

The Skeptic Zone
Show 380 - 31 Jan 2016



Fred

1
00:00:22,660 --> 00:00:09,110
welcome to the skeptic zone the podcast

2
00:00:29,720 --> 00:00:25,339
hello and welcome to the skeptic zone

3
00:00:32,450 --> 00:00:29,730
episode number 384 the 31st of January

4
00:00:34,520 --> 00:00:32,460
2016 Richard Saunders here with you from

5
00:00:36,500 --> 00:00:34,530
Sydney Australia coming up on this

6
00:00:39,590 --> 00:00:36,510
week's show we're gonna kick off with

7
00:00:42,470 --> 00:00:39,600
joe alabaster some evidence please with

8
00:00:45,890 --> 00:00:42,480
Joe Joe's going to be talking to us

9
00:00:50,450 --> 00:00:45,900
about the importance of being on the

10
00:00:51,979 --> 00:00:50,460
bone marrow register now I must admit

11
00:00:55,100 --> 00:00:51,989
this is something that hasn't really

12
00:00:56,719 --> 00:00:55,110
crossed my mind but it is now and

13
00:00:59,469 --> 00:00:56,729

certainly crossing my mind now and it

14

00:01:01,939 --> 00:00:59,479

may cross yours after listening to

15

00:01:04,880 --> 00:01:01,949

evidence please with Joe alabaster

16

00:01:07,130 --> 00:01:04,890

following that I catch up with a dear

17

00:01:09,920 --> 00:01:07,140

old friend of mine somebody haven't seen

18

00:01:13,249 --> 00:01:09,930

for a while Professor Richard Wiseman

19

00:01:16,490 --> 00:01:13,259

all the way from the UK now he's the man

20

00:01:19,580 --> 00:01:16,500

who does the incredibly funny and

21

00:01:20,929 --> 00:01:19,590

interesting quirkology videos in fact i

22

00:01:23,390 --> 00:01:20,939

must say that during a mystery

23

00:01:25,969 --> 00:01:23,400

investigators live school show which i

24

00:01:28,520 --> 00:01:25,979

do from time to time with that dr. H II

25

00:01:31,609 --> 00:01:28,530

and Maynard and some other people that

26
00:01:36,020 --> 00:01:31,619
we use a video from Professor Wiseman to

27
00:01:37,279 --> 00:01:36,030
help illustrate a point anyway I catch

28
00:01:42,319 --> 00:01:37,289
up with rigid he's going to be talking

29
00:01:46,130 --> 00:01:42,329
about psychic dogs Maria's magical

30
00:01:51,010 --> 00:01:46,140
videos his uh his books he lights a lot

31
00:01:52,999 --> 00:01:51,020
of books and the study of dreams and

32
00:01:55,219 --> 00:01:53,009
interesting interview coming up a bit

33
00:01:56,569 --> 00:01:55,229
later on in the show then it's a week in

34
00:02:01,099 --> 00:01:56,579
signs from our friends at the Royal

35
00:02:03,529 --> 00:02:01,109
Institution of Australia w WR I a USGA

36
00:02:06,139 --> 00:02:03,539
you and if you're going to visit

37
00:02:09,440 --> 00:02:06,149
Adelaide you should visit the Royal

38
00:02:12,559 --> 00:02:09,450

Institution I think you'd enjoy it then

39

00:02:14,660 --> 00:02:12,569

to round off the show Maynard's spooky

40

00:02:17,650 --> 00:02:14,670

action now we've been talking lately

41

00:02:20,090 --> 00:02:17,660

about discussing the chiropractic board

42

00:02:23,920 --> 00:02:20,100

well may not finally does it he's going

43

00:02:26,630 --> 00:02:23,930

to be interviewing ken harvey what a

44

00:02:29,660 --> 00:02:26,640

legend he is in australian skeptical

45

00:02:33,770 --> 00:02:29,670

circles he gets things done he's the the

46

00:02:34,640 --> 00:02:33,780

thorn in the side of many a quack I can

47

00:02:36,530 --> 00:02:34,650

tell you

48

00:02:39,050 --> 00:02:36,540

he writes to government he prepares

49

00:02:40,729 --> 00:02:39,060

reports a man who doesn't sit back in

50

00:02:42,410 --> 00:02:40,739

his armchair I can promise you that but

51
00:02:46,220 --> 00:02:42,420
just before we get stuck into the

52
00:02:48,770 --> 00:02:46,230
skeptic zone some news from Victoria

53
00:02:51,589 --> 00:02:48,780
from our friends in Victoria well it's a

54
00:02:53,539 --> 00:02:51,599
reminder for an upcoming event for the

55
00:02:56,210 --> 00:02:53,549
fifth year in a row the australia's

56
00:02:58,610 --> 00:02:56,220
favourite low-key grassroots skeptical

57
00:03:01,670 --> 00:02:58,620
event will be run at Ellie's inlet

58
00:03:04,550 --> 00:03:01,680
community hall on saturday the 27th of

59
00:03:07,250 --> 00:03:04,560
februari this is the Surf Coast skeptic

60
00:03:09,619 --> 00:03:07,260
camp now it's a one-day event it's free

61
00:03:12,309 --> 00:03:09,629
and you'll be able to hear from local

62
00:03:14,869 --> 00:03:12,319
and visiting skeptics scientists and

63
00:03:17,869 --> 00:03:14,879

curious onlookers alike as they discuss

64

00:03:21,229 --> 00:03:17,879

topics from cults to alt med to local

65

00:03:24,050 --> 00:03:21,239

mysteries and more the science on top

66

00:03:26,270 --> 00:03:24,060

podcast will again be doing a live

67

00:03:29,479 --> 00:03:26,280

recording sounds like a lot of fun lunch

68

00:03:32,000 --> 00:03:29,489

will be provided but they need to know

69

00:03:36,440 --> 00:03:32,010

numbers so the thing to do is to visit

70

00:03:39,530 --> 00:03:36,450

the eventbrite website and find the link

71

00:03:42,050 --> 00:03:39,540

or do a search for surf coast summer

72

00:03:44,330 --> 00:03:42,060

skeptacamp I'll put a link in the show

73

00:03:47,689 --> 00:03:44,340

notes so if you're in Victoria that's

74

00:03:49,970 --> 00:03:47,699

the place to head on Saturday the 27th

75

00:03:52,789 --> 00:03:49,980

of very now just before I run downstairs

76
00:03:54,890 --> 00:03:52,799
and find myself something to eat please

77
00:03:57,800 --> 00:03:54,900
stay tuned right at the end of the show

78
00:04:00,140 --> 00:03:57,810
for a little announcement from me about

79
00:04:01,670 --> 00:04:00,150
one of our skeptics own family but now

80
00:04:04,270 --> 00:04:01,680
it is time for me to run downstairs and

81
00:04:07,939 --> 00:04:04,280
I think I will look for a bagel with

82
00:04:09,830 --> 00:04:07,949
some cream cheese that sounds pretty

83
00:04:27,770 --> 00:04:09,840
damn good well I'm doing that I hope you

84
00:04:37,459 --> 00:04:30,390
what we want is some more evidence

85
00:04:37,469 --> 00:04:42,550
hello this is juror alabaster

86
00:04:50,600 --> 00:04:47,750
f cancer cancer socks and F quack cancer

87
00:04:52,190 --> 00:04:50,610
treatments true medical science is

88
00:04:54,200 --> 00:04:52,200

working hard to develop the best

89

00:04:56,600 --> 00:04:54,210

treatments for various cancers it

90

00:04:58,850 --> 00:04:56,610

doesn't have all the answers but it does

91

00:05:00,590 --> 00:04:58,860

have the best answers and one of those

92

00:05:03,140 --> 00:05:00,600

answers for some people with blood

93

00:05:06,159 --> 00:05:03,150

cancers is to receive a bone marrow or

94

00:05:08,570 --> 00:05:06,169

peripheral blood stem cell transplant

95

00:05:11,180 --> 00:05:08,580

the Australian bone marrow donor

96

00:05:13,340 --> 00:05:11,190

registry keeps a database of Australians

97

00:05:15,530 --> 00:05:13,350

who have registered to be donors along

98

00:05:16,970 --> 00:05:15,540

with details of their tissue type in the

99

00:05:20,000 --> 00:05:16,980

hope that they can find matches for

100

00:05:22,370 --> 00:05:20,010

people in need recipients include people

101
00:05:24,140 --> 00:05:22,380
who have lymphoma and leukemia as well

102
00:05:26,600 --> 00:05:24,150
as some genetic and autoimmune

103
00:05:29,690 --> 00:05:26,610
conditions such as forms of anemia and

104
00:05:32,420 --> 00:05:29,700
platelet disorders if you meet the

105
00:05:34,490 --> 00:05:32,430
criteria registering to become a bone

106
00:05:36,920 --> 00:05:34,500
marrow donor in Australia is as simple

107
00:05:38,900 --> 00:05:36,930
as donating blood the Australian Red

108
00:05:40,700 --> 00:05:38,910
Cross blood donation service are the

109
00:05:43,790 --> 00:05:40,710
agency who collect blood for tissue

110
00:05:45,710 --> 00:05:43,800
typing for the registry when booking an

111
00:05:47,300 --> 00:05:45,720
appointment with the Red Cross simply

112
00:05:49,760 --> 00:05:47,310
state that you'd like to join the bone

113
00:05:51,530 --> 00:05:49,770

marrow donation registry also and they

114

00:05:54,920 --> 00:05:51,540

will arrange the paperwork and blood

115

00:05:58,100 --> 00:05:54,930

collection the registry accepts people

116

00:06:00,230 --> 00:05:58,110

between 18 and 45 years old and there

117

00:06:01,969 --> 00:06:00,240

are some exclusions as to who can donate

118

00:06:04,010 --> 00:06:01,979

bone marrow which listed on the

119

00:06:06,020 --> 00:06:04,020

australian bone marrow donor registries

120

00:06:08,480 --> 00:06:06,030

website these are different to blood

121

00:06:10,820 --> 00:06:08,490

donation so some people who are unable

122

00:06:13,430 --> 00:06:10,830

to donate blood are still able to donate

123

00:06:15,800 --> 00:06:13,440

bone marrow and some exclusion criteria

124

00:06:17,810 --> 00:06:15,810

a temporary so if you're excluded now

125

00:06:20,750 --> 00:06:17,820

you may still be able to sign up in the

126

00:06:23,600 --> 00:06:20,760

future tissue typing is quite

127

00:06:27,380 --> 00:06:23,610

interesting it's also known as h la

128

00:06:29,750 --> 00:06:27,390

typing HLA being human leukocyte antigen

129

00:06:32,090 --> 00:06:29,760

HLA markers are one of the ways our

130

00:06:33,980 --> 00:06:32,100

immune system determines whether cells

131

00:06:36,469 --> 00:06:33,990

are foreign or our own so that the

132

00:06:38,690 --> 00:06:36,479

closer match our donors HLA markers are

133

00:06:40,610 --> 00:06:38,700

to the recipients the less likely it is

134

00:06:42,710 --> 00:06:40,620

that the recipients immune system will

135

00:06:45,890 --> 00:06:42,720

attack the donated cells and reject the

136

00:06:47,930 --> 00:06:45,900

transplant one in three people needing a

137

00:06:49,700 --> 00:06:47,940

bone marrow transplant have a fully

138

00:06:52,339 --> 00:06:49,710

matched family member who's able to

139

00:06:55,010 --> 00:06:52,349

donate to them for those who don't wait

140

00:06:58,430 --> 00:06:55,020

a family and unrelated donor searches by

141

00:07:00,290 --> 00:06:58,440

bone marrow registries are needed should

142

00:07:02,210 --> 00:07:00,300

you be a match for somebody which

143

00:07:04,879 --> 00:07:02,220

involves further tissue typing via a

144

00:07:07,460 --> 00:07:04,889

blood sample to confirm the match there

145

00:07:09,230 --> 00:07:07,470

are two ways to donate the best method

146

00:07:11,990 --> 00:07:09,240

is determined by the treating doctors

147

00:07:14,420 --> 00:07:12,000

involved you may be having visions of

148

00:07:16,490 --> 00:07:14,430

huge needles at this point they're used

149

00:07:18,649 --> 00:07:16,500

for collecting bone marrow directly from

150

00:07:21,469 --> 00:07:18,659

a donor's hip while the donors under a

151

00:07:23,450 --> 00:07:21,479

general anesthetic post-operative pain

152

00:07:26,689 --> 00:07:23,460

is generally manage with paracetamol and

153

00:07:28,730 --> 00:07:26,699

recoveries often swift the removed bone

154

00:07:32,420 --> 00:07:28,740

marrow is replenished by the body within

155

00:07:34,460 --> 00:07:32,430

around four weeks the alternative method

156

00:07:37,490 --> 00:07:34,470

of donation which I wasn't aware of

157

00:07:40,010 --> 00:07:37,500

until recently it's to donate peripheral

158

00:07:41,960 --> 00:07:40,020

blood stem cells this is done by

159

00:07:44,330 --> 00:07:41,970

injecting the donor over several days

160

00:07:47,360 --> 00:07:44,340

with a hormone like treatment known as

161

00:07:49,339 --> 00:07:47,370

g-csf which stimulates increased

162

00:07:51,320 --> 00:07:49,349

production of stem cells within bone

163

00:07:54,050 --> 00:07:51,330

marrow these cells are then released

164

00:07:56,240 --> 00:07:54,060

into the blood stream donation itself

165

00:07:58,820 --> 00:07:56,250

involves spending three to four hours at

166

00:08:01,070 --> 00:07:58,830

an affair Asus center in which blood is

167

00:08:03,050 --> 00:08:01,080

taken from the donor sent through a cell

168

00:08:05,390 --> 00:08:03,060

separator machine which collects stem

169

00:08:08,209 --> 00:08:05,400

cells needed for transplant and then

170

00:08:10,040 --> 00:08:08,219

returned to the donor the donated

171

00:08:12,499 --> 00:08:10,050

product is then processed and

172

00:08:14,059 --> 00:08:12,509

transplanted to the recipient healthy

173

00:08:16,219 --> 00:08:14,069

blood stem cells are given to the

174

00:08:18,110 --> 00:08:16,229

patient intravenously and they find

175

00:08:21,019 --> 00:08:18,120

their way into bones to become healthy

176

00:08:22,760 --> 00:08:21,029

marrow transplantation of these healthy

177

00:08:24,800 --> 00:08:22,770

blood stem cells means that the

178

00:08:26,260 --> 00:08:24,810

patient's bone marrow can produce new

179

00:08:29,480 --> 00:08:26,270

red and white blood cells and platelets

180

00:08:31,850 --> 00:08:29,490

it also means that the patient can have

181

00:08:36,440 --> 00:08:31,860

ongoing chemotherapy and/or radiotherapy

182

00:08:37,909 --> 00:08:36,450

as directed by their clinician now all

183

00:08:39,920 --> 00:08:37,919

of this came to my attention recently

184

00:08:42,050 --> 00:08:39,930

because I saw a tweet on my timeline

185

00:08:43,639 --> 00:08:42,060

from lymphoma Australia who are

186

00:08:47,300 --> 00:08:43,649

campaigning to find a donor for a

187

00:08:49,460 --> 00:08:47,310

specific person quote despite a

188

00:08:51,290 --> 00:08:49,470

worldwide search one Australian family

189

00:08:54,019 --> 00:08:51,300

is still looking for a bone marrow donor

190

00:08:56,569 --> 00:08:54,029

for their much-loved mum you can help if

191

00:08:58,940 --> 00:08:56,579

you're an Australian with UK heritage

192

00:09:01,310 --> 00:08:58,950

and eligible to join the Australian bone

193

00:09:03,470 --> 00:09:01,320

marrow registry please consider taking

194

00:09:05,420 --> 00:09:03,480

the time as soon as you can to donate

195

00:09:07,819 --> 00:09:05,430

blood and ask to join the bone marrow

196

00:09:08,960 --> 00:09:07,829

registry even if you aren't the match

197

00:09:10,579 --> 00:09:08,970

your blood will still be

198

00:09:14,449 --> 00:09:10,589

wonderful gift to another Australian in

199

00:09:16,490 --> 00:09:14,459

need and quote the next tweet on my

200

00:09:18,050 --> 00:09:16,500

timeline was from a friend who tweets a

201
00:09:20,689 --> 00:09:18,060
lot in support of evidence-based

202
00:09:23,449 --> 00:09:20,699
medicine and people campaigning against

203
00:09:26,509 --> 00:09:23,459
dangerous quackery stating that she was

204
00:09:28,160 --> 00:09:26,519
the person who needed the transplant it

205
00:09:30,379 --> 00:09:28,170
was something of a shock she'd never be

206
00:09:32,900 --> 00:09:30,389
in public about having lymphoma and I

207
00:09:34,790 --> 00:09:32,910
wanted to somehow help she spoke with me

208
00:09:36,590 --> 00:09:34,800
about peripheral blood stem cells other

209
00:09:39,439 --> 00:09:36,600
people she knew who are in need of

210
00:09:40,970 --> 00:09:39,449
transplants and her personal situation

211
00:09:44,119 --> 00:09:40,980
raising children and living with

212
00:09:45,920 --> 00:09:44,129
lymphoma I really wanted this week's

213
00:09:47,990 --> 00:09:45,930

report to not only give you some

214

00:09:49,759 --> 00:09:48,000

information on the bone marrow registry

215

00:09:51,889 --> 00:09:49,769

but to take you through my own

216

00:09:55,550 --> 00:09:51,899

experience of joining but unfortunately

217

00:09:57,679 --> 00:09:55,560

I'm not eligible to donate maybe you or

218

00:09:59,329 --> 00:09:57,689

someone you know can though and the more

219

00:10:01,129 --> 00:09:59,339

people are on it the greater chance the

220

00:10:04,610 --> 00:10:01,139

registry can find a match to save

221

00:10:06,050 --> 00:10:04,620

somebody's life for more information on

222

00:10:12,110 --> 00:10:06,060

the australian bone marrow donor

223

00:10:14,420 --> 00:10:12,120

registry you can visit WWE BMD rga you

224

00:10:18,679 --> 00:10:14,430

and to line up an appointment to

225

00:10:22,179 --> 00:10:18,689

register via the red cross call 13 14 95

226

00:10:24,110 --> 00:10:22,189

and ask about joining the registry if

227

00:10:25,850 --> 00:10:24,120

you're one of our non-australian

228

00:10:28,579 --> 00:10:25,860

listeners and you're interested in

229

00:10:29,960 --> 00:10:28,589

signing up googling bone marrow donation

230

00:10:31,879 --> 00:10:29,970

should give you some leads on the

231

00:10:34,819 --> 00:10:31,889

agencies and procedures used in your

232

00:10:37,160 --> 00:10:34,829

country several bone marrow donation

233

00:10:39,079 --> 00:10:37,170

registries worldwide including the

234

00:10:41,030 --> 00:10:39,089

Australian bone marrow donor registry

235

00:10:43,670 --> 00:10:41,040

have shared data bases with

236

00:10:45,559 --> 00:10:43,680

de-identified donor information so

237

00:10:49,100 --> 00:10:45,569

donors who sign up are able to help

238

00:10:50,480 --> 00:10:49,110

others in need worldwide I hope that if

239

00:10:52,519 --> 00:10:50,490

you're eligible to donate bone marrow

240

00:10:54,439 --> 00:10:52,529

and interested in doing so you'll

241

00:10:55,759 --> 00:10:54,449

consider joining a registry and that

242

00:10:57,889 --> 00:10:55,769

you'll let others know that there's

243

00:10:59,840 --> 00:10:57,899

something they can do if they want the

244

00:11:02,179 --> 00:10:59,850

chance to help people with blood cancers

245

00:11:06,829 --> 00:11:02,189

and other conditions who would benefit

246

00:11:08,809 --> 00:11:06,839

from a bone marrow transplant for more

247

00:11:11,569 --> 00:11:08,819

evidence please visit evidence please

248

00:11:15,379 --> 00:11:11,579

net found it on Facebook or find me on

249

00:11:17,569 --> 00:11:15,389

Twitter at Joe alabaster and if you sign

250

00:11:20,350 --> 00:11:17,579

up for the bone marrow registry send me

251

00:11:22,780 --> 00:11:20,360

a tweet or drop me a line via Joe ever

252

00:11:24,880 --> 00:11:22,790

please don't net so i can say thank you

253

00:11:26,860 --> 00:11:24,890

and let my friend know that the skeptic

254

00:11:45,120 --> 00:11:26,870

community are signing up to help her and

255

00:11:49,180 --> 00:11:47,710

today this is dr. Karl Karl Christmas be

256

00:11:51,370 --> 00:11:49,190

proud to be a skeptic and you can find

257

00:12:14,190 --> 00:11:51,380

out more about me at dr. Kyle calm and

258

00:12:21,940 --> 00:12:18,970

and joining me now all the way from one

259

00:12:24,160 --> 00:12:21,950

of the the city's I dream about visiting

260

00:12:26,320 --> 00:12:24,170

or living in or being there any time I

261

00:12:28,780 --> 00:12:26,330

can get Edinburgh what a beautiful city

262

00:12:31,840 --> 00:12:28,790

it is it's dr. richard wiseman hello

263

00:12:34,960 --> 00:12:31,850

Richard hello great to talk with you we

264

00:12:36,610 --> 00:12:34,970

haven't caught up for a while just as a

265

00:12:38,380 --> 00:12:36,620

general background for people who aren't

266

00:12:40,350 --> 00:12:38,390

familiar with your work what's what's

267

00:12:44,620 --> 00:12:40,360

the richard wiseman story in a nutshell

268

00:12:49,030 --> 00:12:44,630

um well are you sitting comfortably it's

269

00:12:53,230 --> 00:12:49,040

a long story I was I was born yeah yeah

270

00:12:55,900 --> 00:12:53,240

I'm one yes that's right um in 1992 no

271

00:12:57,550 --> 00:12:55,910

goodness oh yes yes it's I look a lot

272

00:12:59,440 --> 00:12:57,560

older than that obviously but it's just

273

00:13:01,090 --> 00:12:59,450

been a very stressful Oh stressful life

274

00:13:02,800 --> 00:13:01,100

so you're a couple of years older than

275

00:13:07,390 --> 00:13:02,810

me that's good keep going that's correct

276

00:13:09,310 --> 00:13:07,400

that's right yes yes and so no no I'm a

277

00:13:11,140 --> 00:13:09,320

psychologist i started my working life

278

00:13:13,300 --> 00:13:11,150

as a magician many years ago still

279

00:13:15,430 --> 00:13:13,310

heavily involved in magic i know lots of

280

00:13:19,120 --> 00:13:15,440

magicians i was with one of them today

281

00:13:20,920 --> 00:13:19,130

actually and then i also have carried

282

00:13:22,780 --> 00:13:20,930

out research into the paranormal that's

283

00:13:25,480 --> 00:13:22,790

why my initial work was looking at from

284

00:13:27,400 --> 00:13:25,490

a source skeptical perspective and then

285

00:13:30,480 --> 00:13:27,410

looked at the psychology of illusion and

286

00:13:32,830 --> 00:13:30,490

then started looking at self-help and

287

00:13:35,890 --> 00:13:32,840

how you make yourself happier and

288

00:13:38,170 --> 00:13:35,900

luckier and so on and now i make youtube

289

00:13:40,210 --> 00:13:38,180

videos and I give talks and I do live

290

00:13:42,520 --> 00:13:40,220

shows and I do a little bit television

291

00:13:45,340 --> 00:13:42,530

and i'm just generally a very very

292

00:13:46,690 --> 00:13:45,350

pleasant person well that we should in

293

00:13:48,010 --> 00:13:46,700

the interview right there richard

294

00:13:50,710 --> 00:13:48,020

wiseman thank you very much but before

295

00:13:54,400 --> 00:13:50,720

we in the interview now folks if you

296

00:13:57,460 --> 00:13:54,410

haven't subscribed to richards youtube

297

00:14:02,290 --> 00:13:57,470

channel it's called quirkology qog

298

00:14:04,150 --> 00:14:02,300

quirkology a hue you i RK o el o gy and

299

00:14:06,730 --> 00:14:04,160

I noticed Richard I was just having a

300

00:14:08,740 --> 00:14:06,740

quick look through today I am a

301
00:14:11,890 --> 00:14:08,750
subscriber of course but i noticed i am

302
00:14:13,600 --> 00:14:11,900
one of almost two million subscribers

303
00:14:15,670 --> 00:14:13,610
and that should tell you something folks

304
00:14:18,820 --> 00:14:15,680
about how interesting the channel is and

305
00:14:21,010 --> 00:14:18,830
not too long ago you put out a new video

306
00:14:23,020 --> 00:14:21,020
where you make a ball disappear you do

307
00:14:24,820 --> 00:14:23,030
all sorts of very interesting tricks

308
00:14:26,500 --> 00:14:24,830
and what's really great is you can watch

309
00:14:28,780 --> 00:14:26,510
half the video and see the ball or

310
00:14:31,210 --> 00:14:28,790
whatever it is disappear and you can

311
00:14:32,410 --> 00:14:31,220
pause it and replay the first part over

312
00:14:34,840 --> 00:14:32,420
and over and over and over again until

313
00:14:38,890 --> 00:14:34,850

you go insane then if you let the video

314

00:14:41,500 --> 00:14:38,900

play through you can see the secret and

315

00:14:44,710 --> 00:14:41,510

I must say that I pause this thing about

316

00:14:46,120 --> 00:14:44,720

six times and I gave up and I had to

317

00:14:48,730 --> 00:14:46,130

look at the secret and I nearly fell off

318

00:14:50,860 --> 00:14:48,740

my chair that is that your latest one

319

00:14:53,410 --> 00:14:50,870

where the ball disappears is surely one

320

00:14:56,830 --> 00:14:53,420

of the best that must have been many

321

00:14:57,940 --> 00:14:56,840

takes it was many many takes and so yes

322

00:14:59,530 --> 00:14:57,950

you're absolutely right about the two

323

00:15:00,850 --> 00:14:59,540

halves the video the first part is

324

00:15:03,370 --> 00:15:00,860

showing what magicians refer to as the

325

00:15:05,500 --> 00:15:03,380

effect the magical bit and normally with

326

00:15:07,060 --> 00:15:05,510

magic normal do magicians you don't get

327

00:15:09,400 --> 00:15:07,070

to go backstage and see what they refer

328

00:15:12,190 --> 00:15:09,410

to as the method but with the quad

329

00:15:14,260 --> 00:15:12,200

ecology tricks or which I invent the

330

00:15:16,300 --> 00:15:14,270

idea is that the method is particularly

331

00:15:17,650 --> 00:15:16,310

intriguing and rather fun and also it's

332

00:15:19,450 --> 00:15:17,660

something a magician's would never use

333

00:15:22,030 --> 00:15:19,460

so i don't get shouted out by the way my

334

00:15:24,640 --> 00:15:22,040

magical colleagues and yet the ball

335

00:15:26,260 --> 00:15:24,650

video i think cousin otherwise it's

336

00:15:27,700 --> 00:15:26,270

always the same i get i get everyone

337

00:15:30,160 --> 00:15:27,710

together to film one of these videos i

338

00:15:32,680 --> 00:15:30,170

say to them you know it'll be about an

339

00:15:34,450 --> 00:15:32,690

hour i had to do this and then I've got

340

00:15:36,490 --> 00:15:34,460

this one works I say it'll be about now

341

00:15:39,850 --> 00:15:36,500

ignore what happened last time it'll be

342

00:15:42,400 --> 00:15:39,860

about an hour and then about do about

343

00:15:44,080 --> 00:15:42,410

three or four hours later when mr.

344

00:15:46,330 --> 00:15:44,090

goodwill has not only left the building

345

00:15:49,300 --> 00:15:46,340

he's got taxi over the other side of

346

00:15:51,460 --> 00:15:49,310

town and everyone is just fed up with

347

00:15:53,080 --> 00:15:51,470

hearing the sound of my voice as I

348

00:15:54,250 --> 00:15:53,090

repeat the script again again or go

349

00:15:56,350 --> 00:15:54,260

through the actions again again

350

00:15:58,570 --> 00:15:56,360

eventually we get one take that works

351

00:15:59,860 --> 00:15:58,580

and that's the one you see so yeah I

352

00:16:02,830 --> 00:15:59,870

think that's probably about 30 takes

353

00:16:05,140 --> 00:16:02,840

something like that but it's so much fun

354

00:16:07,390 --> 00:16:05,150

to kind of put this stuff out there and

355

00:16:09,280 --> 00:16:07,400

i love the ball one um and hasn't a

356

00:16:13,420 --> 00:16:09,290

slightly weird genesis actually because

357

00:16:15,430 --> 00:16:13,430

i went on a holiday to Spain and i was

358

00:16:16,870 --> 00:16:15,440

went to a monkey park I wouldn't really

359

00:16:19,090 --> 00:16:16,880

normally go to a monkey park where

360

00:16:20,380 --> 00:16:19,100

winter monkey park and just as I walked

361

00:16:23,200 --> 00:16:20,390

through the gate to the monkey park a

362

00:16:25,750 --> 00:16:23,210

friend of mine sent me an email with a

363

00:16:28,180 --> 00:16:25,760

link to a clip of a an orangutang

364

00:16:30,220 --> 00:16:28,190

enjoying a magic trick oh yes I have

365

00:16:31,900 --> 00:16:30,230

seen that and that's brilliant yes yeah

366

00:16:34,090 --> 00:16:31,910

one wonderful yeah watching this as I

367

00:16:35,650 --> 00:16:34,100

walk into monkey park and I said to my

368

00:16:36,310 --> 00:16:35,660

frame on my friend back i said i'll go

369

00:16:38,020 --> 00:16:36,320

over to

370

00:16:40,690 --> 00:16:38,030

chimps who are the other side the park

371

00:16:43,570 --> 00:16:40,700

gosh oh the magic trick now I go over

372

00:16:44,800 --> 00:16:43,580

and boy the chimps are not interested in

373

00:16:46,600 --> 00:16:44,810

my trick I don't know if they've seen

374

00:16:48,670 --> 00:16:46,610

other magicians I don't know if there's

375

00:16:50,860 --> 00:16:48,680

been local magic clubs been in the week

376

00:16:52,570 --> 00:16:50,870

before they are not interested and no

377

00:16:54,490 --> 00:16:52,580

interest the chips and then I went over

378

00:16:55,810 --> 00:16:54,500

to the smaller monkeys are you allowed

379

00:16:57,550 --> 00:16:55,820

to play with you're not allowed to play

380

00:16:59,140 --> 00:16:57,560

with the chimps a very good reason but

381

00:17:01,420 --> 00:16:59,150

but the smaller monkeys you can play

382

00:17:02,860 --> 00:17:01,430

with and the smaller monkeys as soon as

383

00:17:04,630 --> 00:17:02,870

you held up a piece of fruit they took

384

00:17:06,130 --> 00:17:04,640

it away and ran away with it so I

385

00:17:08,170 --> 00:17:06,140

thought I could use this from magic

386

00:17:10,689 --> 00:17:08,180

trick so if you look on vine there's a

387

00:17:12,699 --> 00:17:10,699

tiny video of me making a grape

388

00:17:14,290 --> 00:17:12,709

disappear with the aid of one of these

389

00:17:16,000 --> 00:17:14,300

monkeys because as soon as he sees the

390

00:17:19,689 --> 00:17:16,010

the piece of fruit it takes it from me

391

00:17:21,340 --> 00:17:19,699

and runs off so I made that but then

392

00:17:23,590 --> 00:17:21,350

that got me thinking about how you would

393

00:17:25,630 --> 00:17:23,600

actually make a ball disappear in the

394

00:17:28,240 --> 00:17:25,640

position I was holding it which is

395

00:17:30,220 --> 00:17:28,250

monkey which is the genesis of the the

396

00:17:31,570 --> 00:17:30,230

YouTube clip so so there we go lots of

397

00:17:33,310 --> 00:17:31,580

information you didn't want to know

398

00:17:36,390 --> 00:17:33,320

about the genesis of the vanishing red

399

00:17:38,860 --> 00:17:36,400

ball well it's what's fabulous is every

400

00:17:41,080 --> 00:17:38,870

word regular intervals I don't know if

401
00:17:42,610 --> 00:17:41,090
you you have a decision that there every

402
00:17:44,590 --> 00:17:42,620
month or every six months or 3 30

403
00:17:47,380 --> 00:17:44,600
whatever the case may be but regularly

404
00:17:50,380 --> 00:17:47,390
you put up a new video where something

405
00:17:52,360 --> 00:17:50,390
miraculous will happen and it gives the

406
00:17:54,430 --> 00:17:52,370
people like me the chance to try it and

407
00:17:58,150 --> 00:17:54,440
work it out to the best of our ability

408
00:18:00,640 --> 00:17:58,160
that one I thought of every possible

409
00:18:02,920 --> 00:18:00,650
conceivable thing you are doing but but

410
00:18:06,670 --> 00:18:02,930
when I did I ruled out camera tricks as

411
00:18:08,110 --> 00:18:06,680
in funny editing shall I say yeah like

412
00:18:09,910 --> 00:18:08,120
that's the one thing we never knew we

413
00:18:12,040 --> 00:18:09,920

never edit we will never use a camera

414

00:18:13,870 --> 00:18:12,050

tricks oh so what you're seeing is what

415

00:18:17,590 --> 00:18:13,880

you would see if you're standing exactly

416

00:18:18,820 --> 00:18:17,600

where the cameras yeah yes yeah and and

417

00:18:21,580 --> 00:18:18,830

we love the fact that it drives people

418

00:18:23,470 --> 00:18:21,590

mad so there's lots of magicians that

419

00:18:25,120 --> 00:18:23,480

will just watch again again trying to

420

00:18:27,670 --> 00:18:25,130

work out the method that's the part of

421

00:18:29,710 --> 00:18:27,680

the fun of it and yeah but they are

422

00:18:31,300 --> 00:18:29,720

incredibly hard to come up with because

423

00:18:33,850 --> 00:18:31,310

you know you've got to come up these

424

00:18:36,040 --> 00:18:33,860

fresh ideas and then film it and so on

425

00:18:38,350 --> 00:18:36,050

but there's so much fun so yeah I hope

426
00:18:41,500 --> 00:18:38,360
people enjoy their ecology videos well

427
00:18:43,750 --> 00:18:41,510
and it began with a wonderful one you

428
00:18:47,440 --> 00:18:43,760
did with a card trick sitting at a table

429
00:18:49,180 --> 00:18:47,450
with the or a friend and we're all

430
00:18:49,910 --> 00:18:49,190
concentrating on the card trick which is

431
00:18:51,770 --> 00:18:49,920
very interesting

432
00:18:53,090 --> 00:18:51,780
but unbeknownst to us all sorts of other

433
00:18:54,560 --> 00:18:53,100
things are happening in the video I

434
00:18:58,870 --> 00:18:54,570
won't spoil it for people who haven't

435
00:19:01,790 --> 00:18:58,880
seen it but that's very famous video the

436
00:19:03,740 --> 00:19:01,800
yeah it's years ago now at three or four

437
00:19:06,320 --> 00:19:03,750
years ago since that was put online and

438
00:19:08,570 --> 00:19:06,330

it's been copied which is what do they

439

00:19:11,000 --> 00:19:08,580

say to sincere form of flattery when you

440

00:19:12,440 --> 00:19:11,010

copy something yeah lots of people have

441

00:19:13,850 --> 00:19:12,450

done their own versions which is fine

442

00:19:16,340 --> 00:19:13,860

actually I mean that that's part of the

443

00:19:19,610 --> 00:19:16,350

joy of YouTube is to see people sort of

444

00:19:21,190 --> 00:19:19,620

riffing on it and yeah one of the nicest

445

00:19:23,240 --> 00:19:21,200

things that happen that went online

446

00:19:25,640 --> 00:19:23,250

actually the original goes back a long

447

00:19:28,730 --> 00:19:25,650

way the original go back to was 2009 and

448

00:19:30,290 --> 00:19:28,740

it went online and about I know about

449

00:19:32,800 --> 00:19:30,300

two or three months later had an email

450

00:19:35,900 --> 00:19:32,810

from teller out of penn & teller and

451

00:19:37,130 --> 00:19:35,910

Teller said we love this this video we

452

00:19:38,990 --> 00:19:37,140

would like to use it as sort of an

453

00:19:40,640 --> 00:19:39,000

inspiration for a piece that we're going

454

00:19:43,400 --> 00:19:40,650

to perform I said oh well that's great

455

00:19:45,560 --> 00:19:43,410

and then next time I was in Vegas I went

456

00:19:47,360 --> 00:19:45,570

to their live show and indeed every

457

00:19:49,700 --> 00:19:47,370

night they do a piece which is based on

458

00:19:51,170 --> 00:19:49,710

the color changing card trick and so

459

00:19:53,090 --> 00:19:51,180

it's so lovely their thought that

460

00:19:55,760 --> 00:19:53,100

started off in my head and then went on

461

00:19:57,530 --> 00:19:55,770

to YouTube then inspires or two of my

462

00:19:59,630 --> 00:19:57,540

heroes to do something amazing in Vegas

463

00:20:01,730 --> 00:19:59,640

every night so that the joy of YouTube

464

00:20:06,320 --> 00:20:01,740

is you never know who's watching yes

465

00:20:09,110 --> 00:20:06,330

absolutely and you must get some

466

00:20:11,750 --> 00:20:09,120

criticism and I let me use that as a

467

00:20:14,300 --> 00:20:11,760

segue because what you're also known for

468

00:20:17,630 --> 00:20:14,310

although it's now retreating into the

469

00:20:21,740 --> 00:20:17,640

dark dim past now is a bit of a

470

00:20:23,890 --> 00:20:21,750

background folks in 1986 or the late 80s

471

00:20:27,010 --> 00:20:23,900

there were reports of a so-called

472

00:20:30,290 --> 00:20:27,020

telepathic dog in a place called

473

00:20:34,340 --> 00:20:30,300

ramsbottom called JT I'm not making any

474

00:20:37,880 --> 00:20:34,350

of this up and JT's owner that was under

475

00:20:39,830 --> 00:20:37,890

the impression that JT knew when she was

476

00:20:41,720 --> 00:20:39,840

returning home and would wait by the

477

00:20:43,940 --> 00:20:41,730

window even if she was miles away in

478

00:20:47,000 --> 00:20:43,950

town or somewhere else or whatever the

479

00:20:48,860 --> 00:20:47,010

case may be and Rupert Sheldrake who a

480

00:20:50,750 --> 00:20:48,870

lot of our listeners that he'll they'll

481

00:20:52,940 --> 00:20:50,760

know that name conducted a series of

482

00:20:53,990 --> 00:20:52,950

experiments with JT the dog and came to

483

00:20:57,590 --> 00:20:54,000

the conclusion that there was a

484

00:20:59,810 --> 00:20:57,600

telepathic connection and then you came

485

00:21:01,540 --> 00:20:59,820

along did your own experiments which

486

00:21:03,840 --> 00:21:01,550

sort of indicated that there wasn't

487

00:21:05,669 --> 00:21:03,850

which and it's all on YouTube

488

00:21:07,740 --> 00:21:05,679

you can check this out i was just

489

00:21:11,640 --> 00:21:07,750

refreshing my memory today and wow you

490

00:21:14,010 --> 00:21:11,650

look so young some of these videos i'm

491

00:21:17,730 --> 00:21:14,020

using filled a week ago Oh was it yet um

492

00:21:18,930 --> 00:21:17,740

and and I just before we can run e I was

493

00:21:21,570 --> 00:21:18,940

just having a quick chat to you and I

494

00:21:23,310 --> 00:21:21,580

was saying that Rupert Sheldrake I guess

495

00:21:24,600 --> 00:21:23,320

he's still a bit sore about the fact

496

00:21:27,060 --> 00:21:24,610

that you came along and had a look at

497

00:21:29,430 --> 00:21:27,070

this because just in the last six months

498

00:21:32,549 --> 00:21:29,440

or so he with Pam smart the dog's owner

499

00:21:34,560 --> 00:21:32,559

have put up a video basically whinging

500

00:21:37,080 --> 00:21:34,570

as we say about the fact that you came

501
00:21:38,700 --> 00:21:37,090
along and tried to debunk it and they

502
00:21:41,100 --> 00:21:38,710
say in this video that you completely

503
00:21:43,100 --> 00:21:41,110
failed to to debunk the fact that this

504
00:21:46,649 --> 00:21:43,110
dog had telepathic magical powers that

505
00:21:49,470 --> 00:21:46,659
must have been an interesting time it

506
00:21:51,029 --> 00:21:49,480
was I mean it started off as you said me

507
00:21:52,409 --> 00:21:51,039
many years ago i seed struggling to

508
00:21:55,980 --> 00:21:52,419
remember half of what happened now but

509
00:21:59,010 --> 00:21:55,990
it started off on the Paul McKenna world

510
00:22:02,430 --> 00:21:59,020
of the paranormal which was a TV show

511
00:22:05,310 --> 00:22:02,440
over here big TV show and they had a

512
00:22:07,350 --> 00:22:05,320
footage from I think an Austrian

513
00:22:12,330 --> 00:22:07,360

television crew which had carried out an

514

00:22:15,149 --> 00:22:12,340

experiment with with JT and they only

515

00:22:17,490 --> 00:22:15,159

had the footage where JT was going to

516

00:22:19,799 --> 00:22:17,500

the window as his owner which is Pam was

517

00:22:22,080 --> 00:22:19,809

returning and then I was the source

518

00:22:23,010 --> 00:22:22,090

skeptic in the studio and said well the

519

00:22:24,180 --> 00:22:23,020

problem here is we don't know what's

520

00:22:25,740 --> 00:22:24,190

happening the rest of the time maybe

521

00:22:28,620 --> 00:22:25,750

he's constantly going to the window and

522

00:22:30,870 --> 00:22:28,630

so Rupert who's investigating JT at the

523

00:22:33,180 --> 00:22:30,880

time with Pam said why don't you come up

524

00:22:35,190 --> 00:22:33,190

and conduct your own experiments and so

525

00:22:38,520 --> 00:22:35,200

Matt Smith and I who's my research

526

00:22:40,500 --> 00:22:38,530

assistant the time we drove up we did to

527

00:22:42,210 --> 00:22:40,510

experiment didn't think that some the

528

00:22:43,500 --> 00:22:42,220

dog was psychic we then returned again

529

00:22:45,930 --> 00:22:43,510

did another two didn't think they're

530

00:22:48,210 --> 00:22:45,940

psychic and wrote that up and then

531

00:22:49,980 --> 00:22:48,220

Rupert sort of maintained that it was a

532

00:22:52,110 --> 00:22:49,990

statistical effect in there wasn't a

533

00:22:53,399 --> 00:22:52,120

sore directly observable big effect

534

00:22:55,620 --> 00:22:53,409

there was still something a bit odd

535

00:22:57,779 --> 00:22:55,630

about the dog's behavior and so

536

00:23:00,060 --> 00:22:57,789

criticize our work and then for the next

537

00:23:01,500 --> 00:23:00,070

sort of five or six years or something

538

00:23:03,620 --> 00:23:01,510

like that the two of us have gone back

539

00:23:06,060 --> 00:23:03,630

and forth with increasingly complicated

540

00:23:07,950 --> 00:23:06,070

papers about whether or not the dog is

541

00:23:09,659 --> 00:23:07,960

psychic and just to see sort of two

542

00:23:11,940 --> 00:23:09,669

grown men arguing about whether this

543

00:23:15,270 --> 00:23:11,950

very lovely dog unfortunately passed

544

00:23:16,740 --> 00:23:15,280

away now but was psychic is quite site

545

00:23:17,700 --> 00:23:16,750

and he's all on the web if people want

546

00:23:20,130 --> 00:23:17,710

to get into it all those

547

00:23:23,100 --> 00:23:20,140

bizarre out there I warn you now it's it

548

00:23:25,680 --> 00:23:23,110

is complicated but you know weirdly I'm

549

00:23:28,560 --> 00:23:25,690

kind of a fan of Rupert in in many ways

550

00:23:31,080 --> 00:23:28,570

because what he is fantastic at doing is

551

00:23:32,730 --> 00:23:31,090

is doing experiments out in the real

552

00:23:34,289 --> 00:23:32,740

world that are relevant to people's

553

00:23:36,570 --> 00:23:34,299

lives and so whether it's the remote

554

00:23:38,880 --> 00:23:36,580

detection staring or the dog work and

555

00:23:40,560 --> 00:23:38,890

some his other work these carried out is

556

00:23:42,810 --> 00:23:40,570

actually I think actually doing the

557

00:23:44,760 --> 00:23:42,820

right sort of thing often I'm very

558

00:23:46,470 --> 00:23:44,770

critical his methods but I do think is

559

00:23:48,510 --> 00:23:46,480

very creative guy in a very pleasant guy

560

00:23:50,580 --> 00:23:48,520

so it sort of Saturn's maybe that we've

561

00:23:52,260 --> 00:23:50,590

crossed swords so many sometimes because

562

00:23:54,899 --> 00:23:52,270

I could imagine in a different context

563

00:23:56,940 --> 00:23:54,909

would be very close friends but that's

564

00:23:59,039 --> 00:23:56,950

the way it going goes in science and if

565

00:24:02,279 --> 00:23:59,049

you want to read the material it is all

566

00:24:04,230 --> 00:24:02,289

out there in gory detail you can decide

567

00:24:07,380 --> 00:24:04,240

for yourselves whether or not that dog

568

00:24:09,810 --> 00:24:07,390

psychic oh well we can decide for

569

00:24:12,029 --> 00:24:09,820

ourselves and what a PD JT is no longer

570

00:24:15,360 --> 00:24:12,039

with us maybe if we can get a pet

571

00:24:16,769 --> 00:24:15,370

psychic to a contact JT that would solve

572

00:24:18,570 --> 00:24:16,779

the prob their words that would clear it

573

00:24:20,909 --> 00:24:18,580

up we could ask JT directly are you

574

00:24:23,760 --> 00:24:20,919

psyched light i I don't know the

575

00:24:27,210 --> 00:24:23,770

psychics contact animals I i I'm sure

576

00:24:29,789 --> 00:24:27,220

they do I well I I don't that's a very

577

00:24:31,649 --> 00:24:29,799

good question um yesterday channel dead

578

00:24:33,360 --> 00:24:31,659

out maybe they do maybe they do oh we

579

00:24:35,510 --> 00:24:33,370

are there's a whole PhD thesis in there

580

00:24:38,789 --> 00:24:35,520

for someone not me no it's either I

581

00:24:39,779 --> 00:24:38,799

think that quite clear I don't know if

582

00:24:41,760 --> 00:24:39,789

you've caught up with the fact that

583

00:24:43,529 --> 00:24:41,770

there's a university here in Wollongong

584

00:24:47,880 --> 00:24:43,539

who just recently awarded a PhD to

585

00:24:49,049 --> 00:24:47,890

someone who wrote a thesis on extolling

586

00:24:51,600 --> 00:24:49,059

the virtue of anti-vaccination

587

00:24:53,159 --> 00:24:51,610

conspiracy theories from from a point of

588

00:24:54,960 --> 00:24:53,169

view of being in and evac so it's it's

589

00:24:56,700 --> 00:24:54,970

mind boggling so maybe I can get a PhD

590

00:24:59,220 --> 00:24:56,710

at the woman got University of

591

00:25:02,789 --> 00:24:59,230

Wollongong I think a lot channeling Adam

592

00:25:04,320 --> 00:25:02,799

ungentle and I think so yes no doubt now

593

00:25:06,029 --> 00:25:04,330

let's have a quick chat about some of

594

00:25:07,710 --> 00:25:06,039

your books of course you don't just do

595

00:25:10,169 --> 00:25:07,720

research papers you don't just do

596

00:25:12,750 --> 00:25:10,179

marvelous online videos you don't just

597

00:25:16,470 --> 00:25:12,760

talk to psychic dogs you write books I

598

00:25:19,620 --> 00:25:16,480

do you do yes far too many silence a

599

00:25:21,779 --> 00:25:19,630

fatty not not me I owe you understand or

600

00:25:23,279 --> 00:25:21,789

my publisher but others was say no

601
00:25:25,500 --> 00:25:23,289
everyone I've written was the last one

602
00:25:27,720 --> 00:25:25,510
I've just written ones coming out

603
00:25:30,120 --> 00:25:27,730
towards the end of this year but the one

604
00:25:31,710 --> 00:25:30,130
before that was called night school and

605
00:25:34,049 --> 00:25:31,720
all about the

606
00:25:36,450 --> 00:25:34,059
ients of sleep and dreaming which I love

607
00:25:39,000 --> 00:25:36,460
I become absolutely fascinated know if I

608
00:25:41,610 --> 00:25:39,010
did you have an appt about that i think

609
00:25:43,649 --> 00:25:41,620
yes yes yeah that was the so there to

610
00:25:45,270 --> 00:25:43,659
sort of pathways into the book one was

611
00:25:47,760 --> 00:25:45,280
that I used to suffer from night terrors

612
00:25:49,500 --> 00:25:47,770
when I was an adult actually as unusual

613
00:25:51,840 --> 00:25:49,510

I didn't have them as a kid had them as

614

00:25:54,960 --> 00:25:51,850

an adult and people don't know that's

615

00:25:56,610 --> 00:25:54,970

where you sit up in bed you appear to be

616

00:25:58,470 --> 00:25:56,620

awake because your eyes are open but you

617

00:26:00,690 --> 00:25:58,480

you're not actually you're in them on

618

00:26:02,460 --> 00:26:00,700

deepest forms asleep and you think

619

00:26:04,260 --> 00:26:02,470

there's some kind of weird entities some

620

00:26:08,220 --> 00:26:04,270

normally sort of demonic entity in the

621

00:26:10,529 --> 00:26:08,230

room and you scream out and what's sort

622

00:26:12,419 --> 00:26:10,539

of vaguely amusing about it is if you're

623

00:26:13,980 --> 00:26:12,429

sleeping next to somebody else they

624

00:26:16,799 --> 00:26:13,990

genuinely wake up because you've just

625

00:26:18,360 --> 00:26:16,809

screamed out so they wake up and they're

626

00:26:20,039 --> 00:26:18,370

knobs in full waking state and

627

00:26:21,779 --> 00:26:20,049

adrenaline going and heart beating and

628

00:26:24,390 --> 00:26:21,789

then you just fall straight back to

629

00:26:27,480 --> 00:26:24,400

sleep leaving them fully awake another

630

00:26:28,950 --> 00:26:27,490

of the next kind of hour or so so it's

631

00:26:31,890 --> 00:26:28,960

more terrifying for them in some ways

632

00:26:34,500 --> 00:26:31,900

certainly more problematic for them than

633

00:26:35,490 --> 00:26:34,510

it is for the person suffering one so

634

00:26:37,680 --> 00:26:35,500

did though they had those for a while

635

00:26:40,890 --> 00:26:37,690

and got fascinated by what was happening

636

00:26:42,510 --> 00:26:40,900

in my mind and and then turn part of it

637

00:26:44,520 --> 00:26:42,520

was simply sleeping in the room that was

638

00:26:45,840 --> 00:26:44,530

too hot and when she bring the

639

00:26:47,820 --> 00:26:45,850

temperature down in the room you don't

640

00:26:50,399 --> 00:26:47,830

have them quite so much so I now sleep

641

00:26:52,620 --> 00:26:50,409

in essentially an ice box which is it's

642

00:26:56,580 --> 00:26:52,630

delightful for caroline has to sleep

643

00:26:59,039 --> 00:26:56,590

next to me so anyway that's what it so

644

00:27:02,669 --> 00:26:59,049

there's that and then around the same

645

00:27:04,680 --> 00:27:02,679

time I was talking to an appt company

646

00:27:06,419 --> 00:27:04,690

I'd read some research about what's

647

00:27:07,799 --> 00:27:06,429

called dream intrusion which is that

648

00:27:10,710 --> 00:27:07,809

when you dream although you're blind

649

00:27:12,060 --> 00:27:10,720

you're not deaf you can hear sounds and

650

00:27:14,909 --> 00:27:12,070

often you incorporate them into your

651
00:27:16,890 --> 00:27:14,919
dream so you may hear an alarm clock go

652
00:27:18,840 --> 00:27:16,900
off and you hear it as church bells for

653
00:27:21,029 --> 00:27:18,850
example in your dreams are a common one

654
00:27:24,330 --> 00:27:21,039
and there was a little bit of research

655
00:27:25,950 --> 00:27:24,340
in 1970s very easy tarek work which

656
00:27:27,510 --> 00:27:25,960
looked at what happened when you played

657
00:27:28,830 --> 00:27:27,520
in sounds to people when they were

658
00:27:31,020 --> 00:27:28,840
dreaming you know if that's Pleasant

659
00:27:32,430 --> 00:27:31,030
sounds or whatever it is anyway they

660
00:27:34,529 --> 00:27:32,440
found that that yes indeed you could

661
00:27:36,750 --> 00:27:34,539
influence people's dreams so we make it

662
00:27:38,520 --> 00:27:36,760
that made an appt out of it we ask

663
00:27:41,669 --> 00:27:38,530

people to say on the app what time they

664

00:27:43,169 --> 00:27:41,679

wanted to wake up in the 45 minutes or

665

00:27:46,109 --> 00:27:43,179

so before you wake up you're almost

666

00:27:48,719 --> 00:27:46,119

certainly dreaming and so the app would

667

00:27:51,089 --> 00:27:48,729

quietly play in a soundscape of your

668

00:27:53,309 --> 00:27:51,099

choice so you could decide to go for a

669

00:27:54,929 --> 00:27:53,319

walk in the country you could go for a

670

00:27:56,819 --> 00:27:54,939

walk along the beach you could be

671

00:27:59,009 --> 00:27:56,829

attacked by zombies whatever you wanted

672

00:28:01,469 --> 00:27:59,019

the weather we have a soundscape for it

673

00:28:04,829 --> 00:28:01,479

and then in the morning oh and you did

674

00:28:07,139 --> 00:28:04,839

wake up the app would ask you to type in

675

00:28:10,049 --> 00:28:07,149

your dream and we collected millions of

676

00:28:12,299 --> 00:28:10,059

dream reports and also found that the

677

00:28:14,159 --> 00:28:12,309

soundscapes were indeed and in terms of

678

00:28:16,019 --> 00:28:14,169

the nature ones at least making people

679

00:28:18,389 --> 00:28:16,029

feel more relaxed and they were having

680

00:28:20,129 --> 00:28:18,399

less dreams that's interesting because

681

00:28:24,089 --> 00:28:20,139

often I'll fall asleep with the in bugs

682

00:28:27,119 --> 00:28:24,099

in and I'm listening to the podcast or

683

00:28:29,069 --> 00:28:27,129

some radio show or something and if if I

684

00:28:30,629 --> 00:28:29,079

don't set the timer and the Vice

685

00:28:32,579 --> 00:28:30,639

switches itself off it'll often play

686

00:28:35,249 --> 00:28:32,589

right through the night and but it

687

00:28:41,099 --> 00:28:35,259

during the wee hours or not long before

688

00:28:43,009 --> 00:28:41,109

waking I distinctly remember the podcast

689

00:28:45,629 --> 00:28:43,019

or the people speaking being

690

00:28:48,539 --> 00:28:45,639

incorporated into the dream it's quite

691

00:28:49,949 --> 00:28:48,549

quite quite weird it is it is very weird

692

00:28:52,259 --> 00:28:49,959

and so if you were particularly light

693

00:28:53,639 --> 00:28:52,269

sleepers it's very likely to happen if

694

00:28:54,929 --> 00:28:53,649

people are struggling to sleep i

695

00:28:56,699 --> 00:28:54,939

obviously i wouldn't recommend your

696

00:28:59,519 --> 00:28:56,709

podcast because this will give anyone a

697

00:29:02,249 --> 00:28:59,529

muumu is my stimulating conversation

698

00:29:04,229 --> 00:29:02,259

but there is that yeah we created some

699

00:29:06,029 --> 00:29:04,239

music which is free on YouTube which

700

00:29:08,369 --> 00:29:06,039

people can listen to very relaxing music

701
00:29:10,559 --> 00:29:08,379
but also there's another podcast called

702
00:29:14,309 --> 00:29:10,569
I think sleep with me which is a guy

703
00:29:16,409 --> 00:29:14,319
just talking gibberish so it makes no

704
00:29:18,029 --> 00:29:16,419
sense at all I feel like I'm in

705
00:29:20,969 --> 00:29:18,039
conversation with me it makes no sense

706
00:29:22,709 --> 00:29:20,979
at all but as you because it's quite

707
00:29:24,689 --> 00:29:22,719
hard to try and make sense of it it's

708
00:29:26,309 --> 00:29:24,699
actually it does put you to sleep and

709
00:29:28,049 --> 00:29:26,319
it's been very effective many many

710
00:29:30,569 --> 00:29:28,059
download so i always recommend that to

711
00:29:32,909 --> 00:29:30,579
people and so yeah so I've become

712
00:29:35,429 --> 00:29:32,919
fascinated by by sleep and dreaming that

713
00:29:38,219 --> 00:29:35,439

well I try it myself although I I'm

714

00:29:39,689 --> 00:29:38,229

since I've started this process of

715

00:29:42,119 --> 00:29:39,699

listening to something as I'm falling

716

00:29:45,779 --> 00:29:42,129

asleep I've got quite addicted to it I

717

00:29:48,659 --> 00:29:45,789

guess I and now if I if I'm in a quiet

718

00:29:50,729 --> 00:29:48,669

place with no noise of dead quiet in a

719

00:29:54,359 --> 00:29:50,739

hotel room or something like that it's

720

00:29:56,309 --> 00:29:54,369

it's to Erie it's the old case of people

721

00:29:58,670 --> 00:29:56,319

can sleep better if they hear the rain

722

00:30:00,350 --> 00:29:58,680

on the roof or something or the sea

723

00:30:02,690 --> 00:30:00,360

wind or something like that it's an

724

00:30:05,270 --> 00:30:02,700

interesting phenomenon that that's right

725

00:30:06,590 --> 00:30:05,280

i mean Sean saying repetitive and not

726
00:30:09,590 --> 00:30:06,600
too much of happening in there and then

727
00:30:11,930 --> 00:30:09,600
and so on so yeah so there you know we

728
00:30:13,010 --> 00:30:11,940
spend about a third of our lives asleep

729
00:30:15,470 --> 00:30:13,020
and about a quarter of that time

730
00:30:18,320 --> 00:30:15,480
dreaming and we just don't think we turn

731
00:30:19,940 --> 00:30:18,330
off our minds and it just so isn't the

732
00:30:21,920 --> 00:30:19,950
case i means always sleep science

733
00:30:23,930 --> 00:30:21,930
showing that you're in a different stage

734
00:30:25,400 --> 00:30:23,940
of consciousness and that is absolutely

735
00:30:28,310 --> 00:30:25,410
vital for psychological and physical

736
00:30:30,080 --> 00:30:28,320
well-being and yet because of what's

737
00:30:32,690 --> 00:30:30,090
happening with 24-hour media and the web

738
00:30:34,700 --> 00:30:32,700

and so on with squeezing sleep time and

739

00:30:36,920 --> 00:30:34,710

then and trans benders little time as

740

00:30:39,680 --> 00:30:36,930

possible in bed to sleep particularly

741

00:30:40,790 --> 00:30:39,690

teenagers and kids and we really need to

742

00:30:43,580 --> 00:30:40,800

be doing the opposite we need to

743

00:30:44,780 --> 00:30:43,590

recognize that the sleep is in every

744

00:30:46,580 --> 00:30:44,790

pretty much every animal in the world

745

00:30:51,710 --> 00:30:46,590

for a reason you know it plays a vital

746

00:30:54,050 --> 00:30:51,720

role in our lives absolutely now Richard

747

00:30:56,600 --> 00:30:54,060

I understand that you're also um at

748

00:30:58,220 --> 00:30:56,610

least on the fringes somewhat involved

749

00:30:59,630 --> 00:30:58,230

with the good thinking society and our

750

00:31:01,400 --> 00:30:59,640

good friends at the good thinking

751
00:31:04,100 --> 00:31:01,410
society Michael Marshall and Simon Singh

752
00:31:06,230 --> 00:31:04,110
that must be interesting it is

753
00:31:09,140 --> 00:31:06,240
interesting in fact the name the good

754
00:31:10,910 --> 00:31:09,150
thinking society is my idea is a Simon

755
00:31:12,020 --> 00:31:10,920
yes I'm came to me a few years ago and

756
00:31:14,660 --> 00:31:12,030
he said he's thinking of setting up a

757
00:31:15,800 --> 00:31:14,670
charity and he had various ideas when

758
00:31:17,120 --> 00:31:15,810
kick summer allies were about good

759
00:31:20,390 --> 00:31:17,130
thinking society and that's that's

760
00:31:23,750 --> 00:31:20,400
what's done and they're doing great work

761
00:31:26,030 --> 00:31:23,760
so yet mar she works with him they've

762
00:31:30,290 --> 00:31:26,040
done some sort of we work on and sort of

763
00:31:32,870 --> 00:31:30,300

homeopathy in the NHS and yet so great

764

00:31:34,690 --> 00:31:32,880

to see you know it sort of speaks and

765

00:31:37,460 --> 00:31:34,700

I've seen this more and more actually

766

00:31:40,580 --> 00:31:37,470

across the world it speaks to the power

767

00:31:42,650 --> 00:31:40,590

of one or two people you know often the

768

00:31:44,870 --> 00:31:42,660

two of them are accomplishing more than

769

00:31:46,640 --> 00:31:44,880

20 or 30 people in a bigger organization

770

00:31:48,560 --> 00:31:46,650

just across the other side of town yeah

771

00:31:50,750 --> 00:31:48,570

and it always reminds me of you know

772

00:31:53,330 --> 00:31:50,760

someone like Randy where you kind of

773

00:31:56,360 --> 00:31:53,340

think it's it's just one guy you know

774

00:31:59,810 --> 00:31:56,370

he's not even especially tall oh it's

775

00:32:01,880 --> 00:31:59,820

much your guy but my goodness look at

776

00:32:04,220 --> 00:32:01,890

what he accomplished yo the I don't have

777

00:32:07,280 --> 00:32:04,230

you seen the the honest liar documentary

778

00:32:10,670 --> 00:32:07,290

oh yes I I'm almost in it are you almost

779

00:32:11,710 --> 00:32:10,680

there they were filming a big section of

780

00:32:13,419 --> 00:32:11,720

that one

781

00:32:15,970 --> 00:32:13,429

during the amazing meeting and I was in

782

00:32:17,980 --> 00:32:15,980

a big conference with Randy and banachek

783

00:32:19,360 --> 00:32:17,990

and some other people in my role as

784

00:32:21,640 --> 00:32:19,370

being on the million-dollar committee

785

00:32:23,950 --> 00:32:21,650

and and out of the corner of my eye

786

00:32:26,440 --> 00:32:23,960

there's this camera crew circling us

787

00:32:28,450 --> 00:32:26,450

like vultures and that that was the

788

00:32:29,860 --> 00:32:28,460

camera crew for an honest lie and when I

789

00:32:31,750 --> 00:32:29,870

went to see the movie I thought I might

790

00:32:34,360 --> 00:32:31,760

see myself but I just ended up on the

791

00:32:37,930 --> 00:32:34,370

cutting room floor but uh well the best

792

00:32:39,250 --> 00:32:37,940

of us um hate it it's great you mean

793

00:32:42,100 --> 00:32:39,260

wonderful movie and and it just sort of

794

00:32:44,770 --> 00:32:42,110

shows you you know one person has

795

00:32:46,480 --> 00:32:44,780

accomplished and so sometimes you know I

796

00:32:47,919 --> 00:32:46,490

think we get a bit something to get it

797

00:32:49,810 --> 00:32:47,929

down and go you know there's just this

798

00:32:52,390 --> 00:32:49,820

lone voice of skepticism and what

799

00:32:54,880 --> 00:32:52,400

different well then look at Simon look

800

00:32:56,500 --> 00:32:54,890

at Randy you know these are individuals

801
00:32:58,990 --> 00:32:56,510
or a talented individuals nevertheless

802
00:33:00,700 --> 00:32:59,000
but just one person making a huge

803
00:33:02,560 --> 00:33:00,710
difference so yeah impressed by that the

804
00:33:04,600 --> 00:33:02,570
good thinking society it's yeah it's

805
00:33:06,039 --> 00:33:04,610
good and we certainly are good friends

806
00:33:08,560 --> 00:33:06,049
with a good thinking society here the

807
00:33:10,180 --> 00:33:08,570
skeptic salmon we promote them whenever

808
00:33:11,740 --> 00:33:10,190
we can in fact Michael Marshall is a

809
00:33:13,720 --> 00:33:11,750
regular guest on the show and I'm always

810
00:33:16,870 --> 00:33:13,730
delighted to have him before we wrap up

811
00:33:18,159 --> 00:33:16,880
Richard and I'll add this link to the to

812
00:33:20,710 --> 00:33:18,169
the show notes although it's easy to

813
00:33:24,000 --> 00:33:20,720

find folks if you want to hear a very

814

00:33:26,890 --> 00:33:24,010

pleasant chat with Richard Wiseman in

815

00:33:29,320 --> 00:33:26,900

2012 i visited edinburgh and Richard and

816

00:33:31,539 --> 00:33:29,330

I had a stroll along the streets and

817

00:33:33,520 --> 00:33:31,549

down by the river and we just had a chat

818

00:33:35,529 --> 00:33:33,530

about skepticism in general and all

819

00:33:39,880 --> 00:33:35,539

sorts of things now that's on the

820

00:33:41,980 --> 00:33:39,890

skeptic zone number episode number 176

821

00:33:44,020 --> 00:33:41,990

and that's from March 2012 and that was

822

00:33:46,899 --> 00:33:44,030

a very pleasant afternoon I spent with

823

00:33:48,399 --> 00:33:46,909

you wandering around Edinburgh it was

824

00:33:50,380 --> 00:33:48,409

very nice i remember that was it all

825

00:33:53,649 --> 00:33:50,390

those he cuz that almost swell 34 years

826
00:33:55,779 --> 00:33:53,659
ago my goodness yeah it's I know I I had

827
00:33:57,640 --> 00:33:55,789
to remind myself I had to look it up and

828
00:33:58,960 --> 00:33:57,650
see exactly when that was it doesn't

829
00:34:01,570 --> 00:33:58,970
seem like that long ago but that was a

830
00:34:04,950 --> 00:34:01,580
very doesn't yeah and I and I was very

831
00:34:07,149 --> 00:34:04,960
pleased that visit to I also spoke at

832
00:34:09,310 --> 00:34:07,159
skeptics in the pub I think in Edinburgh

833
00:34:11,020 --> 00:34:09,320
which was very good was a big thrill and

834
00:34:14,109 --> 00:34:11,030
then you and I I think subsequent will

835
00:34:15,609 --> 00:34:14,119
he went down to Manchester for QED yes

836
00:34:17,589 --> 00:34:15,619
qet is great which of course you know

837
00:34:19,810 --> 00:34:17,599
Marsh who spoke about earlier on the

838
00:34:21,550 --> 00:34:19,820

good thinking society helps run QED so

839

00:34:22,780 --> 00:34:21,560

yeah and again another example of a

840

00:34:24,970 --> 00:34:22,790

fairly small group of people I think

841

00:34:27,310 --> 00:34:24,980

about six of them run this

842

00:34:28,810 --> 00:34:27,320

skeptics convention which is probably

843

00:34:32,530 --> 00:34:28,820

the certainly the best skeptical event

844

00:34:33,609 --> 00:34:32,540

in the UK you know and just just amazing

845

00:34:35,889 --> 00:34:33,619

what people can do and they put their

846

00:34:38,830 --> 00:34:35,899

minds to it yes and if there's any

847

00:34:41,290 --> 00:34:38,840

airline out there which I can suck up to

848

00:34:43,990 --> 00:34:41,300

Qantas hello british airways left hand

849

00:34:46,450 --> 00:34:44,000

so i don't care bulgarian air if you

850

00:34:47,980 --> 00:34:46,460

want to get me a tickets to go to QED i

851
00:34:50,710 --> 00:34:47,990
will certainly speak highly of your

852
00:34:53,740 --> 00:34:50,720
airline mm-hmm you could you could you

853
00:34:55,480 --> 00:34:53,750
can you boat it go get you just a couple

854
00:34:57,910 --> 00:34:55,490
of yeah I've seen this or rowing boats

855
00:34:59,470 --> 00:34:57,920
and those people oh it can't be that far

856
00:35:01,990 --> 00:34:59,480
you could just you could just come

857
00:35:03,609 --> 00:35:02,000
around somewhere and and just um yeah

858
00:35:06,970 --> 00:35:03,619
just poke the whole thing I could and

859
00:35:09,970 --> 00:35:06,980
and I the exercise I could gain doing

860
00:35:12,220 --> 00:35:09,980
that would let me m feast out at QED I

861
00:35:13,870 --> 00:35:12,230
think that's a very good idea I think so

862
00:35:15,490 --> 00:35:13,880
I if you set up a Kickstarter from that

863
00:35:21,340 --> 00:35:15,500

I think that's giving a lot of support

864

00:35:24,040 --> 00:35:21,350

that's all I'm saying I think no doubt

865

00:35:25,900 --> 00:35:24,050

no doubt Richard how can people catch up

866

00:35:29,230 --> 00:35:25,910

with your work where can they go where

867

00:35:31,630 --> 00:35:29,240

can a visit they can I guess come on

868

00:35:33,820 --> 00:35:31,640

twitter at richard wiseman on twitter I

869

00:35:36,220 --> 00:35:33,830

post lots of things there they can look

870

00:35:38,530 --> 00:35:36,230

at my website Richard Wiseman com they

871

00:35:40,599 --> 00:35:38,540

can look at my videos on YouTube with a

872

00:35:42,250 --> 00:35:40,609

quick ecology channel or they can come

873

00:35:43,930 --> 00:35:42,260

along and see me live which is my

874

00:35:45,849 --> 00:35:43,940

favorite thing for them to do come say

875

00:35:47,200 --> 00:35:45,859

hello afterwards so I give talks all

876

00:35:50,440 --> 00:35:47,210

over the place and I always post them on

877

00:35:51,910 --> 00:35:50,450

Twitter so um yeah come along that's the

878

00:35:54,130 --> 00:35:51,920

that's the ticket folks especially a

879

00:35:56,500 --> 00:35:54,140

follow richard on on twitter please

880

00:36:00,040 --> 00:35:56,510

subscribe to quirkology on youtube

881

00:36:01,660 --> 00:36:00,050

because you will be delighted absolutely

882

00:36:03,460 --> 00:36:01,670

delighted and quite mystified by the

883

00:36:06,930 --> 00:36:03,470

videos he puts up and when you see the

884

00:36:10,270 --> 00:36:06,940

solution to the problems you'll go oh

885

00:36:15,130 --> 00:36:10,280

yeah which is my reaction Richard

886

00:36:18,190 --> 00:36:15,140

Richard Wi-Fi sly people I have hope you

887

00:36:20,590 --> 00:36:18,200

sense it too like wonderin or wait

888

00:36:23,080 --> 00:36:20,600

that's what i meant i'm sorry i see i

889

00:36:25,570 --> 00:36:23,090

see it's just like that's the australian

890

00:36:27,340 --> 00:36:25,580

way of expressing delight and war in one

891

00:36:30,550 --> 00:36:27,350

day I see it's not that I felt

892

00:36:32,710 --> 00:36:30,560

disappointment oh no he's done lacking

893

00:36:34,299 --> 00:36:32,720

he's right he's been that he knows is

894

00:36:37,239 --> 00:36:34,309

that

895

00:36:39,039 --> 00:36:37,249

you stupid Richard Wiseman all the way

896

00:36:41,890 --> 00:36:39,049

from beautiful Edinburgh thank you very

897

00:37:15,130 --> 00:36:41,900

much a pleasure thank you very much for

898

00:37:17,979 --> 00:37:15,140

inviting me dr. Harriet hall md no one

899

00:37:20,380 --> 00:37:17,989

to thousands as the skeptic a retired

900

00:37:23,229 --> 00:37:20,390

family physician and former Air Force

901
00:37:25,179 --> 00:37:23,239
flight surgeon she writes about medicine

902
00:37:28,749 --> 00:37:25,189
so called complementary and alternative

903
00:37:32,109 --> 00:37:28,759
medicine science hi curry and critical

904
00:37:34,359 --> 00:37:32,119
thinking Harriet now has a free course a

905
00:37:37,410 --> 00:37:34,369
series of 10 video lectures on science

906
00:37:40,179 --> 00:37:37,420
based medicine and alternative medicine

907
00:37:42,400 --> 00:37:40,189
the videos and an accompanying course

908
00:37:46,509 --> 00:37:42,410
guide can be found by following the link

909
00:37:51,039 --> 00:37:46,519
at skeptic info or by visiting web

910
00:37:55,269 --> 00:37:51,049
Randy's org slash educational modules

911
00:37:57,999 --> 00:37:55,279
dot HTML topics covered in the series

912
00:38:01,140 --> 00:37:58,009
are science-based medicine vs.

913
00:38:04,529 --> 00:38:01,150

evidence-based medicine what is cam

914

00:38:07,749 --> 00:38:04,539

chiropractic acupuncture homeopathy

915

00:38:09,849 --> 00:38:07,759

naturopathy and herbal medicine energy

916

00:38:13,029 --> 00:38:09,859

medicine miscellaneous alternatives

917

00:38:16,319 --> 00:38:13,039

pitfalls in research and science-based

918

00:38:19,089 --> 00:38:16,329

medicine in the media and politics

919

00:38:21,640 --> 00:38:19,099

Harriet covers each topic in a matter of

920

00:38:35,470 --> 00:38:21,650

fact no-nonsense way that shorter

921

00:38:40,579 --> 00:38:37,910

welcome to a week in science from our

922

00:38:42,769 --> 00:38:40,589

iOS bringing you the science you need to

923

00:38:44,779 --> 00:38:42,779

know ever wanted to take a stroll on the

924

00:38:46,579 --> 00:38:44,789

surface of Mars may be analyzed some

925

00:38:48,680 --> 00:38:46,589

rock formations well thanks to a

926

00:38:50,359 --> 00:38:48,690

collaboration between NASA and Microsoft

927

00:39:01,099 --> 00:38:50,369

scientists are getting the chance to do

928

00:39:03,470 --> 00:39:01,109

just that although it's about 55 million

929

00:39:05,390 --> 00:39:03,480

kilometers away at best and at times as

930

00:39:08,000 --> 00:39:05,400

far as 400 million kilometers away

931

00:39:10,010 --> 00:39:08,010

thanks to virtual reality the surface of

932

00:39:12,349 --> 00:39:10,020

Mars has never been closer as long as

933

00:39:14,960 --> 00:39:12,359

you've got the right accessories strapon

934

00:39:16,579 --> 00:39:14,970

a microsoft hololens headset and fire up

935

00:39:19,190 --> 00:39:16,589

their on-site software and you'll be

936

00:39:21,230 --> 00:39:19,200

transported to another world using data

937

00:39:22,549 --> 00:39:21,240

from the Curiosity rover the virtual

938

00:39:24,620 --> 00:39:22,559

reality system creates a

939

00:39:27,470 --> 00:39:24,630

three-dimensional explorable planetary

940

00:39:29,960 --> 00:39:27,480

surface scientists can behave just like

941

00:39:31,309 --> 00:39:29,970

geologists do here on earth walking

942

00:39:33,500 --> 00:39:31,319

around an object to get a better view

943

00:39:35,599 --> 00:39:33,510

crouching down to inspect it from a new

944

00:39:37,519 --> 00:39:35,609

angle and understanding the spatial

945

00:39:42,049 --> 00:39:37,529

relationships between objects in a more

946

00:39:43,579 --> 00:39:42,059

natural human way researchers can also

947

00:39:44,930 --> 00:39:43,589

do things like target an object by

948

00:39:47,450 --> 00:39:44,940

looking at it and use gesture-based

949

00:39:49,160 --> 00:39:47,460

menus to program the rover the

950

00:39:51,769 --> 00:39:49,170

technology can bring together scientists

951
00:39:53,120 --> 00:39:51,779
from all over the world researchers from

952
00:39:54,859 --> 00:39:53,130
different countries can both wear

953
00:39:56,720 --> 00:39:54,869
headsets and access the same mars

954
00:39:59,450 --> 00:39:56,730
surface program communicating directly

955
00:40:01,549 --> 00:39:59,460
through the system NASA's next steps for

956
00:40:04,160 --> 00:40:01,559
exploring Mars are to send an orbiter in

957
00:40:07,099 --> 00:40:04,170
2016 participate in the European Space

958
00:40:10,279 --> 00:40:07,109
Agency's rover mission in 2018 and send

959
00:40:13,420 --> 00:40:10,289
that iron Rover in 2020 and now for fast

960
00:40:16,120 --> 00:40:13,430
facts about the red planet

961
00:40:18,309 --> 00:40:16,130
Mars is about half the size of Earth but

962
00:40:20,410 --> 00:40:18,319
the land area of both planets is about

963
00:40:23,200 --> 00:40:20,420

the same depending on planetary

964

00:40:26,230 --> 00:40:23,210

positions launch speed and fuel load it

965

00:40:28,030 --> 00:40:26,240

takes between 150 and 300 days the

966

00:40:30,760 --> 00:40:28,040

spacecraft to travel from Earth to Mars

967

00:40:33,970 --> 00:40:30,770

the first Mars rover the Pathfinder

968

00:40:36,180 --> 00:40:33,980

Surgenor landed in 1997 the spirit and

969

00:40:38,079 --> 00:40:36,190

the opportunity arrived in 2004 and

970

00:40:41,440 --> 00:40:38,089

curiosity has been patrolling the

971

00:40:43,540 --> 00:40:41,450

surface since 2012 curiosity has a

972

00:40:45,520 --> 00:40:43,550

tendency to take selfies but relies on

973

00:40:47,260 --> 00:40:45,530

its friends back on earth to digitally

974

00:40:49,809 --> 00:40:47,270

remove the extendable arm that takes the

975

00:40:51,880 --> 00:40:49,819

snap that's it for this week in science

976
00:40:56,380 --> 00:40:51,890
for more information on exploring Mars

977
00:40:59,319 --> 00:40:56,390
go to the rirs website RI aus org dot a

978
00:41:01,870 --> 00:40:59,329
you follow us on twitter at our iOS and

979
00:41:22,940 --> 00:41:01,880
like us on Facebook I'm Casey Harrigan

980
00:41:27,200 --> 00:41:24,920
be reasonable it's a podcast in the

981
00:41:29,359 --> 00:41:27,210
merseyside skeptics society hosted by

982
00:41:31,099 --> 00:41:29,369
Michael Marshall in each monthly

983
00:41:33,260 --> 00:41:31,109
interview we'll examine belief from

984
00:41:34,880 --> 00:41:33,270
outside of the mainstream exploring how

985
00:41:36,650 --> 00:41:34,890
those views are constructed and what

986
00:41:40,010 --> 00:41:36,660
evidence people feel supports their case

987
00:41:42,589 --> 00:41:40,020
on the latest episode I speak with dr.

988
00:41:46,370 --> 00:41:42,599

pol burn a pediatrician and prominent

989

00:41:49,099 --> 00:41:46,380

campaigner against organ donation you

990

00:41:52,490 --> 00:41:49,109

use the word market and yes it is market

991

00:41:56,030 --> 00:41:52,500

because the organ transplant industry is

992

00:41:58,760 --> 00:41:56,040

a multi-billion dollar industry and it

993

00:42:01,520 --> 00:41:58,770

all depends on getting healthy organs

994

00:42:04,099 --> 00:42:01,530

and the only place you get healthy

995

00:42:06,170 --> 00:42:04,109

organs from living persons hey what Paul

996

00:42:08,060 --> 00:42:06,180

has to say as well as downloading back

997

00:42:11,089 --> 00:42:08,070

issues of the show by going to

998

00:42:13,010 --> 00:42:11,099

Merseyside skeptics WK forward slash

999

00:42:23,360 --> 00:42:13,020

podcasts or by searching for be

1000

00:42:31,420 --> 00:42:28,020

here's my not spooky action at a

1001
00:42:36,050 --> 00:42:34,220
well a cub reporter may not here on the

1002
00:42:38,420 --> 00:42:36,060
scene now with the man who has been a

1003
00:42:40,130 --> 00:42:38,430
stick in the craw of a crutch of

1004
00:42:42,470 --> 00:42:40,140
something of the authorities over the

1005
00:42:43,970 --> 00:42:42,480
years it's ken harvey he's down on

1006
00:42:46,160 --> 00:42:43,980
everything really he's best known for

1007
00:42:48,080 --> 00:42:46,170
his anti crackery work around australia

1008
00:42:49,760 --> 00:42:48,090
but a bit of an activist and you've been

1009
00:42:51,710 --> 00:42:49,770
out there on behalf of the Friends of

1010
00:42:53,780 --> 00:42:51,720
science in medicine doing a few things

1011
00:42:54,830 --> 00:42:53,790
over the last well couple of months you

1012
00:42:58,250 --> 00:42:54,840
want to fill us in on what you been up

1013
00:43:00,860 --> 00:42:58,260

to ken yeah basically we've been having

1014

00:43:03,170 --> 00:43:00,870

got chiropractors certainly the crazy

1015

00:43:07,100 --> 00:43:03,180

proportion of chiropractors that believe

1016

00:43:10,040 --> 00:43:07,110

that or or complaints in mankind are

1017

00:43:12,410 --> 00:43:10,050

related to vertebral subluxation it's

1018

00:43:15,110 --> 00:43:12,420

the original doctrine of Parma and

1019

00:43:18,800 --> 00:43:15,120

therefore they believe that cracking was

1020

00:43:20,870 --> 00:43:18,810

spline I can cure anything now just

1021

00:43:22,670 --> 00:43:20,880

before you go any further can up look

1022

00:43:25,760 --> 00:43:22,680

like I've been confused over the years

1023

00:43:28,070 --> 00:43:25,770

between a homeopathy and naturopathy and

1024

00:43:29,990 --> 00:43:28,080

all those sort of things either some

1025

00:43:32,600 --> 00:43:30,000

chiropractors that are on the level and

1026
00:43:35,630 --> 00:43:32,610
do regular what you would call science

1027
00:43:38,090 --> 00:43:35,640
space medicine oh yes indeed and there's

1028
00:43:39,880 --> 00:43:38,100
a split quite distinct flit in the

1029
00:43:43,070 --> 00:43:39,890
Australian profession at least where

1030
00:43:46,160 --> 00:43:43,080
there's two new organizations as split

1031
00:43:48,380 --> 00:43:46,170
off from the original one but two new

1032
00:43:52,150 --> 00:43:48,390
guys to your organization's are

1033
00:43:54,860 --> 00:43:52,160
basically support musculoskeletal

1034
00:43:58,220 --> 00:43:54,870
treatments only for chiropractors

1035
00:44:00,530 --> 00:43:58,230
they've come out supporting the British

1036
00:44:04,490 --> 00:44:00,540
Chiropractic Association statement that

1037
00:44:07,100 --> 00:44:04,500
says subluxation is historical myth has

1038
00:44:10,400 --> 00:44:07,110

got no place in terms of treating

1039

00:44:12,080 --> 00:44:10,410

diseases today so it's good then and in

1040

00:44:14,570 --> 00:44:12,090

terms of the university's Murdoch

1041

00:44:17,150 --> 00:44:14,580

University in Western Australia this

1042

00:44:19,460 --> 00:44:17,160

school of chiropractic again is very

1043

00:44:21,950 --> 00:44:19,470

science-based evidence-based

1044

00:44:24,800 --> 00:44:21,960

musculoskeletal treatment only and on

1045

00:44:27,380 --> 00:44:24,810

their website they're very clear we do

1046

00:44:29,720 --> 00:44:27,390

not treat her Milly infections and other

1047

00:44:32,480 --> 00:44:29,730

things of that sort of our colleagues do

1048

00:44:35,630 --> 00:44:32,490

and where does it sit statistically if

1049

00:44:37,700 --> 00:44:35,640

you go to any chiropractor or what

1050

00:44:39,350 --> 00:44:37,710

does the chances is it like 5050 how

1051

00:44:43,380 --> 00:44:39,360

they split over this issue with the

1052

00:44:46,200 --> 00:44:43,390

spine well I don't know the numbers some

1053

00:44:48,599 --> 00:44:46,210

ties regrettably from looking at

1054

00:44:51,480 --> 00:44:48,609

websites and putting in complaints I

1055

00:44:54,660 --> 00:44:51,490

still suspect that probably the majority

1056

00:44:56,940 --> 00:44:54,670

well certainly at least 5050 of

1057

00:44:59,670 --> 00:44:56,950

chiropractors are the crazy variety

1058

00:45:01,950 --> 00:44:59,680

because there's hundreds of websites out

1059

00:45:04,680 --> 00:45:01,960

there promoting chiropractic for

1060

00:45:07,890 --> 00:45:04,690

everything from curing childhood

1061

00:45:09,930 --> 00:45:07,900

diseases to preventing cesarean sections

1062

00:45:12,720 --> 00:45:09,940

in pregnant women as long as you have

1063

00:45:14,400 --> 00:45:12,730

regular chiropractic adjustments or

1064

00:45:17,160 --> 00:45:14,410

through your pregnancy there'll be less

1065

00:45:19,559 --> 00:45:17,170

cesarean sections and more rapid labor

1066

00:45:21,480 --> 00:45:19,569

etc so there's a lot of crazies out

1067

00:45:23,370 --> 00:45:21,490

there that they are the same people who

1068

00:45:27,089 --> 00:45:23,380

do the balloon up the nose trick are

1069

00:45:29,460 --> 00:45:27,099

they I haven't heard of balloons up

1070

00:45:32,759 --> 00:45:29,470

knows i think you know chiropractors may

1071

00:45:35,930 --> 00:45:32,769

like manipulating backs and necks hello

1072

00:45:39,089 --> 00:45:35,940

certainly manipulating nexus not without

1073

00:45:42,029 --> 00:45:39,099

hesitancy tropes from vertebral artery

1074

00:45:44,640 --> 00:45:42,039

two sections so i certainly would never

1075

00:45:47,059 --> 00:45:44,650

let one near my neck i think in the

1076

00:45:49,230 --> 00:45:47,069

evidence useful in terms of sore backs

1077

00:45:51,420 --> 00:45:49,240

chiropractors can be as good as physios

1078

00:45:52,980 --> 00:45:51,430

or anyone else probably not fair and

1079

00:45:55,980 --> 00:45:52,990

I've got no problem with them treasure

1080

00:45:58,620 --> 00:45:55,990

sore backs I look at Ken just on a you

1081

00:46:00,240 --> 00:45:58,630

know an awareness or is there an

1082

00:46:02,309 --> 00:46:00,250

actually a sort of clear and present

1083

00:46:04,380 --> 00:46:02,319

danger from them I guess it's the old

1084

00:46:06,990 --> 00:46:04,390

question what harm are they doing in the

1085

00:46:09,900 --> 00:46:07,000

community by misrepresenting really know

1086

00:46:11,819 --> 00:46:09,910

the way you should cure people yeah I

1087

00:46:14,730 --> 00:46:11,829

think there's two problems I mean

1088

00:46:17,339 --> 00:46:14,740

there's there's misrepresentation of

1089

00:46:20,309 --> 00:46:17,349

their ability to diagnose and cure which

1090

00:46:22,920 --> 00:46:20,319

can lead people into a series of

1091

00:46:25,440 --> 00:46:22,930

treatments would you not get it do the

1092

00:46:28,349 --> 00:46:25,450

underlying illness any good at all which

1093

00:46:30,809 --> 00:46:28,359

means that it can progress and so they

1094

00:46:32,789 --> 00:46:30,819

can delay patients can delay getting

1095

00:46:34,920 --> 00:46:32,799

more evidence-based treatment of course

1096

00:46:38,039 --> 00:46:34,930

sometimes with serious diseases that can

1097

00:46:40,890 --> 00:46:38,049

be quite a concern so one of that one of

1098

00:46:45,809 --> 00:46:40,900

the problems is is just dis laid what

1099

00:46:48,690 --> 00:46:45,819

misaid delayed proper diagnosis and

1100

00:46:51,240 --> 00:46:48,700

treatment the other concern of course is

1101
00:46:53,850 --> 00:46:51,250
that they rip people off that I mean if

1102
00:46:55,590 --> 00:46:53,860
they're signing you up for

1103
00:46:58,260 --> 00:46:55,600
that chiropractic manipulation in

1104
00:47:00,420 --> 00:46:58,270
pregnancy or again many of them come up

1105
00:47:02,700 --> 00:47:00,430
with the fact that your births terribly

1106
00:47:05,190 --> 00:47:02,710
traumatic for spine of a baby and

1107
00:47:08,010 --> 00:47:05,200
therefore all babies need regular

1108
00:47:10,620 --> 00:47:08,020
chiropractic manipulation to stop these

1109
00:47:13,940 --> 00:47:10,630
terrible subluxations in the first 12 18

1110
00:47:17,790 --> 00:47:13,950
months of life that just is ripping off

1111
00:47:19,770 --> 00:47:17,800
patients money unnecessarily and

1112
00:47:23,280 --> 00:47:19,780
occasionally and I think to be to be

1113
00:47:25,560 --> 00:47:23,290

fair it's rare chiropractic can cause

1114

00:47:27,630 --> 00:47:25,570

real problems i've mentioned strokes

1115

00:47:30,660 --> 00:47:27,640

from vertebral artery dissection where

1116

00:47:34,230 --> 00:47:30,670

necks are manipulated and the arteries

1117

00:47:36,570 --> 00:47:34,240

can be either feared web now there's

1118

00:47:39,000 --> 00:47:36,580

dispute over how common areas is

1119

00:47:42,120 --> 00:47:39,010

probably fairly rare but it certainly

1120

00:47:43,680 --> 00:47:42,130

does happen mmm okay and what do you

1121

00:47:45,090 --> 00:47:43,690

mean what can you do about this i mean

1122

00:47:48,240 --> 00:47:45,100

you know that people to ring you know

1123

00:47:51,240 --> 00:47:48,250

who to get on to about this well for

1124

00:47:53,130 --> 00:47:51,250

many years my colleagues and I have been

1125

00:47:56,610 --> 00:47:53,140

putting complaints about these things

1126
00:48:00,060 --> 00:47:56,620
five years ago chiropractors came under

1127
00:48:02,220 --> 00:48:00,070
the national regulatory system and there

1128
00:48:03,690 --> 00:48:02,230
is for the registered health

1129
00:48:07,140 --> 00:48:03,700
practitioners and and that includes

1130
00:48:10,110 --> 00:48:07,150
doctors nurses pharmacists etc and

1131
00:48:13,200 --> 00:48:10,120
chiropractors got into that system so

1132
00:48:14,820 --> 00:48:13,210
they come under the national law that

1133
00:48:17,220 --> 00:48:14,830
governs registered practitioners which

1134
00:48:20,940 --> 00:48:17,230
has got very clear advertising

1135
00:48:23,100 --> 00:48:20,950
provisions of our shop not advertised in

1136
00:48:26,430 --> 00:48:23,110
a misleading or deceptive manner thou

1137
00:48:29,400 --> 00:48:26,440
shalt not use testimonials thou shalt

1138
00:48:31,710 --> 00:48:29,410

not encourage unnecessary use of health

1139

00:48:33,540 --> 00:48:31,720

services and you can hear from what i've

1140

00:48:36,750 --> 00:48:33,550

said that we believe there's breaches of

1141

00:48:39,570 --> 00:48:36,760

all of those consistently and the first

1142

00:48:41,700 --> 00:48:39,580

two or three years of the national

1143

00:48:43,560 --> 00:48:41,710

scheme was set up the chiropractic board

1144

00:48:46,050 --> 00:48:43,570

said they wanted to educate people about

1145

00:48:48,990 --> 00:48:46,060

the responsibilities and that was their

1146

00:48:52,680 --> 00:48:49,000

approach so you'd send in a complaint

1147

00:48:55,880 --> 00:48:52,690

and you'd hear nothing more but if you

1148

00:48:58,860 --> 00:48:55,890

queried them they were educating people

1149

00:49:02,400 --> 00:48:58,870

five years has now gone on and certainly

1150

00:49:05,490 --> 00:49:02,410

over the last few years we've put in a

1151
00:49:07,400 --> 00:49:05,500
lot more complaints again the approach

1152
00:49:10,020 --> 00:49:07,410
has just been it

1153
00:49:11,850 --> 00:49:10,030
you know in more and more newsletters

1154
00:49:14,850 --> 00:49:11,860
and come out from the chiropractic board

1155
00:49:17,400 --> 00:49:14,860
guys you should be evidence-based but

1156
00:49:20,880 --> 00:49:17,410
they've been very nonspecific may have

1157
00:49:22,440 --> 00:49:20,890
not said thou shalt not do yea thou

1158
00:49:24,540 --> 00:49:22,450
shalt not manipulate children for

1159
00:49:26,880 --> 00:49:24,550
childhood illnesses they have not said

1160
00:49:29,610 --> 00:49:26,890
you should not manipulate pregnant women

1161
00:49:31,410 --> 00:49:29,620
to prevent it's a short labor or prevent

1162
00:49:34,100 --> 00:49:31,420
caesarean sections because there's no

1163
00:49:37,110 --> 00:49:34,110

evidence for it they haven't actually

1164

00:49:38,940 --> 00:49:37,120

produced need to public determinations

1165

00:49:40,980 --> 00:49:38,950

on a complaint screen and has been

1166

00:49:44,400 --> 00:49:40,990

hundreds of complaints pudding they

1167

00:49:47,100 --> 00:49:44,410

haven't actually analyzed them to say ok

1168

00:49:49,200 --> 00:49:47,110

there are consistently certain practices

1169

00:49:51,330 --> 00:49:49,210

going on but are not evidence-based and

1170

00:49:53,820 --> 00:49:51,340

we should tell people don't do it

1171

00:49:58,920 --> 00:49:53,830

they've never told people don't do it

1172

00:50:00,660 --> 00:49:58,930

and so again it's this year or in a lot

1173

00:50:03,210 --> 00:50:00,670

in middle of last year my colleagues and

1174

00:50:04,680 --> 00:50:03,220

I started talking to the actual CD

1175

00:50:08,100 --> 00:50:04,690

australian competition and consumer

1176
00:50:11,540 --> 00:50:08,110
Authority because for agency and because

1177
00:50:15,030 --> 00:50:11,550
they have got also powers under a

1178
00:50:16,470 --> 00:50:15,040
National Consumer Law to prosecute for

1179
00:50:18,690 --> 00:50:16,480
misleading and deceptive and

1180
00:50:21,540 --> 00:50:18,700
unconscionable conduct and certainly my

1181
00:50:23,730 --> 00:50:21,550
argument is that many chiropractors have

1182
00:50:26,220 --> 00:50:23,740
got unconscionable conduct and again

1183
00:50:28,560 --> 00:50:26,230
talking to vh people see first of all

1184
00:50:30,900 --> 00:50:28,570
they want to talk to the board another

1185
00:50:33,450 --> 00:50:30,910
12 months went by then we thought out

1186
00:50:35,430 --> 00:50:33,460
about 200 or more complaints possible

1187
00:50:37,530 --> 00:50:35,440
complaints we would put in 10 good

1188
00:50:39,930 --> 00:50:37,540

representative ones which we did last

1189

00:50:42,660 --> 00:50:39,940

August they were acknowledged but heard

1190

00:50:45,270 --> 00:50:42,670

nothing more and so early this year we

1191

00:50:47,370 --> 00:50:45,280

looked at what had happened to those 10

1192

00:50:49,320 --> 00:50:47,380

representative complaints which involved

1193

00:50:51,630 --> 00:50:49,330

a large number of chiropractors because

1194

00:50:54,480 --> 00:50:51,640

it was 10 clicks large number of

1195

00:50:57,870 --> 00:50:54,490

chiropractors more than 60 sort of

1196

00:51:00,600 --> 00:50:57,880

claims made we felt breached the law and

1197

00:51:03,240 --> 00:51:00,610

what we found at the ten clinics only

1198

00:51:06,210 --> 00:51:03,250

one had taken off from all the claims

1199

00:51:07,950 --> 00:51:06,220

that we felt were inappropriate another

1200

00:51:10,620 --> 00:51:07,960

one seemed to have disappeared but in

1201

00:51:12,510 --> 00:51:10,630

fact that set up a new website and

1202

00:51:14,070 --> 00:51:12,520

making the same claims it's not an

1203

00:51:17,310 --> 00:51:14,080

uncommon trick and of all the other

1204

00:51:19,990 --> 00:51:17,320

claims we judged but something like

1205

00:51:23,170 --> 00:51:20,000

sixty two percent was still non

1206

00:51:26,560 --> 00:51:23,180

so yes the car for a keyboard we believe

1207

00:51:28,630 --> 00:51:26,570

hand written how to list abra mr. alien

1208

00:51:30,250 --> 00:51:28,640

practitioners health very have written

1209

00:51:32,230 --> 00:51:30,260

to these guys saying hey here's a

1210

00:51:34,240 --> 00:51:32,240

complaint but nothing has happened there

1211

00:51:38,020 --> 00:51:34,250

not much it happened Olivia sheer we

1212

00:51:40,180 --> 00:51:38,030

went public and hit the press medical

1213

00:51:42,880 --> 00:51:40,190

journals Australia inside and do daily

1214

00:51:45,790 --> 00:51:42,890

opinion editorial in the Fairfax press

1215

00:51:48,400 --> 00:51:45,800

the age no Sydney Morning Herald and got

1216

00:51:51,160 --> 00:51:48,410

a large amount of media attention which

1217

00:51:53,410 --> 00:51:51,170

all of a sudden has stimulated the

1218

00:51:54,760 --> 00:51:53,420

chiropractic board and the Australian

1219

00:51:57,310 --> 00:51:54,770

health practitioners regulatory

1220

00:51:59,740 --> 00:51:57,320

authority to suddenly start wanting tell

1221

00:52:02,680 --> 00:51:59,750

the conferences and meetings to see what

1222

00:52:04,240 --> 00:52:02,690

the problem is so where'd the

1223

00:52:05,320 --> 00:52:04,250

politicians sit with this is this the

1224

00:52:07,180 --> 00:52:05,330

kind of thing where you want to get

1225

00:52:09,190 --> 00:52:07,190

politicians involved or is this a touchy

1226

00:52:11,320 --> 00:52:09,200

one where they feel all we been not get

1227

00:52:14,230 --> 00:52:11,330

involved in cases makes people who are

1228

00:52:16,450 --> 00:52:14,240

in favor of it not like us well indeed

1229

00:52:19,090 --> 00:52:16,460

the National Registration system was set

1230

00:52:21,280 --> 00:52:19,100

up by the council Australian

1231

00:52:24,010 --> 00:52:21,290

Government's Health Council which is all

1232

00:52:26,290 --> 00:52:24,020

state and federal territory ministers

1233

00:52:28,870 --> 00:52:26,300

which obviously is a bit of us on dog's

1234

00:52:30,400 --> 00:52:28,880

breakfast but but the system the

1235

00:52:32,680 --> 00:52:30,410

registration system and a complaint

1236

00:52:36,460 --> 00:52:32,690

system is responsible to the Australian

1237

00:52:39,850 --> 00:52:36,470

health and to treat ministers and so yes

1238

00:52:42,670 --> 00:52:39,860

we have written and many come many

1239

00:52:44,770 --> 00:52:42,680

civica sorry a civil society

1240

00:52:47,020 --> 00:52:44,780

organizations such as consumers health

1241

00:52:48,790 --> 00:52:47,030

forum choice is drunk and choose

1242

00:52:51,100 --> 00:52:48,800

association friends of science and

1243

00:52:53,200 --> 00:52:51,110

medicine have written to the co egg

1244

00:52:56,590 --> 00:52:53,210

health council were demanding that

1245

00:52:59,140 --> 00:52:56,600

something be done now again that's

1246

00:53:00,880 --> 00:52:59,150

within the last week or two but yes we

1247

00:53:02,710 --> 00:53:00,890

have taken it into the political arena

1248

00:53:05,800 --> 00:53:02,720

and it'll be interesting to see what

1249

00:53:08,590 --> 00:53:05,810

response we get yes do you think there's

1250

00:53:10,780 --> 00:53:08,600

votes in the medical reform of

1251
00:53:12,610 --> 00:53:10,790
alternative and complementary medicine

1252
00:53:15,670 --> 00:53:12,620
because if she not just watching last

1253
00:53:17,230 --> 00:53:15,680
night there's program from PBS France

1254
00:53:19,480 --> 00:53:17,240
from a comic broadcasting system in

1255
00:53:22,000 --> 00:53:19,490
America on their crazy system of

1256
00:53:24,430 --> 00:53:22,010
supplements and the dangers that that

1257
00:53:28,210 --> 00:53:24,440
lack of regulation causes I think

1258
00:53:29,260 --> 00:53:28,220
patients when they know but there is

1259
00:53:31,180 --> 00:53:29,270
both

1260
00:53:33,820 --> 00:53:31,190
medicines and like complementary

1261
00:53:35,950 --> 00:53:33,830
medicines that have never been evaluated

1262
00:53:38,110 --> 00:53:35,960
to see if they work which claims are

1263
00:53:39,430 --> 00:53:38,120

being made which lack evidence and when

1264

00:53:42,520 --> 00:53:39,440

they find that there are practitioners

1265

00:53:45,910 --> 00:53:42,530

such as chiropractors naturopaths homie

1266

00:53:48,730 --> 00:53:45,920

perhaps doing the same making claims

1267

00:53:50,590 --> 00:53:48,740

that can't be validated people get

1268

00:53:53,110 --> 00:53:50,600

pissed off I mean they're as they should

1269

00:53:56,980 --> 00:53:53,120

the problem is getting it out there

1270

00:53:59,350 --> 00:53:56,990

because most people don't go for

1271

00:54:01,930 --> 00:53:59,360

evidence based assessment of the health

1272

00:54:04,390 --> 00:54:01,940

practitioners it's over here over the

1273

00:54:05,890 --> 00:54:04,400

back fence you know I've got to say Kim

1274

00:54:10,150 --> 00:54:05,900

I'm actually completely wacky on the

1275

00:54:12,580 --> 00:54:10,160

ethereal right now no well a figure has

1276

00:54:14,350 --> 00:54:12,590

finally been taken off the market oh

1277

00:54:17,350 --> 00:54:14,360

right that's it I'm gonna charge more

1278

00:54:19,750 --> 00:54:17,360

for it but the problem again I oh that

1279

00:54:21,370 --> 00:54:19,760

is the need for consumer education which

1280

00:54:23,650 --> 00:54:21,380

again is the role of consumer

1281

00:54:26,260 --> 00:54:23,660

organizations choice consumers health

1282

00:54:29,320 --> 00:54:26,270

forum etc I mean we've got to let people

1283

00:54:31,090 --> 00:54:29,330

know and again the national press and

1284

00:54:33,820 --> 00:54:31,100

the media has got an important role here

1285

00:54:35,920 --> 00:54:33,830

we've got it and that is craziness out

1286

00:54:37,930 --> 00:54:35,930

there and again the press in the media's

1287

00:54:42,580 --> 00:54:37,940

have been pretty good on this um

1288

00:54:44,980 --> 00:54:42,590

recently they abc-tv's taken up some

1289

00:54:47,260 --> 00:54:44,990

other even channel 10 projects taking us

1290

00:54:50,200 --> 00:54:47,270

up there's been I think good media

1291

00:54:52,270 --> 00:54:50,210

attention all of which helps concentrate

1292

00:54:54,640 --> 00:54:52,280

the mind of politicians I mean my

1293

00:54:56,500 --> 00:54:54,650

experiences politicians don't give a

1294

00:54:59,110 --> 00:54:56,510

bugger about an area like paper in a

1295

00:55:01,570 --> 00:54:59,120

medical journal of Australia but if

1296

00:55:04,030 --> 00:55:01,580

consumer organizations and national

1297

00:55:06,850 --> 00:55:04,040

media starts pressuring them that's

1298

00:55:08,350 --> 00:55:06,860

voters and I'll do something about it so

1299

00:55:10,480 --> 00:55:08,360

I'm feeling confident something might

1300

00:55:12,040 --> 00:55:10,490

happen this time around ken of what i

1301

00:55:13,540 --> 00:55:12,050

find this normal use and it's certainly

1302

00:55:15,280 --> 00:55:13,550

the case i think with the

1303

00:55:16,660 --> 00:55:15,290

anti-vaccination people is it isn't so

1304

00:55:18,850 --> 00:55:16,670

much that they're suspicious at the

1305

00:55:21,250 --> 00:55:18,860

science they're suspicious of the big

1306

00:55:23,140 --> 00:55:21,260

business and the authority figures do

1307

00:55:25,570 --> 00:55:23,150

you think that's true well because

1308

00:55:27,970 --> 00:55:25,580

that's terribly ironic because yes I

1309

00:55:30,970 --> 00:55:27,980

mean clearly there is suspicion a big

1310

00:55:33,220 --> 00:55:30,980

pharma big business and there is the

1311

00:55:37,410 --> 00:55:33,230

hope that small business and little

1312

00:55:38,750 --> 00:55:37,420

farmer is is fine and green and ethical

1313

00:55:41,240 --> 00:55:38,760

there is

1314

00:55:44,060 --> 00:55:41,250

no difference if I in my experience

1315

00:55:47,480 --> 00:55:44,070

there are charlatans and rip off

1316

00:55:50,330 --> 00:55:47,490

merchants in both areas and yes you know

1317

00:55:53,060 --> 00:55:50,340

there are have been and continue to be

1318

00:55:56,320 --> 00:55:53,070

big problems with big farmer in terms of

1319

00:56:00,890 --> 00:55:56,330

them you know censoring negative results

1320

00:56:03,920 --> 00:56:00,900

misleading trials etc etc but equally

1321

00:56:07,400 --> 00:56:03,930

well in the so called complementary

1322

00:56:10,190 --> 00:56:07,410

medicine space there's the same thing

1323

00:56:12,490 --> 00:56:10,200

and with practitioners I mean well

1324

00:56:14,660 --> 00:56:12,500

certainly about the facts are

1325

00:56:17,930 --> 00:56:14,670

chiropractors for example are running at

1326
00:56:20,270 --> 00:56:17,940
three times the number of complaints per

1327
00:56:23,150 --> 00:56:20,280
thousand chiropractors for advertising

1328
00:56:25,820 --> 00:56:23,160
violations as the next communist which

1329
00:56:28,490 --> 00:56:25,830
is dentists and medicos and pharmacists

1330
00:56:30,590 --> 00:56:28,500
are way behind in terms of you know

1331
00:56:32,890 --> 00:56:30,600
complaints per thousand those

1332
00:56:35,900 --> 00:56:32,900
chiropractors are right up there right

1333
00:56:38,570 --> 00:56:35,910
leading the pack way out in front with

1334
00:56:40,610 --> 00:56:38,580
advertising complaints but people don't

1335
00:56:42,290 --> 00:56:40,620
know about it though what about the

1336
00:56:45,590 --> 00:56:42,300
Reiki touch feelers how are they going

1337
00:56:48,800 --> 00:56:45,600
oh well that's the other area of course

1338
00:56:50,840 --> 00:56:48,810

which unfortunately you know there was a

1339

00:56:54,170 --> 00:56:50,850

review by the National Health and

1340

00:56:56,870 --> 00:56:54,180

Medical Research Council into looking at

1341

00:56:59,360 --> 00:56:56,880

the evidence base of a number of

1342

00:57:02,360 --> 00:56:59,370

alternative and natural therapies you

1343

00:57:05,210 --> 00:57:02,370

know homeopathy naturopathy etc and that

1344

00:57:06,800 --> 00:57:05,220

was stimulated by the past Labor

1345

00:57:09,470 --> 00:57:06,810

government who sort of were a bit

1346

00:57:12,310 --> 00:57:09,480

concerned about the escalating private

1347

00:57:15,800 --> 00:57:12,320

health insurance rebate costs because

1348

00:57:17,780 --> 00:57:15,810

complementary therapies are covered by a

1349

00:57:20,860 --> 00:57:17,790

number of private health insurance funds

1350

00:57:24,380 --> 00:57:20,870

and government generally in my belief

1351

00:57:26,060 --> 00:57:24,390

provide some rebates and encourages

1352

00:57:28,940 --> 00:57:26,070

people there was a look at the evidence

1353

00:57:32,770 --> 00:57:28,950

base and have Yaffe opposes the first

1354

00:57:35,480 --> 00:57:32,780

cab off the rank no evidence clearly for

1355

00:57:36,680 --> 00:57:35,490

homeopathy and you did it turned out

1356

00:57:39,320 --> 00:57:36,690

there's no evidence for any of the

1357

00:57:41,480 --> 00:57:39,330

others either at least on the review is

1358

00:57:42,560 --> 00:57:41,490

done by the natural health and sorry the

1359

00:57:45,260 --> 00:57:42,570

National Health and Medical Research

1360

00:57:48,560 --> 00:57:45,270

Council that should have led immediately

1361

00:57:50,740 --> 00:57:48,570

to a decision to put the kibosh on the

1362

00:57:52,470 --> 00:57:50,750

rebate for not evidence-based therapies

1363

00:57:54,900 --> 00:57:52,480

but this is where

1364

00:57:57,120 --> 00:57:54,910

again politics comes in that was set up

1365

00:57:59,400 --> 00:57:57,130

by the previous Labor government the

1366

00:58:01,980 --> 00:57:59,410

current Liberal government minister

1367

00:58:04,710 --> 00:58:01,990

wasn't too sure about this inquiry set

1368

00:58:06,150 --> 00:58:04,720

up by a labor Health Minister by

1369

00:58:09,240 --> 00:58:06,160

definition don't want anything to do

1370

00:58:11,220 --> 00:58:09,250

with that and hasn't actually followed

1371

00:58:13,530 --> 00:58:11,230

through it's all too difficult to

1372

00:58:15,120 --> 00:58:13,540

actually stop rebate surprise health

1373

00:58:17,609 --> 00:58:15,130

insurance for non evidence-based

1374

00:58:20,370 --> 00:58:17,619

therapies according to the minister

1375

00:58:23,390 --> 00:58:20,380

Susan lay now get on my own belief is

1376

00:58:26,220 --> 00:58:23,400

that's because the industry pressures

1377

00:58:28,170 --> 00:58:26,230

severe on her too so say let's keep this

1378

00:58:30,270 --> 00:58:28,180

going and let's keep us in the manner in

1379

00:58:32,640 --> 00:58:30,280

which were accustomed so you know

1380

00:58:35,790 --> 00:58:32,650

evidence is one thing regrettably action

1381

00:58:37,200 --> 00:58:35,800

as a nun so what can we all do about it

1382

00:58:38,670 --> 00:58:37,210

how can we help out with this if the

1383

00:58:40,020 --> 00:58:38,680

skeptic out there is listening they got

1384

00:58:41,580 --> 00:58:40,030

their blood boiling and they want to do

1385

00:58:44,430 --> 00:58:41,590

something which they do can you're the

1386

00:58:46,500 --> 00:58:44,440

expert on doing something well I think

1387

00:58:48,720 --> 00:58:46,510

what we've learnt is that it is

1388

00:58:51,450 --> 00:58:48,730

worthwhile putting in complaints it can

1389

00:58:54,060 --> 00:58:51,460

be an unrewarding experience you know

1390

00:58:57,990 --> 00:58:54,070

you may never hear what happens but they

1391

00:59:02,160 --> 00:58:58,000

do get logged and people do use them to

1392

00:59:04,920 --> 00:59:02,170

bring pressure to bear and so yes my

1393

00:59:07,680 --> 00:59:04,930

advice is if you see something fishy or

1394

00:59:09,540 --> 00:59:07,690

it's too good to be true then put in a

1395

00:59:11,460 --> 00:59:09,550

complaint if you don't know how to put

1396

00:59:13,050 --> 00:59:11,470

in a complaint been getting touch with

1397

00:59:16,230 --> 00:59:13,060

you know skeptics Australia friends of

1398

00:59:18,480 --> 00:59:16,240

science and medicine um email at your

1399

00:59:21,090 --> 00:59:18,490

concerns and we will put in a complaint

1400

00:59:23,430 --> 00:59:21,100

or will help you to put in one we've got

1401
00:59:25,710 --> 00:59:23,440
to get people to actually be aware in

1402
00:59:29,220 --> 00:59:25,720
their rights to question and be

1403
00:59:31,320 --> 00:59:29,230
skeptical and be cynical and pass that

1404
00:59:33,960 --> 00:59:31,330
on to the regulatory authorities because

1405
00:59:36,660 --> 00:59:33,970
if people just don't do anything then

1406
00:59:39,210 --> 00:59:36,670
the regulatory authorities say oh well

1407
00:59:40,770 --> 00:59:39,220
no complaints everything's fine they

1408
00:59:42,300 --> 00:59:40,780
certainly don't do any monitoring

1409
00:59:46,440 --> 00:59:42,310
themselves well it would be very easy

1410
00:59:49,349 --> 00:59:46,450
for them to do so so yeah be an activist

1411
00:59:50,790 --> 00:59:49,359
putting complaints get in touch with

1412
00:59:54,030 --> 00:59:50,800
friends of science and medicine

1413
00:59:56,700 --> 00:59:54,040

Australian skeptics etc and we can help

1414

00:59:58,530 --> 00:59:56,710

great Ken and what what is the best

1415

01:00:01,050 --> 00:59:58,540

website to get to find out more about

1416

01:00:02,430 --> 01:00:01,060

the Friends of science and medicine well

1417

01:00:03,960 --> 01:00:02,440

again if you google all friends of

1418

01:00:06,000 --> 01:00:03,970

science and medicine

1419

01:00:09,420 --> 01:00:06,010

you will get there if you google

1420

01:00:12,150 --> 01:00:09,430

Australian skeptics you'll get some good

1421

01:00:14,010 --> 01:00:12,160

contact details great thank you dr. ken

1422

01:00:15,589 --> 01:00:14,020

harvey and rock on get out there and

1423

01:00:37,090 --> 01:00:15,599

complain about something today people

1424

01:00:41,480 --> 01:00:39,440

astronomy cast it takes a fact space

1425

01:00:43,220 --> 01:00:41,490

journey through the cosmos as it offers

1426

01:00:45,890 --> 01:00:43,230

listeners weekly discussions on

1427

01:00:48,800 --> 01:00:45,900

astronomical topics ranging from planets

1428

01:00:51,260 --> 01:00:48,810

to cosmology hosted by Fraser Cain of

1429

01:00:52,130 --> 01:00:51,270

Universe Today and myself dr. Pamela gay

1430

01:00:54,800 --> 01:00:52,140

of southern illinois university

1431

01:00:56,660 --> 01:00:54,810

edwardsville this show brings the

1432

01:00:59,090 --> 01:00:56,670

questions of an avid astronomy lover

1433

01:01:01,190 --> 01:00:59,100

directly to an astronomer together

1434

01:01:02,720 --> 01:01:01,200

Fraser and I explore what is known and

1435

01:01:05,480 --> 01:01:02,730

being discovered about the universe

1436

01:01:07,580 --> 01:01:05,490

around us join us each week as we take a

1437

01:01:24,250 --> 01:01:07,590

fact space journey through the cosmos at

1438

01:01:28,460 --> 01:01:26,690

thank you for listening to the skeptic

1439

01:01:30,559 --> 01:01:28,470

zone and for people who have been

1440

01:01:34,309 --> 01:01:30,569

listening to the skeptic zone for many

1441

01:01:37,970 --> 01:01:34,319

years now he'll of course be well aware

1442

01:01:41,329 --> 01:01:37,980

of Fred the cat well I am very sorry to

1443

01:01:43,009 --> 01:01:41,339

say that Fred died just after the last

1444

01:01:46,099 --> 01:01:43,019

episode of the skeptic zone went out to

1445

01:01:49,359 --> 01:01:46,109

where he died in his sleep here at home

1446

01:01:53,150 --> 01:01:49,369

he was perfectly happy the day before

1447

01:01:56,630 --> 01:01:53,160

doing his normal things sleeping a lot

1448

01:02:00,380 --> 01:01:56,640

looking for water food generally being a

1449

01:02:03,620 --> 01:02:00,390

good cat fred was a found kitten my

1450

01:02:07,579 --> 01:02:03,630

sister found Fred on a fence post in the

1451

01:02:10,490 --> 01:02:07,589

year 2000 poor little lost half starved

1452

01:02:13,630 --> 01:02:10,500

kitten well that's how he ended up here

1453

01:02:16,910 --> 01:02:13,640

he was good company he had two pretty

1454

01:02:20,359 --> 01:02:16,920

major events happen in his life the

1455

01:02:23,769 --> 01:02:20,369

first one was that about all six years

1456

01:02:26,480 --> 01:02:23,779

ago he was attacked by a rottweiler and

1457

01:02:29,630 --> 01:02:26,490

poor old Fred had big puncture wounds in

1458

01:02:32,059 --> 01:02:29,640

him horrible experience for everybody

1459

01:02:34,759 --> 01:02:32,069

he'd recovered good old Fred he did

1460

01:02:37,640 --> 01:02:34,769

recover no broken bones luckily the

1461

01:02:40,579 --> 01:02:37,650

other one was that about dual three

1462

01:02:43,579 --> 01:02:40,589

years ago he developed a giant tumor in

1463

01:02:46,880 --> 01:02:43,589

his back it was massive the vet was

1464

01:02:50,329 --> 01:02:46,890

quite surprised and Fred had to go under

1465

01:02:53,180 --> 01:02:50,339

go to operations to fix all that up but

1466

01:02:55,579 --> 01:02:53,190

survived it he did very sorry to not

1467

01:02:58,099 --> 01:02:55,589

have Fred here at my feet wise I record

1468

01:02:59,749 --> 01:02:58,109

this very sorry not to have a dell and

1469

01:03:02,240 --> 01:02:59,759

some of you may remember Adele who was

1470

01:03:06,259 --> 01:03:02,250

the other cat she died about three years

1471

01:03:08,509 --> 01:03:06,269

ago rest assured for the most part Fred

1472

01:03:11,269 --> 01:03:08,519

had a pretty damn good life and a long

1473

01:03:13,670 --> 01:03:11,279

life too so Fred thanks for all the

1474

01:03:17,870 --> 01:03:13,680

company and thanks for always being

1475

01:03:19,730 --> 01:03:17,880

there and we will miss you Oh Deary me

1476

01:03:21,710 --> 01:03:19,740

anyway for this week this is Richard

1477

01:03:26,000 --> 01:03:21,720

Saunders signing off from Sydney

1478

01:03:32,190 --> 01:03:28,440

you've been listening to the skeptics

1479

01:03:35,100 --> 01:03:32,200

own podcast visit our website at wwc a

1480

01:03:38,550 --> 01:03:35,110

petting zoo TV for contacts an archive

1481

01:03:41,250 --> 01:03:38,560

of all episodes since 2008 and our

1482

01:03:43,160 --> 01:03:41,260

online store please support the skeptic

1483

01:03:46,350 --> 01:03:43,170

zone by following us on twitter at

1484

01:03:49,980 --> 01:03:46,360

skeptic zone liking us on facebook and

1485

01:03:52,140 --> 01:03:49,990

leaving a review on iTunes you can also

1486

01:03:55,310 --> 01:03:52,150

show your support by subscribing via

1487

01:03:58,080 --> 01:03:55,320

paypal for as little as 99 cents a week

1488

01:03:59,730 --> 01:03:58,090

the skeptic zone is an independent

1489

01:04:02,160 --> 01:03:59,740

production the views and opinions

1490

01:04:04,200 --> 01:04:02,170

expressed on the skeptic zone and not