

pause for thought research shows that

1086

00:46:42,950 --> 00:46:41,069

most researchers acknowledge that when

1087

00:46:43,970 --> 00:46:42,960

the most important factors centers on

1088

00:46:46,730 --> 00:46:43,980

the social benefit

1089

00:46:48,830 --> 00:46:46,740

of owning a dog a large body of research

1090

00:46:50,390 --> 00:46:48,840

has demonstrated that spending time with

1091

00:46:52,099 --> 00:46:50,400

other people is a major source of

1092

00:46:54,080 --> 00:46:52,109

happiness and health and dogs

1093

00:46:56,090 --> 00:46:54,090

inadvertent of an effective ability to

1094

00:46:58,130 --> 00:46:56,100

bring people together is likely to play

1095

00:47:00,680 --> 00:46:58,140

a major role in promoting the well-being

1096

00:47:02,950 --> 00:47:00,690

of their owners however some of the

1097

00:47:06,680 --> 00:47:02,960

comments did seem a little dubious in

1098

00:47:08,870 --> 00:47:06,690

chapter 9 parenting one of the in 59

1099

00:47:10,970 --> 00:47:08,880

seconds or less summaries claimed that

1100

00:47:12,380 --> 00:47:10,980

research shows that people with surnames

1101  
00:47:14,150 --> 00:47:12,390  
beginning with the letter towards the

1102  
00:47:16,700 --> 00:47:14,160  
start of the alphabet are more

1103  
00:47:19,040 --> 00:47:16,710  
successful life and traditional names

1104  
00:47:20,810 --> 00:47:19,050  
with royal associations are seen as

1105  
00:47:23,240 --> 00:47:20,820  
particularly successful and intelligent

1106  
00:47:25,849 --> 00:47:23,250  
well I wondered if that was also true

1107  
00:47:28,340 --> 00:47:25,859  
across cultures some of the research is

1108  
00:47:31,640 --> 00:47:28,350  
still being done a study in chapter 10

1109  
00:47:34,370 --> 00:47:31,650  
on personality looked at the 2d 4 D

1110  
00:47:36,980 --> 00:47:34,380  
ratio of fingers or the casanova effect

1111  
00:47:39,770 --> 00:47:36,990  
which was conducted by long distance for

1112  
00:47:42,650 --> 00:47:39,780  
dr. Wiseman using psych ops Jim under

1113  
00:47:45,710 --> 00:47:42,660

down on 37 of the best-known leading men

1114

00:47:47,960 --> 00:47:45,720

and 9 comedians if the phenomenon is

1115

00:47:51,140 --> 00:47:47,970

genuine it might be able to tell us more

1116

00:47:53,720 --> 00:47:51,150

about the magic x factor or XY factor of

1117

00:47:56,300 --> 00:47:53,730

masculine to feminine psychological and

1118

00:47:58,220 --> 00:47:56,310

physical abilities finally those of you

1119

00:48:01,030 --> 00:47:58,230

who follow richard wiseman on Twitter or

1120

00:48:04,790 --> 00:48:01,040

check out his new site for the book at

1121

00:48:05,960 --> 00:48:04,800

wwt nine seconds BDS will know that

1122

00:48:08,720 --> 00:48:05,970

there's additional features that

1123

00:48:11,150 --> 00:48:08,730

complement the book there's the 59

1124

00:48:13,849 --> 00:48:11,160

seconds tips which so far include the

1125

00:48:16,430 --> 00:48:13,859

power of purchases and glasses and

1126  
00:48:17,960 --> 00:48:16,440  
mirrors one on how buying experiences is

1127  
00:48:19,970 --> 00:48:17,970  
better for once happiness than buying

1128  
00:48:22,190 --> 00:48:19,980  
goods and the influence that tall

1129  
00:48:24,410 --> 00:48:22,200  
glasses and a mirror in the kitchen can

1130  
00:48:26,510 --> 00:48:24,420  
have on a diet it's a very clever

1131  
00:48:28,630 --> 00:48:26,520  
advertisement for the book as it for

1132  
00:48:31,160 --> 00:48:28,640  
grants the useful advice and as expected

1133  
00:48:34,240 --> 00:48:31,170  
makes clear just how much research went

1134  
00:48:36,620 --> 00:48:34,250  
into each of the 59 seconds or less tips

1135  
00:48:38,840 --> 00:48:36,630  
don't forget that you can see the video

1136  
00:48:43,849 --> 00:48:38,850  
version of this book of you at my new

1137  
00:48:46,970 --> 00:48:43,859  
site wwn skeptic org starting from next

1138  
00:48:48,830 --> 00:48:46,980

week oh and if dr. Richard Wiseman is

1139

00:48:50,450 --> 00:48:48,840

listening to this podcast to hear one of

1140

00:48:53,390 --> 00:48:50,460

the very first reviews of his book

1141

00:48:57,300 --> 00:48:53,400

online he might let you know via his

1142

00:49:01,830 --> 00:48:57,310

website at WWF teen seconds be

1143

00:49:04,770 --> 00:49:01,840

or on his personal blog at WWE and

1144

00:49:06,870 --> 00:49:04,780

wordpress com you might comment how many

1145

00:49:27,980 --> 00:49:06,880

times he heard me make an allusion to it

1146

00:49:39,180 --> 00:49:30,769

let's all take this with a grain of salt

1147

00:49:42,200 --> 00:49:39,190

seas around ticket hello this is around

1148

00:49:44,640 --> 00:49:42,210

segev taking life with a grain of salt

1149

00:49:46,829 --> 00:49:44,650

anybody who actively supports a sports

1150

00:49:49,079 --> 00:49:46,839

club that knows the feeling the team on

1151

00:49:50,819 --> 00:49:49,089

the field unites the supporters often

1152

00:49:53,249 --> 00:49:50,829

dressed in apparel that identifies them

1153

00:49:55,799 --> 00:49:53,259

with a team when the team scores a goal

1154

00:49:57,150 --> 00:49:55,809

or a try or a six complete strangers

1155

00:49:59,430 --> 00:49:57,160

will hug and give each other high-fives

1156

00:50:01,620 --> 00:49:59,440

as if they've known each other since

1157

00:50:03,690 --> 00:50:01,630

kindergarten at the end of the game

1158

00:50:05,370 --> 00:50:03,700

should support his encounter supporters

1159

00:50:07,589 --> 00:50:05,380

of the other team that will together

1160

00:50:10,620 --> 00:50:07,599

mock them or engage in friendly or not

1161

00:50:12,960 --> 00:50:10,630

so friendly banter in some cases they

1162

00:50:14,579 --> 00:50:12,970

might engage in physical fighting no

1163

00:50:16,579 --> 00:50:14,589

doubt with the aim of convincing the

1164

00:50:19,140 --> 00:50:16,589

other fans to change their allegiance

1165

00:50:21,539 --> 00:50:19,150

this kind of identification with a group

1166

00:50:23,249 --> 00:50:21,549

is not limited to sports of course it

1167

00:50:25,529 --> 00:50:23,259

can be seen in the pride that people

1168

00:50:27,630 --> 00:50:25,539

feel about their country waving flags or

1169

00:50:29,370 --> 00:50:27,640

national days and often proclaiming

1170

00:50:32,759 --> 00:50:29,380

there's to be the best country in the

1171

00:50:34,170 --> 00:50:32,769

world this is the time to pause and say

1172

00:50:36,239 --> 00:50:34,180

that Australia really is the best

1173

00:50:40,519 --> 00:50:36,249

country in the world into the rest of

1174

00:50:46,349 --> 00:50:43,890

examples of group loyalty abound in most

1175

00:50:49,470 --> 00:50:46,359

cases people see loyalty to a group as a

1176  
00:50:51,960 --> 00:50:49,480  
positive a virtue more importantly what

1177  
00:50:54,059 --> 00:50:51,970  
is seen as disloyalty to a group is

1178  
00:50:57,720 --> 00:50:54,069  
frowned upon and often punished in

1179  
00:50:59,220 --> 00:50:57,730  
various ways the examples of sports in

1180  
00:51:01,589 --> 00:50:59,230  
national background do not usually

1181  
00:51:03,359 --> 00:51:01,599  
involve a moral judgment but there are

1182  
00:51:05,370 --> 00:51:03,369  
many groups that require their members

1183  
00:51:08,039 --> 00:51:05,380  
whether official or unofficial to share

1184  
00:51:11,009 --> 00:51:08,049  
some values or ideas the most obvious

1185  
00:51:12,509 --> 00:51:11,019  
such group is a political party as a

1186  
00:51:15,479 --> 00:51:12,519  
political parties supposed to represent

1187  
00:51:17,670 --> 00:51:15,489  
ideology the expectation might be that

1188  
00:51:20,220 --> 00:51:17,680

as a party's ideology inevitably changes

1189

00:51:22,950 --> 00:51:20,230

over time so will voters and members

1190

00:51:25,529 --> 00:51:22,960

change their allegiance however that is

1191

00:51:27,809 --> 00:51:25,539

rarely the case voting patterns in

1192

00:51:28,950 --> 00:51:27,819

Australia show quite clearly that most

1193

00:51:31,950 --> 00:51:28,960

people vote for the

1194

00:51:33,780 --> 00:51:31,960

party in every election it would be fair

1195

00:51:36,060 --> 00:51:33,790

to assume that they are loyal to the

1196

00:51:39,300 --> 00:51:36,070

party rather than agree with all these

1197

00:51:41,460 --> 00:51:39,310

policies in the US where most people are

1198

00:51:43,320 --> 00:51:41,470

registered members of a party there is

1199

00:51:45,089 --> 00:51:43,330

very little change in party membership

1200

00:51:47,010 --> 00:51:45,099

though it is not clear what level of

1201

00:51:50,010 --> 00:51:47,020

adherence there is to party membership

1202

00:51:51,720 --> 00:51:50,020

on election days it is fairly easy to

1203

00:51:54,480 --> 00:51:51,730

guess how evolution would have made

1204

00:51:56,730 --> 00:51:54,490

humans prone to group loyalty since

1205

00:51:58,680 --> 00:51:56,740

humans are social animals being able to

1206

00:52:01,130 --> 00:51:58,690

rely on support from others members of

1207

00:52:04,230 --> 00:52:01,140

the group is paramount to survival as

1208

00:52:05,700 --> 00:52:04,240

humans evolved he would be surprising if

1209

00:52:08,579 --> 00:52:05,710

they hadn't evolved a freeloader

1210

00:52:11,220 --> 00:52:08,589

detection mechanism suckers spend a lot

1211

00:52:13,020 --> 00:52:11,230

of energy on lost causes so some level

1212

00:52:15,599 --> 00:52:13,030

of sucker proofing would have been an

1213

00:52:17,609 --> 00:52:15,609

important development with suckers being

1214

00:52:19,530 --> 00:52:17,619

less common reciprocity would have

1215

00:52:21,270 --> 00:52:19,540

become a major factor in who gets the

1216

00:52:24,630 --> 00:52:21,280

support of the group and who doesn't and

1217

00:52:25,859 --> 00:52:24,640

group loyalty would have been born of

1218

00:52:27,750 --> 00:52:25,869

course this is a simplistic

1219

00:52:29,700 --> 00:52:27,760

representation of both evolution and

1220

00:52:31,740 --> 00:52:29,710

group loyalty but he does provide a

1221

00:52:33,240 --> 00:52:31,750

broad brush view of how the tendency

1222

00:52:36,930 --> 00:52:33,250

could have become part of what it means

1223

00:52:40,020 --> 00:52:36,940

to be human in his book blindness author

1224

00:52:41,849 --> 00:52:40,030

Josie saramago describes a situation in

1225

00:52:44,820 --> 00:52:41,859

which people find themselves in separate

1226

00:52:46,980 --> 00:52:44,830

rooms in an isolated hospital and as

1227

00:52:49,079 --> 00:52:46,990

resources become scarce the different

1228

00:52:50,250 --> 00:52:49,089

rooms become separate groups that fight

1229

00:52:53,160 --> 00:52:50,260

each other in a manner that is

1230

00:52:55,320 --> 00:52:53,170

astonishingly brutal in the context of

1231

00:52:58,170 --> 00:52:55,330

fighting for survival that does not seem

1232

00:52:59,820 --> 00:52:58,180

so incredible but Saramago splott puts

1233

00:53:02,370 --> 00:52:59,830

the characters in different rooms in a

1234

00:53:04,650 --> 00:53:02,380

completely arbitrary manner as all those

1235

00:53:07,620 --> 00:53:04,660

people are blind and they scramble into

1236

00:53:09,960 --> 00:53:07,630

rooms without any thought or plan many

1237

00:53:11,790 --> 00:53:09,970

people I know who read the book thought

1238

00:53:13,950 --> 00:53:11,800

that despite the obviously fictitious

1239

00:53:16,140 --> 00:53:13,960

plot the element of loyalty to an

1240

00:53:19,620 --> 00:53:16,150

arbitrarily formed group was completely

1241

00:53:21,720 --> 00:53:19,630

realistic while blindness is just a

1242

00:53:24,180 --> 00:53:21,730

novel the behavior of people living

1243

00:53:26,099 --> 00:53:24,190

under authoritarian regimes has shown

1244

00:53:27,599 --> 00:53:26,109

that in the face of pressure to behave

1245

00:53:31,230 --> 00:53:27,609

as the rest of the group expect one to

1246

00:53:33,089 --> 00:53:31,240

most people would comply while it may be

1247

00:53:34,920 --> 00:53:33,099

possible to justify a blind group

1248

00:53:37,230 --> 00:53:34,930

loyalty under the Nazi regime for

1249

00:53:39,450 --> 00:53:37,240

example as being the result of fear of

1250

00:53:40,710 --> 00:53:39,460

retribution the same cannot be said of

1251

00:53:42,270 --> 00:53:40,720

the students participate

1252

00:53:45,240 --> 00:53:42,280

dating in the third way of teaching

1253

00:53:49,170 --> 00:53:45,250

experiment by ron jones in california in

1254

00:53:52,380 --> 00:53:49,180

1969 in that experiment later depicted

1255

00:53:54,750 --> 00:53:52,390

in the 1981 movie the wave students were

1256

00:53:56,310 --> 00:53:54,760

arbitrarily split into groups with one

1257

00:53:58,380 --> 00:53:56,320

group being put in charge of the other

1258

00:54:00,870 --> 00:53:58,390

and given free reign to do whatever they

1259

00:54:03,030 --> 00:54:00,880

wanted to members of the other group the

1260

00:54:04,980 --> 00:54:03,040

patterns of behavior were disturbing as

1261

00:54:07,650 --> 00:54:04,990

the dominant group mistreated the other

1262

00:54:09,240 --> 00:54:07,660

group in an extraordinary way but

1263

00:54:11,100 --> 00:54:09,250

another obvious development was that

1264

00:54:13,200 --> 00:54:11,110

both groups quickly became cohesive and

1265

00:54:14,880 --> 00:54:13,210

developed some internal structures that

1266

00:54:17,880 --> 00:54:14,890

were unique to each a group and helped

1267

00:54:19,620 --> 00:54:17,890

it create a group identity listeners

1268

00:54:21,540 --> 00:54:19,630

might be intrigued as to what the

1269

00:54:23,580 --> 00:54:21,550

skeptical angle might be for looking at

1270

00:54:26,190 --> 00:54:23,590

screw loyalty since it is evidently a

1271

00:54:28,050 --> 00:54:26,200

natural behavior my answer would start

1272

00:54:30,450 --> 00:54:28,060

by saying that there are good reasons to

1273

00:54:32,580 --> 00:54:30,460

suspect that believing claims made by

1274

00:54:35,480 --> 00:54:32,590

figures of personal authority to be true

1275

00:54:37,830 --> 00:54:35,490

regardless of evidence is also natural

1276

00:54:39,660 --> 00:54:37,840

there are good potential evolutionary

1277

00:54:41,880 --> 00:54:39,670

explanations for belief in general and

1278

00:54:44,190 --> 00:54:41,890

faith in particular and Richard Dawkins

1279

00:54:47,340 --> 00:54:44,200

claims that religion is a side effect of

1280

00:54:49,890 --> 00:54:47,350

this evolved trade despite faith being

1281

00:54:52,260 --> 00:54:49,900

almost universal and probably natural we

1282

00:54:54,660 --> 00:54:52,270

skeptics do not accept it we strive to

1283

00:54:56,550 --> 00:54:54,670

change the way people think hoping to

1284

00:54:59,100 --> 00:54:56,560

instill critical thinking in as much of

1285

00:55:00,840 --> 00:54:59,110

society as possible even though most of

1286

00:55:03,510 --> 00:55:00,850

us would recognize that we can only make

1287

00:55:05,700 --> 00:55:03,520

small steps in that direction in the

1288

00:55:07,710 --> 00:55:05,710

same way the fact that group loyalty is

1289

00:55:09,660 --> 00:55:07,720

natural behavior does not mean that it

1290

00:55:13,320 --> 00:55:09,670

is good or even acceptable to an

1291

00:55:15,960 --> 00:55:13,330

inquiring mind in his 1998 article a

1292

00:55:19,110 --> 00:55:15,970

critique of group loyalty philosopher

1293

00:55:21,480 --> 00:55:19,120

Laura Calhoun writes in spite of the

1294

00:55:23,700 --> 00:55:21,490

positive connotations of loyalty the

1295

00:55:25,980 --> 00:55:23,710

concept is itself morally neutral and

1296

00:55:28,040 --> 00:55:25,990

remaining loyal to a group whose values

1297

00:55:31,920 --> 00:55:28,050

one does not share is irrational I

1298

00:55:33,420 --> 00:55:31,930

couldn't agree more moreover I suggest

1299

00:55:35,610 --> 00:55:33,430

that as skeptics we should be very

1300

00:55:37,290 --> 00:55:35,620

suspicious of group behavior or any

1301  
00:55:39,450 --> 00:55:37,300  
signs that people behave or make

1302  
00:55:40,830 --> 00:55:39,460  
decisions based on what they're supposed

1303  
00:55:43,950 --> 00:55:40,840  
to because of their group belonging

1304  
00:55:45,810 --> 00:55:43,960  
because of loyalty to their group the

1305  
00:55:48,270 --> 00:55:45,820  
most obvious cases are as mentioned

1306  
00:55:49,920 --> 00:55:48,280  
earlier in politics but we should also

1307  
00:55:52,800 --> 00:55:49,930  
be very cautious not to play the game

1308  
00:55:53,870 --> 00:55:52,810  
ourselves skeptical groups are important

1309  
00:55:55,370 --> 00:55:53,880  
to many of us

1310  
00:55:56,780 --> 00:55:55,380  
and I'm not suggesting we harm such

1311  
00:55:58,840 --> 00:55:56,790  
groups in order to show we do not

1312  
00:56:01,340 --> 00:55:58,850  
participate in the group loyalty game

1313  
00:56:03,110 --> 00:56:01,350

but if the group we belong to or The

1314

00:56:05,180 --> 00:56:03,120

Skeptical movement in general is doing

1315

00:56:07,160 --> 00:56:05,190

something we do not agree with it is our

1316

00:56:15,760 --> 00:56:07,170

duty to follow our own logic and

1317

00:56:26,600 --> 00:56:19,190

join us now for drinking skeptically in

1318

00:56:32,210 --> 00:56:26,610

the think tank well cheers everybody

1319

00:56:34,820 --> 00:56:32,220

once again in the think tank glasses are

1320

00:56:36,860 --> 00:56:34,830

flying everywhere here we are in our

1321

00:56:38,270 --> 00:56:36,870

favorite Club once again just waiting

1322

00:56:39,770 --> 00:56:38,280

for the bus announcements because I know

1323

00:56:41,000 --> 00:56:39,780

that our listeners just love to hear the

1324

00:56:43,940 --> 00:56:41,010

pass announcements when we're here doing

1325

00:56:46,990 --> 00:56:43,950

the thing tank and also before we start

1326  
00:56:50,480 --> 00:56:47,000  
is a new feature new healing method

1327  
00:56:52,580 --> 00:56:50,490  
suggested to us by Darren who shouted us

1328  
00:56:54,890 --> 00:56:52,590  
the drinks last time yes he has

1329  
00:56:56,210 --> 00:56:54,900  
suggested that if listeners want to send

1330  
00:56:57,590 --> 00:56:56,220  
us a little bit of money to cover a

1331  
00:57:00,740 --> 00:56:57,600  
round of drinks we could send them

1332  
00:57:04,310 --> 00:57:00,750  
remote healing you see we would drink to

1333  
00:57:06,340 --> 00:57:04,320  
their health all right and we're not

1334  
00:57:10,130 --> 00:57:06,350  
sure what to call it may be toast ology

1335  
00:57:14,150 --> 00:57:10,140  
solid or something like that so if you

1336  
00:57:17,420 --> 00:57:14,160  
send us via the paypal button on our www

1337  
00:57:20,000 --> 00:57:17,430  
60 votes toasting Don TV remote toasting

1338  
00:57:22,520 --> 00:57:20,010

and say this is for a round of drinks

1339

00:57:24,470 --> 00:57:22,530

for the think tank we will toast your

1340

00:57:26,150 --> 00:57:24,480

health your good luck or anything else

1341

00:57:27,800 --> 00:57:26,160

you'd like us to toast joining me

1342

00:57:30,530 --> 00:57:27,810

tonight in the think tank in our

1343

00:57:33,290 --> 00:57:30,540

favorite club is dr. Richie hi Richard I

1344

00:57:37,460 --> 00:57:33,300

Dr Ng young I'm still getting over this

1345

00:57:39,170 --> 00:57:37,470

Richard um fluey coldy thingy I had to

1346

00:57:40,790 --> 00:57:39,180

get over it before next week i do i'm

1347

00:57:44,960 --> 00:57:40,800

flying out the town next week i should

1348

00:57:49,700 --> 00:57:44,970

get over by them hello Diane well i'm

1349

00:57:52,490 --> 00:57:49,710

still getting awesome we have new son

1350

00:57:54,140 --> 00:57:52,500

member john benim oh hello Joe I know

1351

00:57:56,210 --> 00:57:54,150

it's good to see you thank you for

1352

00:57:58,670 --> 00:57:56,220

coming along all the way across town of

1353

00:58:00,170 --> 00:57:58,680

course yes I too have been spending most

1354

00:58:01,670 --> 00:58:00,180

of the week recovering as anyone

1355

00:58:03,920 --> 00:58:01,680

listening to my twitter feed will know

1356

00:58:06,980 --> 00:58:03,930

and what's your twitter name it's joe

1357

00:58:10,790 --> 00:58:06,990

been hmoo state jo ven

1358

00:58:13,100 --> 00:58:10,800

hjm you good heavens I like to make

1359

00:58:15,740 --> 00:58:13,110

things complicated also joining us

1360

00:58:18,830 --> 00:58:15,750

tonight is Iran Sega from ah the famous

1361

00:58:21,830 --> 00:58:18,840

a grain of salt pirated hiya Ron and

1362

00:58:25,040 --> 00:58:21,840

zone member amanda rose hi Amanda hello

1363

00:58:27,470 --> 00:58:25,050

now Amanda Iran and I will all be going

1364

00:58:30,020 --> 00:58:27,480

to town next week me and you must be

1365

00:58:33,820 --> 00:58:30,030

well by then because otherwise you'll

1366

00:58:38,870 --> 00:58:33,830

have to find alternative accommodation

1367

00:58:40,490 --> 00:58:38,880

I'm not sharing a room alright well I

1368

00:58:42,109 --> 00:58:40,500

just knock the microphone I'm so excited

1369

00:58:44,090 --> 00:58:42,119

to go to town I'll see what I can do

1370

00:58:45,830 --> 00:58:44,100

until then now a quick few snippets

1371

00:58:48,530 --> 00:58:45,840

before we get into the more interesting

1372

00:58:50,180 --> 00:58:48,540

things listen to Peter writes to me and

1373

00:58:52,780 --> 00:58:50,190

says are you aware that there was a

1374

00:58:56,750 --> 00:58:52,790

fellow by the name of Richard Saunders

1375

00:59:01,400 --> 00:58:56,760

1613 to 1692 who was a famous astrologer

1376

00:59:03,350 --> 00:59:01,410

and mole mappa mole mapper you see you

1377

00:59:06,800 --> 00:59:03,360

same ol Murph imagine what do you mean

1378

00:59:09,230 --> 00:59:06,810

would you care to extrapolate remove

1379

00:59:11,650 --> 00:59:09,240

your shirt and you map the moles on your

1380

00:59:14,359 --> 00:59:11,660

skin and what do you deduce from that

1381

00:59:16,040 --> 00:59:14,369

heaven mam'selle enough so you marry me

1382

00:59:18,440 --> 00:59:16,050

to the Stars or something like can I

1383

00:59:21,140 --> 00:59:18,450

don't dance yeah cannot maybe that's

1384

00:59:23,630 --> 00:59:21,150

what so there we are actually you know

1385

00:59:25,870 --> 00:59:23,640

this makes them exactly as much sense as

1386

00:59:28,190 --> 00:59:25,880

iridology Zoomer haps it's just a

1387

00:59:29,960 --> 00:59:28,200

phrenology possibly yeah feeling the

1388

00:59:31,820 --> 00:59:29,970

lumps on your head the holes me here

1389

00:59:35,440 --> 00:59:31,830

just trying to see if possibly some

1390

00:59:39,380 --> 00:59:35,450

diagnostic now another listener modern

1391

00:59:42,890 --> 00:59:39,390

rights and asks a question maybe you dr.

1392

00:59:46,340 --> 00:59:42,900

AG could um could answer briefly us

1393

00:59:50,150 --> 00:59:46,350

about pubmed pad grew up started again

1394

00:59:52,670 --> 00:59:50,160

asks about pubmed and Google Scholar

1395

00:59:54,590 --> 00:59:52,680

search engine are you familiar with that

1396

00:59:58,820 --> 00:59:54,600

can you give so Ellison is a quick

1397

01:00:02,620 --> 00:59:58,830

overview of them oh well pubmed is the

1398

01:00:04,790 --> 01:00:02,630

National Institute of Health list of

1399

01:00:06,080 --> 01:00:04,800

biologicals articles that have been

1400

01:00:09,650 --> 01:00:06,090

published in the peer-reviewed

1401

01:00:13,040 --> 01:00:09,660

literature and it mostly covers life

1402

01:00:14,450 --> 01:00:13,050

sciences so Joe knows about it too so

1403

01:00:15,650 --> 01:00:14,460

Joe and I use it all the time in our

1404

01:00:17,840 --> 01:00:15,660

work if you want to search for

1405

01:00:19,910 --> 01:00:17,850

information that's been peer review

1406

01:00:20,690 --> 01:00:19,920

published then you would usually go to

1407

01:00:24,849 --> 01:00:20,700

PubMed fur

1408

01:00:29,359 --> 01:00:24,859

and type in a topic or an author's name

1409

01:00:32,210 --> 01:00:29,369

and Google Scholar search also picks up

1410

01:00:33,740 --> 01:00:32,220

articles from PubMed from PubMed yes it

1411

01:00:37,790 --> 01:00:33,750

does so they're both good reliable

1412

01:00:40,760 --> 01:00:37,800

sources you'd say well that's reliable

1413

01:00:44,000 --> 01:00:40,770

as the information that you come up with

1414

01:00:45,349 --> 01:00:44,010

from them so yeah ne ne ne there there

1415

01:00:47,300 --> 01:00:45,359

much like any database there are

1416

01:00:49,849 --> 01:00:47,310

hundreds of databases out there that you

1417

01:00:53,450 --> 01:00:49,859

can access peer reviewed articles

1418

01:00:56,510 --> 01:00:53,460

whether it's some that's offered sanaa

1419

01:00:57,770 --> 01:00:56,520

medline and Google Google's one that's

1420

01:00:59,630 --> 01:00:57,780

probably the most accessible to people

1421

01:01:01,310 --> 01:00:59,640

because so many people use Google Earth

1422

01:01:03,349 --> 01:01:01,320

and it's easy for them to get to the

1423

01:01:06,230 --> 01:01:03,359

problem with a lot of those some

1424

01:01:08,510 --> 01:01:06,240

databases though is that you can find an

1425

01:01:09,620 --> 01:01:08,520

article that you want but these days

1426

01:01:11,630 --> 01:01:09,630

most people tend to look for things

1427

01:01:13,069 --> 01:01:11,640

online primarily and a lot of the time

1428

01:01:15,680 --> 01:01:13,079

to actually access the articles you

1429

01:01:17,660 --> 01:01:15,690

often need to be a paying member so

1430

01:01:19,819 --> 01:01:17,670

often you'd need to be you know if you

1431

01:01:22,160 --> 01:01:19,829

work in hospital or some sort of medical

1432

01:01:24,500 --> 01:01:22,170

area you may get free access through

1433

01:01:26,089 --> 01:01:24,510

your institution but if you are just an

1434

01:01:27,140 --> 01:01:26,099

individual out there how much taxes the

1435

01:01:29,300 --> 01:01:27,150

articles are can be quite difficult

1436

01:01:30,680 --> 01:01:29,310

unless you just pick yourself up and go

1437

01:01:32,690 --> 01:01:30,690

up to your library with your little

1438

01:01:35,240 --> 01:01:32,700

reference and own actually find the

1439

01:01:37,579 --> 01:01:35,250

article in the library itself so okay

1440

01:01:39,410 --> 01:01:37,589

yeah but the alternative thing you can

1441

01:01:41,270 --> 01:01:39,420

do to that Joe is you can twitter the

1442

01:01:43,520 --> 01:01:41,280

article you want and you'll probably get

1443

01:01:45,109 --> 01:01:43,530

it in about a minute and somebody across

1444

01:01:46,190 --> 01:01:45,119

the world who has access so this

1445

01:01:47,960 --> 01:01:46,200

happened to you today didn't know

1446

01:01:49,280 --> 01:01:47,970

yesterday no this happened to me well

1447

01:01:50,839 --> 01:01:49,290

actually did happen to me yesterday but

1448

01:01:52,790 --> 01:01:50,849

it happened to me a week and a half ago

1449

01:01:56,150 --> 01:01:52,800

as well when I was looking for the

1450

01:02:00,440 --> 01:01:56,160

Australian pharmacy journal article

1451  
01:02:02,930 --> 01:02:00,450  
about why homeopathy works and Scott

1452  
01:02:05,420 --> 01:02:02,940  
from Canada who writes the blog

1453  
01:02:06,680 --> 01:02:05,430  
science-based pharmacy wrote to me and

1454  
01:02:08,690 --> 01:02:06,690  
said do you have the article and my

1455  
01:02:11,420 --> 01:02:08,700  
university subscribes to that particular

1456  
01:02:14,270 --> 01:02:11,430  
journal but they about two months behind

1457  
01:02:17,420 --> 01:02:14,280  
in getting up to date online the journal

1458  
01:02:19,579 --> 01:02:17,430  
so I twitted it and somebody sent it to

1459  
01:02:22,640 --> 01:02:19,589  
me on email just really quick I mean

1460  
01:02:24,140 --> 01:02:22,650  
twitter is okay I mean I love to it well

1461  
01:02:25,970 --> 01:02:24,150  
a lot of people regarded as a waste of

1462  
01:02:27,829 --> 01:02:25,980  
time but for an information source if

1463  
01:02:29,240 --> 01:02:27,839

you need help or information on

1464

01:02:31,730 --> 01:02:29,250

something Twitter's fantastic now your

1465

01:02:33,940 --> 01:02:31,740

twitter name is dr. rachy it is yeah

1466

01:02:35,740 --> 01:02:33,950

yeah what would her name is Diane

1467

01:02:38,170 --> 01:02:35,750

the school Diane underscore we've heard

1468

01:02:41,109 --> 01:02:38,180

your twitter name around segev ever

1469

01:02:43,240 --> 01:02:41,119

leave her answer yet and you are I'm

1470

01:02:45,550 --> 01:02:43,250

floppy at mule floppy-eared meal on

1471

01:02:46,930 --> 01:02:45,560

Twitter and I'm just skipping zones on

1472

01:02:48,310 --> 01:02:46,940

twitter is fantastic and I give a

1473

01:02:49,569 --> 01:02:48,320

shout-out Richard to the people that

1474

01:02:52,690 --> 01:02:49,579

helped me yesterday because I was

1475

01:02:55,420 --> 01:02:52,700

actually called up by journalists who is

1476

01:02:57,190 --> 01:02:55,430

looking to do a story on the BCA Simon

1477

01:02:59,650 --> 01:02:57,200

seen chiropractic which we'll get to it

1478

01:03:00,940 --> 01:02:59,660

we'll get to that a moment yet and the

1479

01:03:02,890 --> 01:03:00,950

journalist was after the original

1480

01:03:05,380 --> 01:03:02,900

guardian article that appeared in August

1481

01:03:08,589 --> 01:03:05,390

2008 which of course has now been pulled

1482

01:03:10,750 --> 01:03:08,599

and I've sent out a call on Twitter and

1483

01:03:12,130 --> 01:03:10,760

I think within about maybe a minute

1484

01:03:14,620 --> 01:03:12,140

which was at the time it took me to read

1485

01:03:18,190 --> 01:03:14,630

check and refresh I had about 12 people

1486

01:03:20,800 --> 01:03:18,200

that had sent me links and or PDFs and

1487

01:03:22,270 --> 01:03:20,810

or emails so thanks very much to all

1488

01:03:23,740 --> 01:03:22,280

those people that did that because that

1489

01:03:25,030 --> 01:03:23,750

means that we can get it out to the

1490

01:03:26,950 --> 01:03:25,040

Australian media which is fantastic

1491

01:03:28,990 --> 01:03:26,960

there's very interesting things

1492

01:03:31,780 --> 01:03:29,000

happening there and a couple of other

1493

01:03:35,410 --> 01:03:31,790

quick items those people who listen to

1494

01:03:37,660 --> 01:03:35,420

the 365 days of astronomy podcast the

1495

01:03:39,700 --> 01:03:37,670

one that George her ab sings the theme

1496

01:03:45,370 --> 01:03:39,710

to and you talk about on Australian

1497

01:03:48,550 --> 01:03:45,380

television subtly one again yeah our

1498

01:03:50,500 --> 01:03:48,560

reporter Kylie Sturgis in fact as we're

1499

01:03:51,700 --> 01:03:50,510

recording on the first of the think

1500

01:03:54,849 --> 01:03:51,710

tanks being recorded on the first of

1501

01:03:57,309 --> 01:03:54,859

July and her episode is out today so you

1502

01:03:59,319 --> 01:03:57,319

can listen to Kylie Sturgis on the 365

1503

01:04:01,990 --> 01:03:59,329

days of astronomy podcast which also

1504

01:04:03,970 --> 01:04:02,000

reminds me dr. Richie and myself are

1505

01:04:07,599 --> 01:04:03,980

trying to organize ourselves to get over

1506

01:04:10,599 --> 01:04:07,609

to Perth we are in early August August

1507

01:04:13,150 --> 01:04:10,609

there ought to speak at the secular week

1508

01:04:14,859 --> 01:04:13,160

over there at the University of Western

1509

01:04:16,690 --> 01:04:14,869

Australia most likely American

1510

01:04:18,460 --> 01:04:16,700

University of Westminster and I think

1511

01:04:20,319 --> 01:04:18,470

it's all going very well we're just

1512

01:04:22,329 --> 01:04:20,329

trying to get ourselves a little bit of

1513

01:04:24,040 --> 01:04:22,339

funding to cover a affairs I mean we're

1514

01:04:25,390 --> 01:04:24,050

not bit we're not going to get paid

1515

01:04:27,190 --> 01:04:25,400

obviously for talking or being there

1516

01:04:29,620 --> 01:04:27,200

anything like that but we just need to

1517

01:04:31,480 --> 01:04:29,630

get there so if anybody's in Perth and

1518

01:04:34,690 --> 01:04:31,490

would like to help us you can contact

1519

01:04:36,309 --> 01:04:34,700

Kylie via our website or you can happily

1520

01:04:38,650 --> 01:04:36,319

donate to the skeptics island that will

1521

01:04:40,450 --> 01:04:38,660

help us to yeah which would be great to

1522

01:04:41,740 --> 01:04:40,460

go and do some lectures in Perth we're

1523

01:04:42,690 --> 01:04:41,750

really looking forward to it really one

1524

01:04:44,250 --> 01:04:42,700

I hope that

1525

01:04:47,700 --> 01:04:44,260

we can do this after Melbourne which was

1526

01:04:50,310 --> 01:04:47,710

so accepting all right I'm going to

1527

01:04:52,170 --> 01:04:50,320

throw open the floodgates to you first

1528

01:04:55,500 --> 01:04:52,180

of all dr. eat you with your item of

1529

01:04:57,390 --> 01:04:55,510

news well yes I think some people may

1530

01:04:59,130 --> 01:04:57,400

have heard about this but we are very

1531

01:05:01,980 --> 01:04:59,140

very proud at the zone to announce that

1532

01:05:04,020 --> 01:05:01,990

we have managed to wrangle Simon Singh

1533

01:05:06,510 --> 01:05:04,030

to come to Sydney he's going to be

1534

01:05:08,760 --> 01:05:06,520

giving a lecture a public lecture on the

1535

01:05:13,500 --> 01:05:08,770

fifteenth of july at the seymour centre

1536

01:05:15,270 --> 01:05:13,510

in sydney and that is hosted by sydney

1537

01:05:17,160 --> 01:05:15,280

ideas but Simon has been brought to

1538

01:05:19,589 --> 01:05:17,170

australia by the Adelaide Festival of

1539

01:05:23,069 --> 01:05:19,599

ideas so if you're in Adelaide he's also

1540

01:05:26,220 --> 01:05:23,079

doing a seminar as he mentioned earlier

1541

01:05:27,270 --> 01:05:26,230

in his interview on the sunday the 12th

1542

01:05:30,000 --> 01:05:27,280

and he's doing a couple of panels

1543

01:05:31,260 --> 01:05:30,010

throughout the weekend as well but if

1544

01:05:33,750 --> 01:05:31,270

you are in Sydney and you want to come

1545

01:05:36,180 --> 01:05:33,760

to the lecture if you go to the website

1546

01:05:38,400 --> 01:05:36,190

just do a search for Sydney ideas and

1547

01:05:40,099 --> 01:05:38,410

Simon Singh and you can get a special

1548

01:05:43,079 --> 01:05:40,109

skeptics discount price for tickets

1549

01:05:45,599 --> 01:05:43,089

normal price is twenty dollars and you

1550

01:05:46,920 --> 01:05:45,609

can get them for ten dollars if you go

1551

01:05:49,859 --> 01:05:46,930

to the website and type in the

1552

01:05:52,559 --> 01:05:49,869

promotional code skeptics 09 is that

1553

01:05:56,339 --> 01:05:52,569

skeptics with me the K and an S on hand

1554

01:05:58,710 --> 01:05:56,349

yes get a predicts 09 with a k you can

1555

01:06:00,510 --> 01:05:58,720

get tickets for ten dollars yeah so

1556

01:06:02,339 --> 01:06:00,520

we're very excited that Simon's been

1557

01:06:04,859 --> 01:06:02,349

able to come to see me so that's great

1558

01:06:06,870 --> 01:06:04,869

yeah yeah and it was it was nice to her

1559

01:06:08,819 --> 01:06:06,880

it was a nice that you were able to

1560

01:06:09,839 --> 01:06:08,829

interview him that our listeners would

1561

01:06:11,490 --> 01:06:09,849

have heard earlier in the show and

1562

01:06:13,230 --> 01:06:11,500

actually what you didn't hear was I was

1563

01:06:14,339 --> 01:06:13,240

sitting on producing that in the

1564

01:06:17,700 --> 01:06:14,349

background that was a great interview

1565

01:06:19,020 --> 01:06:17,710

yeah it was good you yep so a lot of his

1566

01:06:20,640 --> 01:06:19,030

talk is going to be about trick or

1567

01:06:23,579 --> 01:06:20,650

treatment in fact him he's going to do a

1568

01:06:25,559 --> 01:06:23,589

lot of talk about alternative medicine

1569

01:06:27,329 --> 01:06:25,569

and the alternative medicine modalities

1570

01:06:29,130 --> 01:06:27,339

that he addressed in the book trick or

1571

01:06:30,750 --> 01:06:29,140

treat men with great book yeah and

1572

01:06:32,400 --> 01:06:30,760

tastic I mean all his books are great I

1573

01:06:34,109 --> 01:06:32,410

read the code book and I couldn't put it

1574

01:06:36,599 --> 01:06:34,119

down yeah seriously I was up all night

1575

01:06:38,730 --> 01:06:36,609

it was it's a brilliant way to learn all

1576

01:06:42,120 --> 01:06:38,740

about codes and ciphers he explains it

1577

01:06:44,579 --> 01:06:42,130

so well and need the Enigma machine from

1578

01:06:45,750 --> 01:06:44,589

the Second World War yep you read sew

1579

01:06:47,550 --> 01:06:45,760

ins book and you understand how the

1580

01:06:48,720 --> 01:06:47,560

bloody thing work it's it's he's a

1581

01:06:51,030 --> 01:06:48,730

really good writer well he's actually

1582

01:06:52,740 --> 01:06:51,040

getting some really big media interest

1583

01:06:54,150 --> 01:06:52,750

in Australia because of this too I

1584

01:06:56,339 --> 01:06:54,160

actually and I think it's going to

1585

01:06:58,799 --> 01:06:56,349

really put the whole bc

1586

01:07:00,420 --> 01:06:58,809

libel case in the spotlight in Australia

1587

01:07:02,279 --> 01:07:00,430

which yeah I think it's really good

1588

01:07:04,499 --> 01:07:02,289

because because we know all about it but

1589

01:07:05,849 --> 01:07:04,509

the job the general public don't and in

1590

01:07:08,099 --> 01:07:05,859

fact I was talking to a journalist a

1591

01:07:11,519 --> 01:07:08,109

couple of days ago about chiropractic in

1592

01:07:13,109 --> 01:07:11,529

general and he said to me well most

1593

01:07:15,170 --> 01:07:13,119

people in the ennis the Australian

1594

01:07:17,880 --> 01:07:15,180

public don't know it's quackery and

1595

01:07:19,019 --> 01:07:17,890

although not all of it is quackery the

1596

01:07:20,549 --> 01:07:19,029

bits where they say they can cure

1597

01:07:24,079 --> 01:07:20,559

deafness and colic and things like that

1598

01:07:28,140 --> 01:07:24,089

in children is potentially and allegedly

1599

01:07:31,650 --> 01:07:28,150

quackery notice what I said they're

1600

01:07:34,650 --> 01:07:31,660

little bit leged Lee some people have

1601  
01:07:36,900 --> 01:07:34,660  
said some people may have said there is

1602  
01:07:40,440 --> 01:07:36,910  
some suggestion that I think you can say

1603  
01:07:42,299 --> 01:07:40,450  
that there's no evidence for don t you

1604  
01:07:43,829 --> 01:07:42,309  
can say small enough evidence well I've

1605  
01:07:46,140 --> 01:07:43,839  
heard some people have allegedly said

1606  
01:07:47,370 --> 01:07:46,150  
that anyway go on but interestingly in

1607  
01:07:48,690 --> 01:07:47,380  
Australia and I don't know if it's the

1608  
01:07:50,849 --> 01:07:48,700  
same in other parts of the world you

1609  
01:07:52,950 --> 01:07:50,859  
know our private health funds cover

1610  
01:07:54,900 --> 01:07:52,960  
things like that they cover chiropractic

1611  
01:07:57,509 --> 01:07:54,910  
as well as acupuncture and some sort of

1612  
01:08:00,420 --> 01:07:57,519  
you know aroma therapies and things like

1613  
01:08:02,940 --> 01:08:00,430

that I try to remove the coven wine

1614

01:08:05,609 --> 01:08:02,950

actually called my help fund and try to

1615

01:08:06,749 --> 01:08:05,619

remove cover for unproven modality I

1616

01:08:08,729 --> 01:08:06,759

basically said I do not I'm not

1617

01:08:10,910 --> 01:08:08,739

interested in paying for anything that's

1618

01:08:14,190 --> 01:08:10,920

unproven yeah I want that removed and

1619

01:08:15,599 --> 01:08:14,200

it's just not possible no an option well

1620

01:08:18,450 --> 01:08:15,609

that's interesting because just recently

1621

01:08:20,339 --> 01:08:18,460

a health provider private health

1622

01:08:22,289 --> 01:08:20,349

provider in this country has put up ads

1623

01:08:24,629 --> 01:08:22,299

I don't know if you've seen them Joe

1624

01:08:26,039 --> 01:08:24,639

they say you can modify your cover now

1625

01:08:27,649 --> 01:08:26,049

to choose whether you want less

1626

01:08:32,070 --> 01:08:27,659

alternative therapies and more

1627

01:08:33,479 --> 01:08:32,080

conventional so maybe the tides turning

1628

01:08:34,950 --> 01:08:33,489

a little bit maybe there have been more

1629

01:08:36,329 --> 01:08:34,960

people like yourself ringing up and

1630

01:08:38,459 --> 01:08:36,339

saying I'm not paying for this nonsense

1631

01:08:41,300 --> 01:08:38,469

I wondered whether I saw those ads

1632

01:08:44,760 --> 01:08:41,310

actually as well and I noted that they

1633

01:08:47,579 --> 01:08:44,770

specifically said the person he answered

1634

01:08:50,430 --> 01:08:47,589

I would like less alternative therapies

1635

01:08:52,890 --> 01:08:50,440

and more you know optical or something

1636

01:08:56,839 --> 01:08:52,900

yeah therapy or everything that adds the

1637

01:08:59,339 --> 01:08:56,849

lipton tea yes whether they're in the

1638

01:09:02,339 --> 01:08:59,349

alternative salon and she's green tea oh

1639

01:09:04,499 --> 01:09:02,349

this is gone yeah it's better than the

1640

01:09:05,420 --> 01:09:04,509

mud with stepping on my face we're back

1641

01:09:09,170 --> 01:09:05,430

yard

1642

01:09:12,230 --> 01:09:09,180

that's actually really funny hat lipton

1643

01:09:14,030 --> 01:09:12,240

green tea green tea for this is really

1644

01:09:15,590 --> 01:09:14,040

good for you just as well because our

1645

01:09:19,160 --> 01:09:15,600

treatments have no therapeutic benefit

1646

01:09:20,510 --> 01:09:19,170

whatsoever mmm of course I'm only here

1647

01:09:22,460 --> 01:09:20,520

so I can boast about it to the girls at

1648

01:09:23,870 --> 01:09:22,470

tennis so you'd be looking forward to

1649

01:09:26,120 --> 01:09:23,880

[h\_\_\h] out a hundred and fifty dollars

1650

01:09:28,610 --> 01:09:26,130

for me to slot model over you well it is

1651

01:09:33,140 --> 01:09:28,620

so fabulously exclusive exclusive

1652

01:09:35,390 --> 01:09:33,150

leaving their very own backyard now

1653

01:09:38,410 --> 01:09:35,400

that's refreshing and naturally rich in

1654

01:09:42,230 --> 01:09:38,420

antioxidants lipton tea can do that

1655

01:09:44,720 --> 01:09:42,240

that's your rat now Joe has an old brand

1656

01:09:45,860 --> 01:09:44,730

which is not really a rant well not

1657

01:09:47,630 --> 01:09:45,870

really around what have you got there

1658

01:09:51,380 --> 01:09:47,640

John but it's a Segway I believe it's a

1659

01:09:53,990 --> 01:09:51,390

Segway it's some really interesting

1660

01:09:56,450 --> 01:09:54,000

little tidbit that i came across today

1661

01:09:58,220 --> 01:09:56,460

while i was looking up bum only know if

1662

01:10:00,620 --> 01:09:58,230

i was actually looking up something to

1663

01:10:02,960 --> 01:10:00,630

do with them homeopathy and malaria

1664

01:10:06,440 --> 01:10:02,970

because i come across a case it was

1665

01:10:09,230 --> 01:10:06,450

actually a weird little connection about

1666

01:10:13,130 --> 01:10:09,240

a woman who had suffered some severe

1667

01:10:15,290 --> 01:10:13,140

consequences of not taking prophylactic

1668

01:10:21,220 --> 01:10:15,300

treatment for malaria prior to traveling

1669

01:10:23,300 --> 01:10:21,230

to it was toga toga toga in Africa yeah

1670

01:10:27,860 --> 01:10:23,310

sorry if I get the name that country

1671

01:10:29,360 --> 01:10:27,870

wrong but she suffered you know ended up

1672

01:10:31,990 --> 01:10:29,370

in ICU for months and months and months

1673

01:10:34,280 --> 01:10:32,000

with severe constant you know

1674

01:10:35,900 --> 01:10:34,290

consequences of untreated malaria

1675

01:10:37,430 --> 01:10:35,910

because I'm takin homeopathic remedies

1676

01:10:39,170 --> 01:10:37,440

in the cot in the process of looking

1677

01:10:42,740 --> 01:10:39,180

this all up I came across this really

1678

01:10:46,580 --> 01:10:42,750

interesting little piece from it's from

1679

01:10:51,170 --> 01:10:46,590

1851 and it's from I think the London

1680

01:10:55,040 --> 01:10:51,180

journal of medicine and if 1815 1881

1681

01:10:56,810 --> 01:10:55,050

audio yeah 1851 and if you'll bear with

1682

01:10:59,480 --> 01:10:56,820

me I'll read you a little bit of it

1683

01:11:06,470 --> 01:10:59,490

because it's quite astounding and it's

1684

01:11:10,390 --> 01:11:06,480

from a doctor by the name of Cormac just

1685

01:11:16,939 --> 01:11:14,479

yeah dr. Carmack and it's regarding

1686

01:11:18,590 --> 01:11:16,949

their relations with homeopathy to the

1687

01:11:22,700 --> 01:11:18,600

editor of the provincial medical and

1688

01:11:26,660 --> 01:11:22,710

surgical journal July 29 1851 and dr.

1689

01:11:28,760 --> 01:11:26,670

Cormac says to adopt resolutions setting

1690

01:11:31,640 --> 01:11:28,770

forth that the homeopathic dogma and the

1691

01:11:34,550 --> 01:11:31,650

doctrine of infinitesimal doses have no

1692

01:11:37,640 --> 01:11:34,560

truthful basis and are in fact men

1693

01:11:40,130 --> 01:11:37,650

nonsensical delusions maybe quite proper

1694

01:11:42,290 --> 01:11:40,140

in as much as some honest but weak and

1695

01:11:44,180 --> 01:11:42,300

undisciplined mines have been seduced by

1696

01:11:45,979 --> 01:11:44,190

the hardy assertions and false reasoning

1697

01:11:48,470 --> 01:11:45,989

by which these errors have been

1698

01:11:51,860 --> 01:11:48,480

supported but something more is required

1699

01:11:54,290 --> 01:11:51,870

if it be true as I think it is that this

1700

01:11:56,290 --> 01:11:54,300

fashionable quackery is so susceptible

1701

01:11:58,939 --> 01:11:56,300

of adaptation to the most contradictory

1702

01:12:01,280 --> 01:11:58,949

prejudices of shallow men and women as

1703

01:12:04,640 --> 01:12:01,290

to have become a sort of protein deceit

1704

01:12:12,979 --> 01:12:04,650

able to lure lucca by every imaginable

1705

01:12:17,560 --> 01:12:12,989

while from the sick and vasily oh LOL we

1706

01:12:21,050 --> 01:12:17,570

go from the secon decision for yourself

1707

01:12:23,660 --> 01:12:21,060

the worst part of homeopathy is in my

1708

01:12:26,479 --> 01:12:23,670

opinion the dishonesty of the majority

1709

01:12:29,000 --> 01:12:26,489

of those who live by it when patients

1710

01:12:31,610 --> 01:12:29,010

are once secured they are I think very

1711

01:12:34,130 --> 01:12:31,620

rarely treated in accordance with the

1712

01:12:36,020 --> 01:12:34,140

principles of Hanuman but are retained

1713

01:12:39,020 --> 01:12:36,030

by the combination of every current

1714

01:12:41,450 --> 01:12:39,030

medical novelty which made the time be

1715

01:12:45,229 --> 01:12:41,460

most in favor with the money throng of

1716

01:12:47,990 --> 01:12:45,239

quack fences attention please members

1717

01:12:49,670 --> 01:12:48,000

and get it is now 925 p.m. and in five

1718

01:12:51,650 --> 01:12:49,680

minutes time or persons over the age of

1719

01:12:55,520 --> 01:12:51,660

18 must be scored from the premises

1720

01:12:58,640 --> 01:12:55,530

thank you it's not a bus announced a

1721

01:13:00,979 --> 01:12:58,650

beaver bus announcement event continues

1722

01:13:03,590 --> 01:13:00,989

if homeopathy you were honestly

1723

01:13:05,720 --> 01:13:03,600

practiced it might be annika amicably

1724

01:13:07,760 --> 01:13:05,730

dealt with but as it is truly a

1725

01:13:10,729 --> 01:13:07,770

combination of any and every available

1726

01:13:12,830 --> 01:13:10,739

Charlotte Charlotte anak trick it cannot

1727

01:13:15,290 --> 01:13:12,840

be effectively opposed as a distinct

1728

01:13:17,300 --> 01:13:15,300

medical heresy and therefore all that

1729

01:13:17,810 --> 01:13:17,310

remains for us as men of science and

1730

01:13:20,660 --> 01:13:17,820

rendering

1731

01:13:22,450 --> 01:13:20,670

30 is to give notice that we exclude

1732

01:13:24,950 --> 01:13:22,460

from all professional intercourse

1733

01:13:27,169 --> 01:13:24,960

practitioners who are in any way engaged

1734

01:13:30,020 --> 01:13:27,179

in using or upholding assist in which we

1735

01:13:34,939 --> 01:13:30,030

think bears upon its very face fraud as

1736

01:13:37,760 --> 01:13:34,949

well as absurdity wow I find a terrible

1737

01:13:41,689 --> 01:13:37,770

person I find it terribly depressing I

1738

01:13:45,530 --> 01:13:41,699

150 years years of past enough enough

1739

01:13:48,439 --> 01:13:45,540

that Iran yep um I'm sure I've been

1740

01:13:50,959 --> 01:13:48,449

trying to look into good pharmacies mmm

1741

01:13:52,490 --> 01:13:50,969

for a while so whenever I go past the

1742

01:13:58,149 --> 01:13:52,500

pharmacy I go in and have a look and see

1743

01:14:00,290 --> 01:13:58,159

whether they sell any quite great any

1744

01:14:03,020 --> 01:14:00,300

better mentor definitely if they sell

1745

01:14:06,979 --> 01:14:03,030

anything that's with some medical claim

1746

01:14:08,569 --> 01:14:06,989

and I make a list of those who don't now

1747

01:14:12,080 --> 01:14:08,579

i only found one place that actually

1748

01:14:13,939 --> 01:14:12,090

doesn't sell anything that's not from a

1749

01:14:17,450 --> 01:14:13,949

suti call or you know just this stuff

1750

01:14:20,270 --> 01:14:17,460

like stuff like toothpaste I'm Selena

1751

01:14:22,879 --> 01:14:20,280

anything nobody no vitamins is stuff

1752

01:14:24,530 --> 01:14:22,889

like that only one place but a fun about

1753

01:14:26,750 --> 01:14:24,540

three or four places they do not sell

1754

01:14:30,229 --> 01:14:26,760

anything that has medical claims

1755

01:14:31,879 --> 01:14:30,239

attached to it without evidence and I

1756

01:14:33,589 --> 01:14:31,889

thought it might be a good idea to make

1757

01:14:38,479 --> 01:14:33,599

a list of public list of these places

1758

01:14:41,180 --> 01:14:38,489

and so listeners know of such places

1759

01:14:43,760 --> 01:14:41,190

maybe they could send us the details and

1760

01:14:45,169 --> 01:14:43,770

people and we'll publish it somewhere

1761

01:14:47,569 --> 01:14:45,179

we'll have to probably think about where

1762

01:14:50,270 --> 01:14:47,579

we do it in what form that's um probably

1763

01:14:52,069 --> 01:14:50,280

Twitter tonight Seif Twitter to if

1764

01:14:55,160 --> 01:14:52,079

listeners go to a contact page at the

1765

01:14:58,520 --> 01:14:55,170

skeptic zone TV you'll find Iran's email

1766

01:15:00,800 --> 01:14:58,530

oh yeah Iran at skeptic zone TV and they

1767

01:15:02,209 --> 01:15:00,810

can send you yeah yeah just that we

1768

01:15:05,300 --> 01:15:02,219

found anything and anyone in the world

1769

01:15:08,089 --> 01:15:05,310

as well because that is you know to just

1770

01:15:10,850 --> 01:15:08,099

give these people who do the right thing

1771

01:15:14,089 --> 01:15:10,860

a bit of a boost hmm what a good idea

1772

01:15:18,020 --> 01:15:14,099

what a good idea ok price later on well

1773

01:15:20,959 --> 01:15:18,030

um how exciting mamando in iran off to

1774

01:15:23,089 --> 01:15:20,969

town next week absolutely yes time nice

1775

01:15:27,049 --> 01:15:23,099

week this time next week be sitting in

1776

01:15:28,020 --> 01:15:27,059

my row something in a 380 Joe and I will

1777

01:15:32,799 --> 01:15:28,030

take over

1778

01:15:36,489 --> 01:15:32,809

don't mention the a318 a319 channa i buy

1779

01:15:39,549 --> 01:15:36,499

a 380 in Vegas the downside is it's a

1780

01:15:42,669 --> 01:15:39,559

Qantas one but where does it might get a

1781

01:15:45,069 --> 01:15:42,679

hole in them but we love points we love

1782

01:15:47,020 --> 01:15:45,079

all hello I'm just frequent flyer hello

1783

01:15:49,209 --> 01:15:47,030

know who have the best safety record in

1784

01:15:51,250 --> 01:15:49,219

the world I do qanis event I would fly

1785

01:15:52,779 --> 01:15:51,260

with Qantas anytime anywhere I think

1786

01:15:56,049 --> 01:15:52,789

they're the best airline and address

1787

01:15:57,399 --> 01:15:56,059

must I must say I flying with them is

1788

01:15:59,589 --> 01:15:57,409

not the problem but if you're trying to

1789

01:16:03,479 --> 01:15:59,599

get customer service that's enough

1790

01:16:05,680 --> 01:16:03,489

message that and they'll sort it out

1791

01:16:08,739 --> 01:16:05,690

happened to Adam Savage this week on

1792

01:16:11,669 --> 01:16:08,749

Twitter did you about that yeah he had a

1793

01:16:14,469 --> 01:16:11,679

bill from a particular talent at ELQ I

1794

01:16:16,449 --> 01:16:14,479

AT&T yes for how much less than a

1795

01:16:19,299 --> 01:16:16,459

hundred thousand dollars were there many

1796

01:16:20,680 --> 01:16:19,309

dollars and he tweeted that and said

1797

01:16:22,359 --> 01:16:20,690

this is ridiculous and everyone

1798

01:16:23,770 --> 01:16:22,369

retweeted it and they eventually called

1799

01:16:28,569 --> 01:16:23,780

him i said i don't worry about that and

1800

01:16:33,370 --> 01:16:28,579

cancelled the bill i got a huge gas bill

1801

01:16:35,739 --> 01:16:33,380

yeah yeah but i may be justified oh it's

1802

01:16:38,410 --> 01:16:35,749

oh I didn't realize that you had to be

1803

01:16:40,199 --> 01:16:38,420

done justice yeah generally speaking no

1804

01:16:44,410 --> 01:16:40,209

because I just I'm not happy with it

1805

01:16:46,479 --> 01:16:44,420

good enough it's a dark for a while I'm

1806

01:16:47,919 --> 01:16:46,489

going home to look at my twitter Amanda

1807

01:16:50,049 --> 01:16:47,929

thank you very much for being with us

1808

01:16:52,589 --> 01:16:50,059

tonight Iran Thank You jatha you guys

1809

01:17:30,009 --> 01:16:52,599

enjoy your trip we won't miss you Oh

1810

01:17:35,569 --> 01:17:32,689

thank you for joining us here today for

1811

01:17:37,489 --> 01:17:35,579

a skeptic zone and don't forget you can

1812

01:17:39,709 --> 01:17:37,499

contribute to the Perth tour of the

1813

01:17:42,139 --> 01:17:39,719

skeptic zone with Richard Saunders and

1814

01:17:44,989 --> 01:17:42,149

dr. Rachel Dunlop at the University of

1815

01:17:49,810 --> 01:17:44,999

Western Australia in early August check

1816

01:17:55,179 --> 01:17:49,820

out the site at wwc a pegs on TV and

1817

01:17:58,790 --> 01:17:55,189

also our blog at wwc aiptek zone

1818

01:18:00,949 --> 01:17:58,800

wordpress com we will feature more news

1819

01:18:02,929 --> 01:18:00,959

and details as it comes to hand but we

1820

01:18:05,209 --> 01:18:02,939

can really appreciate some donations

1821

01:18:08,149 --> 01:18:05,219

just by clicking on the paypal button or

1822

01:18:10,310 --> 01:18:08,159

contacting us on the side join us again

1823

01:18:12,919 --> 01:18:10,320

next week when we talk to Shane Killian

1824

01:18:15,409 --> 01:18:12,929

yes he of the bogo city videos and

1825

01:18:18,109 --> 01:18:15,419

Richard pays a visit to the Australian

1826

01:18:23,989 --> 01:18:18,119

Museum in Sydney thanks and stay

1827

01:18:28,250 --> 01:18:23,999

skeptical you've been listening to the

1828

01:18:31,520 --> 01:18:28,260

skeptic zone visit our website at [wwc a](#)

1829

01:18:35,500 --> 01:18:31,530

petting zoo TV for comments contacts and