

**SKEPTIC  
ZONE**



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

The  
Podcast  
from  
Australia  
for  
Science  
and  
Reason

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

1  
00:00:07,039 --> 00:00:04,849  
549 the number you've been darling is

2  
00:00:13,370 --> 00:00:07,049  
not connected please check your number

3  
00:00:14,959 --> 00:00:13,380  
before dialing again 549 the dilution

4  
00:00:17,210 --> 00:00:14,969  
you've been trying is called homeopathy

5  
00:00:25,000 --> 00:00:17,220  
please check a baguette rose number

6  
00:00:31,659 --> 00:00:28,190  
welcome to the skeptic zone the podcast

7  
00:00:35,510 --> 00:00:31,669  
from Australia for science and reason

8  
00:00:39,070 --> 00:00:35,520  
yuria hosts Richard Saunders and Stefan

9  
00:00:44,540 --> 00:00:42,170  
hello it's Stefan here in the zone this

10  
00:00:46,820 --> 00:00:44,550  
week all on my own poor rich has got

11  
00:00:49,430 --> 00:00:46,830  
laryngitis I think he's not even able to

12  
00:00:51,290 --> 00:00:49,440  
talk so he's left it all up to me to do

13  
00:00:53,750 --> 00:00:51,300

the intros and outros and try and get

14

00:00:56,030 --> 00:00:53,760

things rolling here very weird being in

15

00:00:57,890 --> 00:00:56,040

the zone on your own I tell you I feel a

16

00:00:59,930 --> 00:00:57,900

little bit quantum here i'm hosting god

17

00:01:02,120 --> 00:00:59,940

co-hosting and I'm sort of observing

18

00:01:04,880 --> 00:01:02,130

myself doing just that in some sort of

19

00:01:07,220 --> 00:01:04,890

indivisible co hosting hosting sort of

20

00:01:08,780 --> 00:01:07,230

zona shut of thing and it's just not

21

00:01:10,220 --> 00:01:08,790

working for me so I'm going to try and

22

00:01:12,590 --> 00:01:10,230

get through it as quick as I can and we

23

00:01:15,260 --> 00:01:12,600

hope the rigid gets better soon coming

24

00:01:17,719 --> 00:01:15,270

up in the show we've got Jennifer wallet

25

00:01:20,180 --> 00:01:17,729

now she's a fascinating lady who's in

26  
00:01:23,270 --> 00:01:20,190  
Hollywood trying to promote real science

27  
00:01:25,249 --> 00:01:23,280  
in the movies that's going to destroy a

28  
00:01:26,810 --> 00:01:25,259  
good script writing careers or about of

29  
00:01:31,160 --> 00:01:26,820  
ninety-eight percent of those Hollywood

30  
00:01:32,930 --> 00:01:31,170  
script writers M night Shyamalan and

31  
00:01:34,430 --> 00:01:32,940  
what the hell he can do but it's going

32  
00:01:36,800 --> 00:01:34,440  
to be fascinating thing let's see if we

33  
00:01:39,200 --> 00:01:36,810  
can see what Jennifer while it has got

34  
00:01:42,050 --> 00:01:39,210  
to say about her mission of introducing

35  
00:01:44,149 --> 00:01:42,060  
reality to the movies after that we've

36  
00:01:46,190 --> 00:01:44,159  
got dr. Rachel reports with the famous

37  
00:01:48,620 --> 00:01:46,200  
dr. Rachel Dunlop and then the

38  
00:01:50,930 --> 00:01:48,630

ever-popular think tank is where a bunch

39

00:01:52,520 --> 00:01:50,940

of skeptics go head to head over a

40

00:01:54,950 --> 00:01:52,530

couple of beers and try and solve the

41

00:01:57,590 --> 00:01:54,960

world's problems so yes all in all a

42

00:02:00,020 --> 00:01:57,600

good show show 35 can't wait for Richard

43

00:02:20,170 --> 00:02:00,030

to come back it's pretty lonely here but

44

00:02:24,980 --> 00:02:23,330

I'm Kylie Sturgis and together with

45

00:02:27,979 --> 00:02:24,990

Richard Saunders we're talking to

46

00:02:30,530 --> 00:02:27,989

Jennifer Wyatt she's the author of the

47

00:02:33,140 --> 00:02:30,540

physics of the buffyverse and black

48

00:02:35,300 --> 00:02:33,150

bodies and quantum cats you may be

49

00:02:37,160 --> 00:02:35,310

familiar with her blog cocktail party

50

00:02:39,470 --> 00:02:37,170

physics which features half a dozen

51  
00:02:41,420 --> 00:02:39,480  
female contributors on a group science

52  
00:02:43,790 --> 00:02:41,430  
blog where contributors and readers

53  
00:02:47,150 --> 00:02:43,800  
alike chat about the latest ideas and

54  
00:02:48,920 --> 00:02:47,160  
news in science with a twist jennifer

55  
00:02:49,850 --> 00:02:48,930  
has been recently appointed the director

56  
00:02:52,729 --> 00:02:49,860  
of the science and entertainment

57  
00:02:54,620 --> 00:02:52,739  
exchange allowing entertainment industry

58  
00:02:56,660 --> 00:02:54,630  
professionals access to the top

59  
00:02:58,280 --> 00:02:56,670  
scientists and engineers in order to

60  
00:03:00,650 --> 00:02:58,290  
bring the reality of cutting-edge

61  
00:03:03,229 --> 00:03:00,660  
science to the story lines we enjoy on

62  
00:03:05,360 --> 00:03:03,239  
the big and small screens she'll be

63  
00:03:07,670 --> 00:03:05,370

presenting at the amazing meeting seven

64

00:03:09,680 --> 00:03:07,680

in Las Vegas and we're very proud to

65

00:03:20,300 --> 00:03:09,690

have a talking to us here on the

66

00:03:22,280 --> 00:03:20,310

skeptics I'm and joining us from Los

67

00:03:25,190 --> 00:03:22,290

Angeles is Jennifer wallet hello

68

00:03:26,630 --> 00:03:25,200

Jennifer hello Richard how are you I'm

69

00:03:28,729 --> 00:03:26,640

really well now I understand this is

70

00:03:31,280 --> 00:03:28,739

you're a bit of a novice when it comes

71

00:03:32,780 --> 00:03:31,290

to skype this is my very first time and

72

00:03:37,699 --> 00:03:32,790

I love it already I'm gonna be using

73

00:03:40,310 --> 00:03:37,709

this time I've introduced you to a new

74

00:03:43,160 --> 00:03:40,320

addiction I'm afraid about that yeah i

75

00:03:45,170 --> 00:03:43,170

think you have you now we're very

76

00:03:47,180 --> 00:03:45,180

excited to hear that you're going to be

77

00:03:49,880 --> 00:03:47,190

a guest speaker at the amazing meeting

78

00:03:52,580 --> 00:03:49,890

coming up in in a very few weeks now in

79

00:03:54,650 --> 00:03:52,590

Los in Las Vegas with James Randi can

80

00:03:56,210 --> 00:03:54,660

you tell our audience a little bit of

81

00:03:57,650 --> 00:03:56,220

course they'll all be there but

82

00:03:58,910 --> 00:03:57,660

regardless can you tell them a little

83

00:04:02,690 --> 00:03:58,920

bit about what you're going to be

84

00:04:04,370 --> 00:04:02,700

speaking on well um uh I wear many hats

85

00:04:06,830 --> 00:04:04,380

but the main one that I'm wearing these

86

00:04:08,810 --> 00:04:06,840

days is I'm director of a new program of

87

00:04:10,190 --> 00:04:08,820

the National Academy of Sciences called

88

00:04:12,349 --> 00:04:10,200

the science and entertainment exchange

89

00:04:14,150 --> 00:04:12,359

and of course I've known phil plait

90

00:04:17,960 --> 00:04:14,160

through the blogosphere for a couple of

91

00:04:19,969 --> 00:04:17,970

years now and one of the things that the

92

00:04:22,850 --> 00:04:19,979

science entertainment exchange does is

93

00:04:24,950 --> 00:04:22,860

try and get we basically try to

94

00:04:27,950 --> 00:04:24,960

foster creative collaborations between

95

00:04:31,100 --> 00:04:27,960

science and Hollywood so for tifa TV

96

00:04:32,959 --> 00:04:31,110

show needs a scientist to you know for

97

00:04:34,850 --> 00:04:32,969

particular so that they're working on or

98

00:04:36,050 --> 00:04:34,860

a movie director wants you know to sit

99

00:04:38,390 --> 00:04:36,060

down and brainstorm with a couple of

100

00:04:40,879 --> 00:04:38,400

physicists about you know how wormholes

101  
00:04:43,969 --> 00:04:40,889  
work and things like that we would find

102  
00:04:45,740 --> 00:04:43,979  
a scientist who can do this so we have a

103  
00:04:47,510 --> 00:04:45,750  
lot of volunteer scientists who call in

104  
00:04:48,980 --> 00:04:47,520  
and offer their services and we have a

105  
00:04:51,649 --> 00:04:48,990  
database that we're building and we

106  
00:04:53,240 --> 00:04:51,659  
match them up and the intent here I

107  
00:04:57,110 --> 00:04:53,250  
don't know if you've noticed i just did

108  
00:05:01,040 --> 00:04:57,120  
this blog post on the skeptics blog port

109  
00:05:02,779 --> 00:05:01,050  
am on this that you've got shows now

110  
00:05:05,390 --> 00:05:02,789  
coming on things like The Mentalist

111  
00:05:07,600 --> 00:05:05,400  
things like house things like CSI that

112  
00:05:10,399 --> 00:05:07,610  
have a much more scientific based

113  
00:05:11,899 --> 00:05:10,409

rational approach Mentalist in

114

00:05:14,029 --> 00:05:11,909

particular especially on the earlier

115

00:05:15,890 --> 00:05:14,039

episodes really drove home there's no

116

00:05:17,839 --> 00:05:15,900

such thing as psychics you know run-in

117

00:05:19,879 --> 00:05:17,849

lie to me actually in their second

118

00:05:22,610 --> 00:05:19,889

episode debunked lie detector tests

119

00:05:24,350 --> 00:05:22,620

you've got Gregory House who is like

120

00:05:26,209 --> 00:05:24,360

this complete curmudgeon but people will

121

00:05:28,659 --> 00:05:26,219

listen to a negative message from him

122

00:05:31,369 --> 00:05:28,669

because they love the character so and

123

00:05:33,469 --> 00:05:31,379

you know you can nitpick all you want

124

00:05:35,570 --> 00:05:33,479

about these shows but the fact is week

125

00:05:37,430 --> 00:05:35,580

after week after week this message is

126

00:05:39,140 --> 00:05:37,440

getting drilled into people and that

127

00:05:41,240 --> 00:05:39,150

does over the long term have an effect

128

00:05:43,999 --> 00:05:41,250

so the National Academy is hoping to

129

00:05:46,219 --> 00:05:44,009

basically foster this current trend in

130

00:05:47,629 --> 00:05:46,229

television and day and get more

131

00:05:49,730 --> 00:05:47,639

interactions between science and

132

00:05:51,490 --> 00:05:49,740

Hollywood in hopes of changing the way

133

00:05:53,420 --> 00:05:51,500

science and scientists are trained

134

00:05:56,809 --> 00:05:53,430

that's very interesting you should say

135

00:05:59,409 --> 00:05:56,819

that because we have also mentioning

136

00:06:02,300 --> 00:05:59,419

house of course we have also are

137

00:06:04,700 --> 00:06:02,310

starring in house hugh laurie who is a

138

00:06:06,769 --> 00:06:04,710

very well-known skeptic in fact and i

139

00:06:08,990 --> 00:06:06,779

don't know how much influence he has

140

00:06:11,499 --> 00:06:09,000

personally on the scripts or what have

141

00:06:14,749 --> 00:06:11,509

you but certainly the house character is

142

00:06:17,059 --> 00:06:14,759

comes across as a quite a strong skeptic

143

00:06:18,439 --> 00:06:17,069

in many aspects oh yeah he's a marvelous

144

00:06:20,300 --> 00:06:18,449

character and of course i'ma i've been a

145

00:06:22,279 --> 00:06:20,310

fan of hugh laurie for years i was a big

146

00:06:25,459 --> 00:06:22,289

black at her fan i used to watch fry and

147

00:06:26,749 --> 00:06:25,469

laurie so unusual for an American I find

148

00:06:29,360 --> 00:06:26,759

that very few Americans have heard of

149

00:06:30,980 --> 00:06:29,370

blackadder but I remember from that so

150

00:06:34,550 --> 00:06:30,990

here we know an American accent come out

151

00:06:36,879 --> 00:06:34,560

of his mouth is really bizarre it is

152

00:06:38,350 --> 00:06:36,889

anybody does it very well of course

153

00:06:40,809 --> 00:06:38,360

er here on the skeptics and we

154

00:06:44,499 --> 00:06:40,819

interviewed his partner former partner

155

00:06:46,360 --> 00:06:44,509

and great friend Stephen Fry Oh big

156

00:06:48,939 --> 00:06:46,370

friend of science yeah oh absolutely

157

00:06:52,839 --> 00:06:48,949

stephen Fry's a huge friend of science

158

00:06:55,420 --> 00:06:52,849

and a skeptical man himself and also

159

00:06:57,820 --> 00:06:55,430

another link i can make with the

160

00:07:00,339 --> 00:06:57,830

mentalist is it stars Simon Baker who is

161

00:07:01,629 --> 00:07:00,349

of course Australian exactly exactly i

162

00:07:03,700 --> 00:07:01,639

did let me tell you if you're gonna if

163

00:07:05,679 --> 00:07:03,710

you're going to you know crush people's

164

00:07:07,390 --> 00:07:05,689

you know delusions and tell them there's

165

00:07:09,779 --> 00:07:07,400

no such thing as psychics at least give

166

00:07:14,260 --> 00:07:09,789

them Simon Baker to deliver them

167

00:07:16,390 --> 00:07:14,270

speaking as a woman you know at least a

168

00:07:17,860 --> 00:07:16,400

devilish smile saying you know honey

169

00:07:19,149 --> 00:07:17,870

there's no such thing as psychics but

170

00:07:22,899 --> 00:07:19,159

I'll smile at you and that'll make it

171

00:07:24,279 --> 00:07:22,909

better I must remember that there's a

172

00:07:25,779 --> 00:07:24,289

little tip for me there thank you

173

00:07:27,519 --> 00:07:25,789

because I've been known to go on TV

174

00:07:32,019 --> 00:07:27,529

myself from time to time and tell people

175

00:07:33,969 --> 00:07:32,029

there are no such things as psychics get

176  
00:07:35,529 --> 00:07:33,979  
that you know devil-may-care smile in

177  
00:07:38,679 --> 00:07:35,539  
there and you might actually find that

178  
00:07:40,540 --> 00:07:38,689  
they'll be more likely to listen good

179  
00:07:42,519 --> 00:07:40,550  
tip a very good tip now it's very

180  
00:07:44,320 --> 00:07:42,529  
interesting you should should be

181  
00:07:46,749 --> 00:07:44,330  
concerned with this at the moment I have

182  
00:07:49,390 --> 00:07:46,759  
had experiences myself with television

183  
00:07:53,950 --> 00:07:49,400  
and in the movie industry is it very

184  
00:07:56,439 --> 00:07:53,960  
difficult to to try and get producers

185  
00:07:58,570 --> 00:07:56,449  
especially knowing the industry a little

186  
00:08:00,670 --> 00:07:58,580  
bit as I do to come around to your way

187  
00:08:02,889 --> 00:08:00,680  
of thinking or at least see the benefit

188  
00:08:04,929 --> 00:08:02,899

of being accurate well are you it's

189

00:08:06,850 --> 00:08:04,939

surprising I think there's a lot it that

190

00:08:08,829 --> 00:08:06,860

may have been the case more in the past

191

00:08:10,510 --> 00:08:08,839

and it probably still is to a certain

192

00:08:12,879 --> 00:08:10,520

extent the case because people change

193

00:08:14,230 --> 00:08:12,889

slowly but I mean Hollywood is

194

00:08:15,760 --> 00:08:14,240

essentially about making money it's not

195

00:08:17,110 --> 00:08:15,770

about all tourism it's basically you

196

00:08:19,899 --> 00:08:17,120

know what's there is this is the show

197

00:08:22,659 --> 00:08:19,909

going to be a hit and I think that you

198

00:08:25,179 --> 00:08:22,669

know a lot of the big hit shows right

199

00:08:26,860 --> 00:08:25,189

now have been science need with a

200

00:08:28,600 --> 00:08:26,870

rational theme a lot of the procedurals

201  
00:08:31,119 --> 00:08:28,610  
they want procedurals that have this

202  
00:08:33,370 --> 00:08:31,129  
court of science skeptical rationalist

203  
00:08:35,290 --> 00:08:33,380  
worldview associated with them and they

204  
00:08:36,969 --> 00:08:35,300  
really like that you've got a built-in

205  
00:08:41,079 --> 00:08:36,979  
drama for starters whenever they come

206  
00:08:42,939 --> 00:08:41,089  
across New Age stuff so they just really

207  
00:08:45,280 --> 00:08:42,949  
like it and so I think that in terms of

208  
00:08:47,920 --> 00:08:45,290  
television at least a lot of them are

209  
00:08:50,590 --> 00:08:47,930  
more open to it and we have certainly

210  
00:08:52,329 --> 00:08:50,600  
had we have you know pretty

211  
00:08:53,889 --> 00:08:52,339  
and directors coming to us for major

212  
00:08:55,720 --> 00:08:53,899  
films wanting to work with us I mean

213  
00:09:00,189 --> 00:08:55,730

it's not that they don't care about the

214

00:09:01,329 --> 00:09:00,199

science they do the trick is that mainly

215

00:09:02,920 --> 00:09:01,339

what they were afraid of is that the

216

00:09:05,079 --> 00:09:02,930

scientists will try and assist they do a

217

00:09:07,420 --> 00:09:05,089

documentary and ultimately we're talking

218

00:09:10,420 --> 00:09:07,430

about a story mmm the science is always

219

00:09:11,889 --> 00:09:10,430

going to take a backseat to the story so

220

00:09:13,509 --> 00:09:11,899

I mean I think it's very important that

221

00:09:15,850 --> 00:09:13,519

we not get confused about what we can

222

00:09:17,680 --> 00:09:15,860

accomplish in Hollywood and and na s the

223

00:09:19,300 --> 00:09:17,690

National Academy is very clear that we

224

00:09:22,569 --> 00:09:19,310

do not interfere with the narrative with

225

00:09:24,400 --> 00:09:22,579

the story we want to we want Hollywood

226

00:09:26,470 --> 00:09:24,410

to basically help us inspire people and

227

00:09:28,629 --> 00:09:26,480

get them interested in science and in

228

00:09:30,249 --> 00:09:28,639

rationalism so that they then go on and

229

00:09:31,840 --> 00:09:30,259

read more and become more educated but

230

00:09:33,189 --> 00:09:31,850

if you don't get that initial spark if

231

00:09:35,620 --> 00:09:33,199

you don't get that initial hey this

232

00:09:36,790 --> 00:09:35,630

looks cool then you've already lost you

233

00:09:38,350 --> 00:09:36,800

can make all you can make the best

234

00:09:40,569 --> 00:09:38,360

documentaries in the world and no one's

235

00:09:41,860 --> 00:09:40,579

going to like the open to them so that's

236

00:09:44,019 --> 00:09:41,870

kind of what we focus on and we find

237

00:09:46,329 --> 00:09:44,029

they are very open to that they look of

238

00:09:48,670 --> 00:09:46,339

sitting down with scientists they love

239

00:09:50,470 --> 00:09:48,680

hashing out ideas they don't always take

240

00:09:52,389 --> 00:09:50,480

the ideas or sometimes they'll take the

241

00:09:53,800 --> 00:09:52,399

idea and they'll reinvent it in a way

242

00:09:55,660 --> 00:09:53,810

that maybe might make a scientist a

243

00:09:58,660 --> 00:09:55,670

little uncomfortable and you kind of

244

00:10:00,519 --> 00:09:58,670

have to let go of that yeah and yeah you

245

00:10:03,429 --> 00:10:00,529

know in the long term gradually we're

246

00:10:05,590 --> 00:10:03,439

making a long-term change yes well I I

247

00:10:07,840 --> 00:10:05,600

can certainly see the point of view from

248

00:10:08,980 --> 00:10:07,850

the producer they do as you say in the

249

00:10:11,800 --> 00:10:08,990

end of the day they're trying to make a

250

00:10:13,960 --> 00:10:11,810

product that will sell and there will be

251  
00:10:16,300 --> 00:10:13,970  
comes a time where they're simply not

252  
00:10:19,030 --> 00:10:16,310  
going to let the truth get into in the

253  
00:10:20,920 --> 00:10:19,040  
way of a good story well or you have to

254  
00:10:22,629 --> 00:10:20,930  
bend the facts I mean you know sometimes

255  
00:10:24,490 --> 00:10:22,639  
a fact you know it might be factually

256  
00:10:25,840 --> 00:10:24,500  
correct but it's actually really hard to

257  
00:10:27,610 --> 00:10:25,850  
get everything else in the story to work

258  
00:10:28,900 --> 00:10:27,620  
around that so it's not even that

259  
00:10:32,199 --> 00:10:28,910  
they're trying to hide it they're just

260  
00:10:33,550 --> 00:10:32,209  
trying to get the story to move and you

261  
00:10:35,740 --> 00:10:33,560  
know I know that I've actually talked to

262  
00:10:37,689 --> 00:10:35,750  
people who have seen CSI and complain of

263  
00:10:40,179 --> 00:10:37,699

DNA results come back so quickly it's

264

00:10:41,949 --> 00:10:40,189

because nobody wants to wait two weeks

265

00:10:46,030 --> 00:10:41,959

for DNA results to come back you've got

266

00:10:47,620 --> 00:10:46,040

to get on with the story an extreme

267

00:10:50,710 --> 00:10:47,630

example that it's the kind of thing you

268

00:10:52,389 --> 00:10:50,720

run into do you do you think the

269

00:10:55,809 --> 00:10:52,399

popularity now of this sort of thing

270

00:10:57,850 --> 00:10:55,819

this sort of new science content could

271

00:10:59,949 --> 00:10:57,860

be traced back to the boom in such

272

00:11:02,799 --> 00:10:59,959

programs as CSI and all these wonderful

273

00:11:03,230 --> 00:11:02,809

medical investigating forensic type

274

00:11:05,570 --> 00:11:03,240

program

275

00:11:07,220 --> 00:11:05,580

well certainly medical has always been a

276

00:11:08,840 --> 00:11:07,230

big deal dating all the way back to

277

00:11:11,630 --> 00:11:08,850

Marcus well Kobe and people have always

278

00:11:13,699 --> 00:11:11,640

loved detective stories the brilliance

279

00:11:15,670 --> 00:11:13,709

of CSI is it combined the science of

280

00:11:18,230 --> 00:11:15,680

forensics with a detective story and

281

00:11:20,180 --> 00:11:18,240

that turned out to be just a golden

282

00:11:22,910 --> 00:11:20,190

combination in terms of network gold

283

00:11:25,490 --> 00:11:22,920

ratings gold and now that's now you've

284

00:11:26,870 --> 00:11:25,500

got numbers and now you've got bones and

285

00:11:29,420 --> 00:11:26,880

you've got all these procedurals

286

00:11:31,340 --> 00:11:29,430

essentially where you can have a set

287

00:11:33,680 --> 00:11:31,350

cast of characters that can develop and

288

00:11:35,150 --> 00:11:33,690

grow over various seasons but you also

289

00:11:38,000 --> 00:11:35,160

get these nice little standalone

290

00:11:41,449 --> 00:11:38,010

episodes where you solve a crime in an

291

00:11:42,920 --> 00:11:41,459

hour and it's just a fantastic you know

292

00:11:46,670 --> 00:11:42,930

for whatever reason it just broadly

293

00:11:48,530 --> 00:11:46,680

appeals to a huge audience that's not

294

00:11:49,970 --> 00:11:48,540

and it's not a bad thing I mean one of

295

00:11:52,910 --> 00:11:49,980

the things I made a point in my blog

296

00:11:54,860 --> 00:11:52,920

post is you know it's actually good news

297

00:11:58,190 --> 00:11:54,870

that there is now a demand for these

298

00:11:59,690 --> 00:11:58,200

sort of things I think so it's also I

299

00:12:01,550 --> 00:11:59,700

can't help thinking it's interesting at

300

00:12:04,010 --> 00:12:01,560

roughly the same time we've got the

301  
00:12:06,680 --> 00:12:04,020  
growth than the sprouting of these sort

302  
00:12:10,250 --> 00:12:06,690  
of CSI crime investigation type programs

303  
00:12:13,130 --> 00:12:10,260  
using well albeit a little bit stretched

304  
00:12:15,949 --> 00:12:13,140  
to the imagination scientific forensic

305  
00:12:18,290 --> 00:12:15,959  
work we've also had a couple of a gaggle

306  
00:12:21,650 --> 00:12:18,300  
of these psychic detective shows oh

307  
00:12:23,630 --> 00:12:21,660  
right right although you've also got

308  
00:12:25,579 --> 00:12:23,640  
things like psych which is a fake you

309  
00:12:27,110 --> 00:12:25,589  
know psychic detective show yeah and

310  
00:12:29,540 --> 00:12:27,120  
you've got the mentalist who's a fake

311  
00:12:32,870 --> 00:12:29,550  
psychic detective who openly us a fake

312  
00:12:34,910 --> 00:12:32,880  
psychic um but you know I think that if

313  
00:12:37,880 --> 00:12:34,920

you look at the ratings though I think

314

00:12:39,230 --> 00:12:37,890

you actually find that if you if you get

315

00:12:41,090 --> 00:12:39,240

all the radiance of like the mentalist

316

00:12:42,769 --> 00:12:41,100

and CSI and numbers and all those they

317

00:12:45,050 --> 00:12:42,779

dwarf the other ones they dwarf the

318

00:12:47,090 --> 00:12:45,060

ghost whisperer for example but it's

319

00:12:49,220 --> 00:12:47,100

that it's that same formula I mean

320

00:12:51,699 --> 00:12:49,230

notice that they just people love the

321

00:12:55,340 --> 00:12:51,709

procedural they love solving a mystery

322

00:12:57,410 --> 00:12:55,350

yeah absolutely I certainly have when

323

00:12:59,690 --> 00:12:57,420

those shows are good i love to watch

324

00:13:01,250 --> 00:12:59,700

them too now i have actually tried to

325

00:13:02,870 --> 00:13:01,260

sit down and watch a couple of episodes

326

00:13:04,310 --> 00:13:02,880

of medium I've never seen the ghost

327

00:13:07,340 --> 00:13:04,320

whisperer although it is shown here in

328

00:13:09,230 --> 00:13:07,350

Australia and you know what I have to

329

00:13:11,600 --> 00:13:09,240

admit a big fail I couldn't get through

330

00:13:13,579 --> 00:13:11,610

it I I think I don't think I've ever

331

00:13:15,620 --> 00:13:13,589

seen an episode of medium I've seen a

332

00:13:16,420 --> 00:13:15,630

caught bits and pieces of the ghost

333

00:13:21,010 --> 00:13:16,430

whisperer

334

00:13:23,470 --> 00:13:21,020

yes numbers comes on right after it is

335

00:13:27,700 --> 00:13:23,480

really bizarre skewed kind of network

336

00:13:30,340 --> 00:13:27,710

you know logic is now and you know it's

337

00:13:32,230 --> 00:13:30,350

not you know it it's not that people are

338

00:13:33,820 --> 00:13:32,240

in there in love with the story you know

339

00:13:35,620 --> 00:13:33,830

and I think sometimes we mistake the

340

00:13:37,300 --> 00:13:35,630

fact that you know they love the story

341

00:13:39,370 --> 00:13:37,310

and therefore that means that they you

342

00:13:40,780 --> 00:13:39,380

know they won't take a skeptical view

343

00:13:42,400 --> 00:13:40,790

point give them a wonderful character

344

00:13:44,769 --> 00:13:42,410

and a great story and get them invested

345

00:13:46,540 --> 00:13:44,779

in that and they'll accept it and I

346

00:13:49,120 --> 00:13:46,550

think that Mentalist and CSI and these

347

00:13:50,710 --> 00:13:49,130

other shows prove that I mean it's

348

00:13:52,510 --> 00:13:50,720

really it's really about the powerful

349

00:13:54,280 --> 00:13:52,520

story I don't think medium is actually

350

00:13:56,680 --> 00:13:54,290

even a big hit ratings wise I mean it's

351  
00:13:58,960 --> 00:13:56,690  
one of those shows that does okay in it

352  
00:14:00,370 --> 00:13:58,970  
you know that they keep it going but it

353  
00:14:02,230 --> 00:14:00,380  
certainly is not the kind of show that

354  
00:14:03,670 --> 00:14:02,240  
causes a lot of buzz that you it's not

355  
00:14:06,340 --> 00:14:03,680  
one of their big moneymakers let's put

356  
00:14:08,470 --> 00:14:06,350  
it that way it's interesting to know

357  
00:14:11,199 --> 00:14:08,480  
that a lot of people do consider what

358  
00:14:13,180 --> 00:14:11,209  
they see on programs like CSI and on the

359  
00:14:15,280 --> 00:14:13,190  
flip side programs like medium is being

360  
00:14:17,230 --> 00:14:15,290  
more or less like a mini documentary I

361  
00:14:19,030 --> 00:14:17,240  
know and I find that really interesting

362  
00:14:24,699 --> 00:14:19,040  
because I I there someone told me the

363  
00:14:26,740 --> 00:14:24,709

story that some some night government

364

00:14:28,540 --> 00:14:26,750

agency approached that the producers of

365

00:14:30,340 --> 00:14:28,550

24 basically saying that they were

366

00:14:32,650 --> 00:14:30,350

getting recruits who were thinking that

367

00:14:36,510 --> 00:14:32,660

kiefer sutherland's characters approach

368

00:14:39,190 --> 00:14:36,520

to interrogation was somehow okay yeah

369

00:14:40,690 --> 00:14:39,200

all the ways that he violates rules and

370

00:14:43,750 --> 00:14:40,700

they were asking him to basically could

371

00:14:45,610 --> 00:14:43,760

you change the depiction of this and you

372

00:14:46,900 --> 00:14:45,620

know okay on the one hand I understand

373

00:14:48,370 --> 00:14:46,910

but on the other kind of going maybe

374

00:14:49,750 --> 00:14:48,380

what you should be emphasizing to your

375

00:14:51,970 --> 00:14:49,760

recruits is that the difference between

376

00:14:53,710 --> 00:14:51,980

fiction and reality and that this is a

377

00:14:55,660 --> 00:14:53,720

show and it's entertainment it's

378

00:14:57,850 --> 00:14:55,670

supposed to be fun and yes we want it to

379

00:15:00,670 --> 00:14:57,860

be believable and have some realistic

380

00:15:02,110 --> 00:15:00,680

elements in it to add plausibility but

381

00:15:03,910 --> 00:15:02,120

we never lose sight of the fact that

382

00:15:06,480 --> 00:15:03,920

it's fiction and if some people haven't

383

00:15:09,280 --> 00:15:06,490

that's a bigger problem than the TV show

384

00:15:13,690 --> 00:15:09,290

well it's actually it's a very old story

385

00:15:15,280 --> 00:15:13,700

because I remember hearing and this is a

386

00:15:17,050 --> 00:15:15,290

document it actually really happened

387

00:15:19,510 --> 00:15:17,060

it's documented that in the days when

388

00:15:21,490 --> 00:15:19,520

Gilligan's Island was shown the US Coast

389

00:15:23,050 --> 00:15:21,500

Guard were getting mailed to them saying

390

00:15:25,030 --> 00:15:23,060

why are you looking for these people I

391

00:15:26,829 --> 00:15:25,040

know and Marcus Welby used to get like

392

00:15:28,809 --> 00:15:26,839

you know letters from people asking for

393

00:15:30,669 --> 00:15:28,819

medical advice

394

00:15:32,349 --> 00:15:30,679

seriously I mean they thought he was

395

00:15:36,279 --> 00:15:32,359

with and what can you do with those

396

00:15:37,509 --> 00:15:36,289

people I don't know she's like okay

397

00:15:39,279 --> 00:15:37,519

Jennifer that that's really interesting

398

00:15:41,139 --> 00:15:39,289

and of course you realize I have a

399

00:15:42,819 --> 00:15:41,149

sneaking interest in this sort of thing

400

00:15:44,829 --> 00:15:42,829

that movies and the TV from my

401  
00:15:47,109 --> 00:15:44,839  
experience but I'll hand you over now to

402  
00:15:50,319 --> 00:15:47,119  
Kylie who's going to ask you some other

403  
00:15:52,539 --> 00:15:50,329  
questions Kylie hello Jennifer your

404  
00:15:54,879 --> 00:15:52,549  
website says that you stumbled into

405  
00:15:56,289 --> 00:15:54,889  
writing about science and bone to

406  
00:15:58,059 --> 00:15:56,299  
appreciate it after working on a

407  
00:16:00,549 --> 00:15:58,069  
graduate degree in literature now I'm

408  
00:16:01,779 --> 00:16:00,559  
why did you begin this journey well you

409  
00:16:03,369 --> 00:16:01,789  
know it's interesting I never finished

410  
00:16:06,189 --> 00:16:03,379  
that graduate degree in literature i

411  
00:16:09,219 --> 00:16:06,199  
started to basically get a masters

412  
00:16:11,409 --> 00:16:09,229  
degree and sia that really wasn't for me

413  
00:16:13,509 --> 00:16:11,419

and kind of lost direction a little bit

414

00:16:15,549 --> 00:16:13,519

and sometimes when you lose direction in

415

00:16:18,489 --> 00:16:15,559

that really fundamental way you end up

416

00:16:20,019 --> 00:16:18,499

finding yourself and that's kind of what

417

00:16:22,150 --> 00:16:20,029

happened i ended up working for a

418

00:16:24,729 --> 00:16:22,160

physics organization called the american

419

00:16:26,259 --> 00:16:24,739

physical society and i had never taken

420

00:16:28,900 --> 00:16:26,269

physics in high school in fact i had

421

00:16:30,549 --> 00:16:28,910

probably avoided it even though i'd

422

00:16:31,900 --> 00:16:30,559

always done well in science and things

423

00:16:34,629 --> 00:16:31,910

like that and always had a certain

424

00:16:38,169 --> 00:16:34,639

amount of a rational view point to life

425

00:16:41,079 --> 00:16:38,179

I certainly had not had any kind of

426

00:16:42,729 --> 00:16:41,089

scientific background and just by you

427

00:16:43,929 --> 00:16:42,739

know hanging out with physicists and

428

00:16:45,249 --> 00:16:43,939

interviewing them and writing about

429

00:16:47,649 --> 00:16:45,259

their work and this sort of thing and

430

00:16:50,229 --> 00:16:47,659

had a profound change and impact on on

431

00:16:51,999 --> 00:16:50,239

my life and I end up becoming a science

432

00:16:53,739 --> 00:16:52,009

writer of all things and if you had

433

00:16:54,849 --> 00:16:53,749

asked me at the age of 18 that I would

434

00:16:56,649 --> 00:16:54,859

be a science writer would have laughed

435

00:16:59,349 --> 00:16:56,659

at you but in fact it turned out to be

436

00:17:01,210 --> 00:16:59,359

the perfect thing did people pick up on

437

00:17:02,919 --> 00:17:01,220

your enthusiasm or were there many

438

00:17:04,689 --> 00:17:02,929

people who stood back and said what she

439

00:17:06,639 --> 00:17:04,699

do even our turn there's a science

440

00:17:08,649 --> 00:17:06,649

communication well you know it's really

441

00:17:11,769 --> 00:17:08,659

funny that I only get that really from

442

00:17:13,419 --> 00:17:11,779

the occasional scientist believe it or

443

00:17:15,610 --> 00:17:13,429

not I don't get it from other people

444

00:17:17,230 --> 00:17:15,620

what I get from other you get the usual

445

00:17:19,480 --> 00:17:17,240

you must be really smart I could never

446

00:17:21,309 --> 00:17:19,490

understand that and that always makes me

447

00:17:22,600 --> 00:17:21,319

angry because I think you know you're

448

00:17:24,999 --> 00:17:22,610

selling yourself short you can't

449

00:17:26,499 --> 00:17:25,009

understand it you just need to find a

450

00:17:27,999 --> 00:17:26,509

good communicator who can explain the

451  
00:17:30,930 --> 00:17:28,009  
concepts to you and you can understand

452  
00:17:34,990 --> 00:17:30,940  
it anyone can because I'm not a genius

453  
00:17:37,690 --> 00:17:35,000  
and when my first book came out I think

454  
00:17:39,909 --> 00:17:37,700  
that I would occasionally get the odd

455  
00:17:41,830 --> 00:17:39,919  
scientists basically saying how dare you

456  
00:17:42,549 --> 00:17:41,840  
speak for SCIENCE&U English major scum

457  
00:17:44,950 --> 00:17:42,559  
essentially

458  
00:17:47,320 --> 00:17:44,960  
that's I only scientists should be

459  
00:17:49,210 --> 00:17:47,330  
talking about science and of course you

460  
00:17:51,190 --> 00:17:49,220  
know that those people who say those

461  
00:17:54,129 --> 00:17:51,200  
sorts of things are rarities they are

462  
00:17:56,049 --> 00:17:54,139  
not a representative of the field at all

463  
00:17:57,489 --> 00:17:56,059

and I was certainly had been around

464

00:17:59,320 --> 00:17:57,499

scientists enough by then to know that

465

00:18:00,779 --> 00:17:59,330

those those were just crazy people so I

466

00:18:03,930 --> 00:18:00,789

was able to kind of like block that out

467

00:18:05,860 --> 00:18:03,940

but ugh you get that sometimes and

468

00:18:08,259 --> 00:18:05,870

certainly now we can see the

469

00:18:11,350 --> 00:18:08,269

intersection between science literature

470

00:18:12,700 --> 00:18:11,360

growing even more and more right but at

471

00:18:14,470 --> 00:18:12,710

the time I think that really wasn't

472

00:18:16,749 --> 00:18:14,480

quite that things were very much still

473

00:18:18,850 --> 00:18:16,759

sex segregated and one of the reasons I

474

00:18:21,340 --> 00:18:18,860

wrote that first book and it has a lot

475

00:18:23,220 --> 00:18:21,350

of broad cultural references in terms of

476

00:18:25,869 --> 00:18:23,230

literature and theatre and art and

477

00:18:27,489 --> 00:18:25,879

history and all these various things and

478

00:18:29,739 --> 00:18:27,499

it was the science in with all of that

479

00:18:31,629 --> 00:18:29,749

because I felt that science had kind of

480

00:18:33,789 --> 00:18:31,639

been unjustly separated from the rest of

481

00:18:35,590 --> 00:18:33,799

culture there's our broader culture than

482

00:18:37,419 --> 00:18:35,600

their science way over in left field and

483

00:18:39,369 --> 00:18:37,429

only smart people get to do science and

484

00:18:41,109 --> 00:18:39,379

I that there's there's something just

485

00:18:44,739 --> 00:18:41,119

intrinsically wrong to meet with that

486

00:18:46,989 --> 00:18:44,749

mindset we can see the interchange

487

00:18:49,419 --> 00:18:46,999

between science literature pop culture

488

00:18:51,279 --> 00:18:49,429

within your popular blog cocktail party

489

00:18:52,899 --> 00:18:51,289

physics which has physics with the twist

490

00:18:54,609 --> 00:18:52,909

and that's been going for the last two

491

00:18:56,080 --> 00:18:54,619

years or so hasn't it actually even

492

00:18:59,379 --> 00:18:56,090

longer going a little over three years

493

00:19:01,299 --> 00:18:59,389

yes i know i know three years now and it

494

00:19:02,799 --> 00:19:01,309

started because again the first book

495

00:19:03,879 --> 00:19:02,809

people asked me to describe it at night

496

00:19:05,919 --> 00:19:03,889

kind of it well it's kind of cocktail

497

00:19:08,139 --> 00:19:05,929

party physics it's like it's not really

498

00:19:11,080 --> 00:19:08,149

deep and you know there are certain

499

00:19:12,700 --> 00:19:11,090

errors of omission you might say what my

500

00:19:14,289 --> 00:19:12,710

friend Chad ors will call is lying to

501  
00:19:16,239 --> 00:19:14,299  
children where you just choose to omit

502  
00:19:17,830 --> 00:19:16,249  
certain complicating factors and you

503  
00:19:20,200 --> 00:19:17,840  
just tell entertaining stories and weave

504  
00:19:22,389 --> 00:19:20,210  
the science in and it's a way of getting

505  
00:19:24,249 --> 00:19:22,399  
people familiar and interested in what

506  
00:19:27,039 --> 00:19:24,259  
is normally a kind of a scary subject

507  
00:19:29,560 --> 00:19:27,049  
for them I've noticed that there's quite

508  
00:19:31,359 --> 00:19:29,570  
a few additional bloggers and they all

509  
00:19:33,879 --> 00:19:31,369  
help add to the mixture of the cocktail

510  
00:19:36,460 --> 00:19:33,889  
party no I got nish initially it was a

511  
00:19:37,749 --> 00:19:36,470  
solo blog and then last fall when I when

512  
00:19:39,310 --> 00:19:37,759  
I was getting ready to take on the

513  
00:19:40,960 --> 00:19:39,320

position at the exchange with the

514

00:19:42,999 --> 00:19:40,970

National Academy I realized that I

515

00:19:44,739 --> 00:19:43,009

really did need decide to make it a

516

00:19:46,509 --> 00:19:44,749

really an actual cocktail party and get

517

00:19:47,950 --> 00:19:46,519

different voices in and I think that

518

00:19:51,580 --> 00:19:47,960

it's been a phenomenal decision they've

519

00:19:53,200 --> 00:19:51,590

been great and you really attend

520

00:19:55,029 --> 00:19:53,210

conferences with other scientists and

521

00:19:56,320 --> 00:19:55,039

science plugins such as blogging heads

522

00:19:58,389 --> 00:19:56,330

TV how

523

00:20:00,009 --> 00:19:58,399

important do you think the networking is

524

00:20:01,899 --> 00:20:00,019

with fellow science writers how much

525

00:20:03,970 --> 00:20:01,909

does it add to the enjoyment of

526  
00:20:05,769 --> 00:20:03,980  
communicating what adds it what

527  
00:20:07,570 --> 00:20:05,779  
enjoyment adds to the enjoyment I think

528  
00:20:09,909 --> 00:20:07,580  
more than anything I mean it's just

529  
00:20:11,139 --> 00:20:09,919  
we're in a hard feel particularly in

530  
00:20:12,610 --> 00:20:11,149  
this day and age where we're not sure

531  
00:20:13,930 --> 00:20:12,620  
where print is going we don't have to

532  
00:20:16,299 --> 00:20:13,940  
share what our jobs are going to be in

533  
00:20:18,549 --> 00:20:16,309  
10 years I mean I think science writing

534  
00:20:20,139 --> 00:20:18,559  
is going to reinvent itself but I'm

535  
00:20:22,779 --> 00:20:20,149  
certainly not going to predict where

536  
00:20:24,399 --> 00:20:22,789  
it's going to go so these sorts of

537  
00:20:25,990 --> 00:20:24,409  
interactions with our science writers

538  
00:20:27,880 --> 00:20:26,000

are very important I mean I want to know

539

00:20:29,830 --> 00:20:27,890

my colleagues and invariably they're all

540

00:20:30,909 --> 00:20:29,840

very supportive i mean people sometimes

541

00:20:32,289 --> 00:20:30,919

get this idea that we're all very

542

00:20:34,690 --> 00:20:32,299

competitive with each other but I've

543

00:20:36,600 --> 00:20:34,700

never found that to be the case and then

544

00:20:40,180 --> 00:20:36,610

I've always been incredibly supportive

545

00:20:41,980 --> 00:20:40,190

and recently you gave blog readers the

546

00:20:43,389 --> 00:20:41,990

teaser about book writing are you able

547

00:20:46,180 --> 00:20:43,399

to tell us much about the book that's in

548

00:20:48,610 --> 00:20:46,190

the ranking uh yeah actually it's I'm

549

00:20:50,529 --> 00:20:48,620

kind of doing for calculus what I did

550

00:20:52,060 --> 00:20:50,539

for physics initially except this is a

551

00:20:53,799 --> 00:20:52,070

little bit more the blog voice it's more

552

00:20:58,029 --> 00:20:53,809

personal so it's a book about learning

553

00:21:00,730 --> 00:20:58,039

calculus in my 40s essentially oh yeah

554

00:21:02,139 --> 00:21:00,740

it's called dangerous curves how I

555

00:21:06,759 --> 00:21:02,149

learned to stop worrying and love the

556

00:21:08,529 --> 00:21:06,769

calculus so um so that's I'm basically

557

00:21:10,840 --> 00:21:08,539

doing things like going to Vegas and

558

00:21:12,610 --> 00:21:10,850

going to Disneyland and putting calculus

559

00:21:14,740 --> 00:21:12,620

back into the real world and saying you

560

00:21:17,110 --> 00:21:14,750

know there's actually you know when you

561

00:21:19,120 --> 00:21:17,120

get doused on Splash Mountain and your

562

00:21:21,490 --> 00:21:19,130

clothes dry off the rate at which they

563

00:21:23,919 --> 00:21:21,500

dry off forms an exponential decay curve

564

00:21:25,299 --> 00:21:23,929

you know and that's calculus and there's

565

00:21:27,730 --> 00:21:25,309

a problem that you can do to figure that

566

00:21:29,919 --> 00:21:27,740

out have you noticed that there's been a

567

00:21:32,590 --> 00:21:29,929

recent trend towards books investigating

568

00:21:35,200 --> 00:21:32,600

max I recall danica mckellar for example

569

00:21:37,690 --> 00:21:35,210

is another author who has begun in

570

00:21:39,759 --> 00:21:37,700

getting mats into the mainstream right

571

00:21:40,870 --> 00:21:39,769

and Danica is wonderful because she's

572

00:21:42,940 --> 00:21:40,880

good at math and she's this really

573

00:21:44,399 --> 00:21:42,950

pretty young woman who was an actress so

574

00:21:46,810 --> 00:21:44,409

she's already well known to people

575

00:21:48,879 --> 00:21:46,820

certainly the television show numbers I

576  
00:21:51,549 --> 00:21:48,889  
think helped I mean I think numbers does

577  
00:21:53,769 --> 00:21:51,559  
a fantastic job of showing how you know

578  
00:21:56,049 --> 00:21:53,779  
their tagline is we all use math every

579  
00:21:57,610 --> 00:21:56,059  
day and it's interesting because my

580  
00:21:59,769 --> 00:21:57,620  
husband and I were house-hunting earlier

581  
00:22:01,600 --> 00:21:59,779  
this year and it occurred to me i mean

582  
00:22:03,639 --> 00:22:01,610  
that's going that is going to be in the

583  
00:22:05,740 --> 00:22:03,649  
book that experience because it occurred

584  
00:22:08,529 --> 00:22:05,750  
to me that what we were doing in the

585  
00:22:10,269 --> 00:22:08,539  
process of choosing a house was a multi

586  
00:22:12,219 --> 00:22:10,279  
variable optimization problem

587  
00:22:13,509 --> 00:22:12,229  
where we had all these variables of

588  
00:22:15,549 --> 00:22:13,519

things we wanted in a house and we

589

00:22:17,019 --> 00:22:15,559

weren't going to get all of them there's

590

00:22:18,249 --> 00:22:17,029

no such thing as the perfect house that

591

00:22:20,589 --> 00:22:18,259

we had to figure out what the optimal

592

00:22:22,690 --> 00:22:20,599

combination was and I think conceptually

593

00:22:25,359 --> 00:22:22,700

we all do this whenever we comparison

594

00:22:27,459 --> 00:22:25,369

shop on anything and it never occurs to

595

00:22:29,799 --> 00:22:27,469

us this is the fund of the concept

596

00:22:31,209 --> 00:22:29,809

behind a basic calculus problem but it

597

00:22:32,619 --> 00:22:31,219

is and then you just have to figure out

598

00:22:35,589 --> 00:22:32,629

a way to quantify it and then you've got

599

00:22:37,989 --> 00:22:35,599

the math yeah there'll be a couple blog

600

00:22:39,399 --> 00:22:37,999

posts up over the summer as I'm kind of

601  
00:22:41,830 --> 00:22:39,409  
working through the kings of the final

602  
00:22:43,509 --> 00:22:41,840  
manuscript it takes a long time once you

603  
00:22:45,339 --> 00:22:43,519  
turn the manuscript in and that'll be

604  
00:22:47,589 --> 00:22:45,349  
I'll turn it in and September and how

605  
00:22:49,269 --> 00:22:47,599  
they come out sometime in 2010 but I

606  
00:22:50,680 --> 00:22:49,279  
will be I mean watch the blog I'll be

607  
00:22:53,109 --> 00:22:50,690  
bubbly basically pushing it on the blog

608  
00:22:54,700 --> 00:22:53,119  
as we get closer thank you very much for

609  
00:22:56,289 --> 00:22:54,710  
that Jennifer it's wonderful to hear

610  
00:22:58,570 --> 00:22:56,299  
about the progress of your book that I'm

611  
00:23:01,149 --> 00:22:58,580  
certain people be looking out for and I

612  
00:23:02,950 --> 00:23:01,159  
really enjoy your blog site at cocktail

613  
00:23:05,019 --> 00:23:02,960

party physics and I'm really very

614

00:23:07,269 --> 00:23:05,029

envious of Richard Saunders he'll be

615

00:23:08,349 --> 00:23:07,279

hearing you present at ten seven telling

616

00:23:11,259 --> 00:23:08,359

us all about the science and

617

00:23:13,359 --> 00:23:11,269

entertainment exchange well thank you

618

00:23:15,159 --> 00:23:13,369

Kylie and thank you to Jennifer for that

619

00:23:17,259 --> 00:23:15,169

wonderful interview alright well thanks

620

00:23:32,900 --> 00:23:17,269

for having me I appreciate it bye now

621

00:23:37,380 --> 00:23:35,820

hi I'm Jason and I'm Andrew from the

622

00:23:40,170 --> 00:23:37,390

nonsense podcast bringing you a

623

00:23:41,970 --> 00:23:40,180

skeptical overview of news religion and

624

00:23:43,770 --> 00:23:41,980

all forms of pseudoscience we're

625

00:23:45,300 --> 00:23:43,780

defending science and reason against the

626  
00:23:47,130 --> 00:23:45,310  
onslaught of medical and spiritual

627  
00:23:49,200 --> 00:23:47,140  
nonsense all week we are busy

628  
00:23:51,870 --> 00:23:49,210  
researching and debunking pseudoscience

629  
00:23:53,760 --> 00:23:51,880  
but on the seventh day we listened to

630  
00:23:56,940 --> 00:23:53,770  
the skeptic zone check us out at

631  
00:24:04,410 --> 00:23:56,950  
nonsense podcast libsyn com or search

632  
00:24:07,170 --> 00:24:04,420  
for the nonsense podcast on iTunes now

633  
00:24:10,580 --> 00:24:07,180  
it's time for dr. Rachel reports with

634  
00:24:15,610 --> 00:24:13,039  
hello everyone and welcome to dr. Reggie

635  
00:24:18,350 --> 00:24:15,620  
reports a bumper episode this week

636  
00:24:19,730 --> 00:24:18,360  
homeopathy gets a slap down and the

637  
00:24:22,070 --> 00:24:19,740  
death of a toddler under tragic

638  
00:24:25,370 --> 00:24:22,080

circumstances at an alternative medicine

639

00:24:27,470 --> 00:24:25,380

clinic but we kick off with some good

640

00:24:30,560 --> 00:24:27,480

news about consumer protection in

641

00:24:32,539 --> 00:24:30,570

Australia this is an alternative

642

00:24:34,250 --> 00:24:32,549

medicine smackdown which comes to you

643

00:24:37,039 --> 00:24:34,260

courtesy of a skeptical colleague

644

00:24:39,560 --> 00:24:37,049

Michael who submitted a complaint about

645

00:24:42,529 --> 00:24:39,570

a homeopathy website to our government

646

00:24:45,380 --> 00:24:42,539

regulator several months ago this

647

00:24:47,360 --> 00:24:45,390

website called arnica montana was

648

00:24:50,990 --> 00:24:47,370

spruiking all manner of dubious products

649

00:24:53,090 --> 00:24:51,000

and making equally dubious claims the

650

00:24:55,250 --> 00:24:53,100

company has websites in the UK and

651

00:24:58,070 --> 00:24:55,260

Australia and sells homeopathic

652

00:25:00,710 --> 00:24:58,080

first-aid kids homeopathic remedies for

653

00:25:03,049 --> 00:25:00,720

emergencies makes claims that homeopathy

654

00:25:05,990 --> 00:25:03,059

is useful for serious health conditions

655

00:25:08,060 --> 00:25:06,000

and also toes the anti-vaccine in

656

00:25:10,370 --> 00:25:08,070

articles promoting the Australian

657

00:25:13,330 --> 00:25:10,380

vaccination network and bragging about

658

00:25:15,470 --> 00:25:13,340

refusing the whooping cough vaccine

659

00:25:17,720 --> 00:25:15,480

Michael's complains to the government

660

00:25:19,730 --> 00:25:17,730

body were extensive but essentially

661

00:25:22,279 --> 00:25:19,740

challenged dubious claims made by the

662

00:25:24,700 --> 00:25:22,289

company and this week he was advised

663

00:25:27,440 --> 00:25:24,710

that all his complaints were upheld and

664

00:25:32,149 --> 00:25:27,450

as a result the website has been ordered

665

00:25:34,010 --> 00:25:32,159

to publish an online retraction regular

666

00:25:36,649 --> 00:25:34,020

listens to the zone may remember I

667

00:25:38,930 --> 00:25:36,659

called arnica montana out back in

668

00:25:41,480 --> 00:25:38,940

February just after the victorian

669

00:25:43,370 --> 00:25:41,490

bushfires after a listener alerted me to

670

00:25:46,340 --> 00:25:43,380

a passage on their website which said

671

00:25:48,289 --> 00:25:46,350

the following in light of recent events

672

00:25:50,870 --> 00:25:48,299

in Bali and the bush fires in the

673

00:25:52,490 --> 00:25:50,880

eastern states of Australia information

674

00:25:54,590 --> 00:25:52,500

about the use of homeopathy by the

675

00:25:58,250 --> 00:25:54,600

ordinary person is knowledge that should

676  
00:26:01,220 --> 00:25:58,260  
be shared in fact this particular claim

677  
00:26:04,399 --> 00:26:01,230  
was disputed by Michael and upheld by

678  
00:26:05,630 --> 00:26:04,409  
the panel they also upheld complaints

679  
00:26:08,269 --> 00:26:05,640  
pertaining to breaches of the

680  
00:26:10,940 --> 00:26:08,279  
advertising code including that the

681  
00:26:12,560 --> 00:26:10,950  
advertising or website unlawfully made

682  
00:26:14,960 --> 00:26:12,570  
claims that the products could have

683  
00:26:17,440 --> 00:26:14,970  
therapeutic benefits for serious health

684  
00:26:20,389 --> 00:26:17,450  
conditions including cancer childbirth

685  
00:26:23,510 --> 00:26:20,399  
emergencies the severe burns previously

686  
00:26:24,200 --> 00:26:23,520  
referred to scald traumatic shock bird

687  
00:26:27,890 --> 00:26:24,210  
flu

688  
00:26:31,160 --> 00:26:27,900

sars postpartum hemorrhage depression

689

00:26:33,050 --> 00:26:31,170

brain tumors convulsions macular

690

00:26:35,750 --> 00:26:33,060

degeneration and other serious

691

00:26:37,640 --> 00:26:35,760

conditions the report from the

692

00:26:39,680 --> 00:26:37,650

government panel went on to say that

693

00:26:41,960 --> 00:26:39,690

they found claims made in the

694

00:26:43,850 --> 00:26:41,970

advertisement were misleading were

695

00:26:46,790 --> 00:26:43,860

likely to lead to consumers self

696

00:26:50,320 --> 00:26:46,800

diagnosing and inappropriately treating

697

00:26:52,730 --> 00:26:50,330

serious diseases and aroused unrealistic

698

00:26:56,510 --> 00:26:52,740

expectations of the effectiveness of the

699

00:26:58,760 --> 00:26:56,520

products the advertiser was given an

700

00:27:01,220 --> 00:26:58,770

opportunity to respond to the criticisms

701  
00:27:03,500 --> 00:27:01,230  
and rejected the allegation that there

702  
00:27:05,930 --> 00:27:03,510  
was quote anything deceptive or

703  
00:27:09,260 --> 00:27:05,940  
misleading unquote in the advertisement

704  
00:27:12,260 --> 00:27:09,270  
or website the advertiser claimed that

705  
00:27:14,480 --> 00:27:12,270  
the website was quote intended to be an

706  
00:27:16,550 --> 00:27:14,490  
information website to educate the

707  
00:27:20,300 --> 00:27:16,560  
public about the use of homeopathic

708  
00:27:22,010 --> 00:27:20,310  
remedies but the panel found that the

709  
00:27:23,930 --> 00:27:22,020  
website breached sections of the

710  
00:27:26,800 --> 00:27:23,940  
advertising code which prohibit

711  
00:27:29,540 --> 00:27:26,810  
advertisements for products that quote

712  
00:27:32,390 --> 00:27:29,550  
abuse the trust or exploit the knowledge

713  
00:27:35,240 --> 00:27:32,400

of consumers and was likely to arouse

714

00:27:39,890 --> 00:27:35,250

unwarranted and unrealistic expectations

715

00:27:42,500 --> 00:27:39,900

of product effectiveness the panel also

716

00:27:44,240 --> 00:27:42,510

cited the fact that no persuasive

717

00:27:46,340 --> 00:27:44,250

evidence was provided that the

718

00:27:47,990 --> 00:27:46,350

advertised products could have benefits

719

00:27:52,070 --> 00:27:48,000

in relation to the wide range of

720

00:27:54,580 --> 00:27:52,080

conditions referred to in response to

721

00:27:57,740 --> 00:27:54,590

this the advertiser said that quote

722

00:28:00,200 --> 00:27:57,750

controlled trials cannot be used for

723

00:28:04,310 --> 00:28:00,210

homeopathy but there is a mass of

724

00:28:06,800 --> 00:28:04,320

unpublished evidence indeed the website

725

00:28:09,460 --> 00:28:06,810

is littered with testimonials but the

726

00:28:11,900 --> 00:28:09,470

panel also called these into question

727

00:28:14,390 --> 00:28:11,910

because according to the advertising

728

00:28:17,570 --> 00:28:14,400

code testimonials quote must be

729

00:28:21,920 --> 00:28:17,580

documented genuine not misleading and

730

00:28:24,620 --> 00:28:21,930

illustrate typical cases only as an

731

00:28:26,720 --> 00:28:24,630

example of a breach of this section the

732

00:28:31,160 --> 00:28:26,730

panel used this testimonial as an

733

00:28:34,610 --> 00:28:31,170

example quote the calendula cream I make

734

00:28:37,610 --> 00:28:34,620

is specific to cancer skin keratosis and

735

00:28:40,940 --> 00:28:37,620

I have successfully treated many of

736

00:28:43,160 --> 00:28:40,950

and established melanomas by using the

737

00:28:48,080 --> 00:28:43,170

sage cream at night and the calendula

738

00:28:51,049 --> 00:28:48,090

during the day overall Michael received

739

00:28:53,480 --> 00:28:51,059

nine pages of Correspondence and I waded

740

00:28:56,060 --> 00:28:53,490

through all of it which I'm very glad i

741

00:28:59,990 --> 00:28:56,070

did because buried deep in the text I

742

00:29:01,880 --> 00:29:00,000

came across this the panel noted that

743

00:29:05,420 --> 00:29:01,890

the advertisement or website breached

744

00:29:08,360 --> 00:29:05,430

section 4 part 5 of the code which

745

00:29:11,390 --> 00:29:08,370

states by implying that other

746

00:29:15,740 --> 00:29:11,400

therapeutic goods namely vaccines and

747

00:29:18,799 --> 00:29:15,750

sunscreens could be harmful I can only

748

00:29:21,799 --> 00:29:18,809

assume that this is based on references

749

00:29:23,930 --> 00:29:21,809

on embedded blog posts and new sections

750

00:29:26,450 --> 00:29:23,940

on the website that refer to the

751

00:29:29,270 --> 00:29:26,460

Australian vaccination Network Merrill

752

00:29:32,600 --> 00:29:29,280

dory and include misinformation about

753

00:29:35,060 --> 00:29:32,610

vaccinations this is indeed a very

754

00:29:36,530 --> 00:29:35,070

interesting piece of legislation and one

755

00:29:41,570 --> 00:29:36,540

that I will file away for future

756

00:29:44,120 --> 00:29:41,580

reference also interestingly the panel

757

00:29:47,419 --> 00:29:44,130

deemed the entire arnica montana website

758

00:29:49,880 --> 00:29:47,429

to be an advertisement according to the

759

00:29:53,720 --> 00:29:49,890

code and advertisement is defined as

760

00:29:56,630 --> 00:29:53,730

quote to include any statement pictorial

761

00:29:58,910 --> 00:29:56,640

representation or design however made

762

00:30:02,030 --> 00:29:58,920

that is intended whether directly or

763

00:30:06,110 --> 00:30:02,040

indirectly to promote the use or supply

764

00:30:08,450 --> 00:30:06,120

of goods since the website offered a

765

00:30:10,130 --> 00:30:08,460

range of products for sale the panel was

766

00:30:14,060 --> 00:30:10,140

satisfied it constituted an

767

00:30:15,799 --> 00:30:14,070

advertisement for therapeutic goods also

768

00:30:18,530 --> 00:30:15,809

interestingly is that the complaint

769

00:30:21,200 --> 00:30:18,540

summary cites the subject matter of the

770

00:30:24,080 --> 00:30:21,210

complaint as a website advertisement and

771

00:30:26,990 --> 00:30:24,090

the sanctions as withdrawal of

772

00:30:30,680 --> 00:30:27,000

advertisement thus stating that the

773

00:30:33,350 --> 00:30:30,690

entire website is to be withdrawn but if

774

00:30:36,560 --> 00:30:33,360

you go to the website now at arnica

775

00:30:39,169 --> 00:30:36,570

montana Comte you you will find the

776

00:30:41,240 --> 00:30:39,179

published retraction for sure but the

777

00:30:44,660 --> 00:30:41,250

remainder of the website still functions

778

00:30:47,690 --> 00:30:44,670

as normal I wonder when and if we will

779

00:30:51,759 --> 00:30:47,700

see the entire website removed not a

780

00:30:54,589 --> 00:30:51,769

very happy homeopathy week for some

781

00:30:56,899 --> 00:30:54,599

next is the tragic story of the death of

782

00:31:00,619 --> 00:30:56,909

a toddler who was crushed by a massage

783

00:31:02,899 --> 00:31:00,629

table in Adelaide what makes this story

784

00:31:05,719 --> 00:31:02,909

even more sad is that the death occurred

785

00:31:07,669 --> 00:31:05,729

at the favero clinic and Adelaide which

786

00:31:10,009 --> 00:31:07,679

is the home of Elvira brunt an

787

00:31:13,789 --> 00:31:10,019

alternative therapists who claims to be

788

00:31:16,669 --> 00:31:13,799

able to cure cancer with massage more on

789

00:31:18,919 --> 00:31:16,679

this in a moment but reports surrounding

790

00:31:21,289 --> 00:31:18,929

the death say the 18 month old girl was

791

00:31:24,070 --> 00:31:21,299

crushed to death by a massage table

792

00:31:27,830 --> 00:31:24,080

while her mother was being treated a

793

00:31:30,619 --> 00:31:27,840

police inspector said quote a young 18

794

00:31:32,719 --> 00:31:30,629

month old child a girl has died as a

795

00:31:35,629 --> 00:31:32,729

result of being trapped in a component

796

00:31:38,769 --> 00:31:35,639

of a massage table the child was under

797

00:31:41,029 --> 00:31:38,779

the table when it started to be lowered

798

00:31:43,580 --> 00:31:41,039

regular listeners might remember the

799

00:31:45,889 --> 00:31:43,590

favela alternative medicine clinic from

800

00:31:47,960 --> 00:31:45,899

a previous doctor a chi when I mentioned

801  
00:31:50,269 --> 00:31:47,970  
that she had advised the father of a

802  
00:31:51,919 --> 00:31:50,279  
young girl with leukemia to feed her

803  
00:31:55,430 --> 00:31:51,929  
Kentucky Fried Chicken to get her

804  
00:31:57,469 --> 00:31:55,440  
kidneys functioning again a current

805  
00:31:59,749 --> 00:31:57,479  
parliamentary inquiry in South Australia

806  
00:32:02,239 --> 00:31:59,759  
had received several submissions from

807  
00:32:06,200 --> 00:32:02,249  
members of the public about the GBS

808  
00:32:08,330 --> 00:32:06,210  
practices of ms Brandt unfortunately the

809  
00:32:11,359 --> 00:32:08,340  
parliamentary inquiry has yet to be

810  
00:32:14,599 --> 00:32:11,369  
completed so Elvira brunt is still

811  
00:32:17,210 --> 00:32:14,609  
practicing on the same day that the

812  
00:32:19,190 --> 00:32:17,220  
child died the inquiry into bogus

813  
00:32:22,070 --> 00:32:19,200

unregistered and D registered health

814

00:32:24,560 --> 00:32:22,080

practitioners named Elvira brunt as a

815

00:32:26,479 --> 00:32:24,570

person of interest for allegedly

816

00:32:29,539 --> 00:32:26,489

claiming she could cure cancer through

817

00:32:32,509 --> 00:32:29,549

abdominal massage for telling patients

818

00:32:34,759 --> 00:32:32,519

to stop normal treatment and requiring

819

00:32:38,299 --> 00:32:34,769

cash payments for services and not

820

00:32:40,339 --> 00:32:38,309

providing receipts other alternative

821

00:32:43,849 --> 00:32:40,349

therapists named as part of the inquiry

822

00:32:46,430 --> 00:32:43,859

were Elizabeth gold way for allegedly

823

00:32:48,049 --> 00:32:46,440

saying she can cure cancer charging

824

00:32:50,799 --> 00:32:48,059

thousands of dollars for treatment and

825

00:32:54,169 --> 00:32:50,809

not providing receipts to patients

826

00:32:55,820 --> 00:32:54,179

Monica milker was also named for

827

00:32:59,269 --> 00:32:55,830

allegedly claiming she could cure cancer

828

00:33:02,389 --> 00:32:59,279

with injections to kill the worms that

829

00:33:04,760 --> 00:33:02,399

were causing the problem and love a mere

830

00:33:07,490 --> 00:33:04,770

batelco who allegedly

831

00:33:10,100 --> 00:33:07,500

jected a patient to vaginal blowing with

832

00:33:14,300 --> 00:33:10,110

an ozone therapy machine saying it

833

00:33:16,280 --> 00:33:14,310

offered a 50-percent cure for cancer the

834

00:33:19,310 --> 00:33:16,290

member of parliament ian hunter who

835

00:33:21,160 --> 00:33:19,320

tabled the report said quote while some

836

00:33:23,210 --> 00:33:21,170

practitioners may be delusional

837

00:33:25,700 --> 00:33:23,220

convinced that they are able to cure

838

00:33:27,590 --> 00:33:25,710

serious medical conditions the evidence

839

00:33:29,930 --> 00:33:27,600

presented to the committee suggested

840

00:33:34,040 --> 00:33:29,940

that others are driven by greed and in

841

00:33:36,560 --> 00:33:34,050

some cases sexual gratification he

842

00:33:38,720 --> 00:33:36,570

continued the committee heard shocking

843

00:33:40,580 --> 00:33:38,730

stories from people who said their loved

844

00:33:43,010 --> 00:33:40,590

ones had been exploited when they were

845

00:33:45,560 --> 00:33:43,020

at their most vulnerable who were given

846

00:33:48,410 --> 00:33:45,570

false hope and who wasted thousands of

847

00:33:50,120 --> 00:33:48,420

dollars on bogus treatments he said the

848

00:33:52,430 --> 00:33:50,130

committee stated that while most

849

00:33:54,830 --> 00:33:52,440

practitioners were ethical proper

850

00:33:58,340 --> 00:33:54,840

regulation monitoring an exposure of

851  
00:34:00,590 --> 00:33:58,350  
unethical behavior was needed although

852  
00:34:02,630 --> 00:34:00,600  
it seems likely that Elvira brunt will

853  
00:34:04,940 --> 00:34:02,640  
be banned from practicing eventually it

854  
00:34:09,710 --> 00:34:04,950  
will be too little too late for many

855  
00:34:12,110 --> 00:34:09,720  
including now an 18 month old girl to

856  
00:34:14,930 --> 00:34:12,120  
find the links for today's stories head

857  
00:34:17,720 --> 00:34:14,940  
to skeptics own TV and follow the links

858  
00:34:20,300 --> 00:34:17,730  
to the Zoners blog you can also check

859  
00:34:24,110 --> 00:34:20,310  
out my other blog at skeptics book calm

860  
00:34:34,670 --> 00:34:24,120  
and until next time this has been dr. HG

861  
00:34:40,980 --> 00:34:38,790  
so that's why you can't eat her I was

862  
00:34:41,940 --> 00:34:40,990  
just talking to the student till now

863  
00:34:44,850 --> 00:34:41,950

look I'm supposed to tell you about

864

00:34:48,570 --> 00:34:44,860

something the cosmic Tea Party a new

865

00:34:49,920 --> 00:34:48,580

science podcast podcast day who's it at

866

00:34:52,680 --> 00:34:49,930

any rate it's about science and

867

00:34:56,010 --> 00:34:52,690

mathematics sounds rather dull oh hang

868

00:34:57,630 --> 00:34:56,020

on I open it it says here not done so

869

00:35:01,350 --> 00:34:57,640

there you have it the cosmic Tea Party

870

00:35:07,410 --> 00:35:01,360

podcast www cosmic Tea Party or or

871

00:35:10,440 --> 00:35:07,420

search for them on itunes join us now

872

00:35:17,970 --> 00:35:10,450

for drinking skeptically in the think

873

00:35:23,820 --> 00:35:17,980

tank well welcome to the thing thank

874

00:35:25,440 --> 00:35:23,830

everybody cheers oh this is going to

875

00:35:28,500 --> 00:35:25,450

take a while this is what's a glasses

876

00:35:31,050 --> 00:35:28,510

here there's lots of alcohol is thank

877

00:35:34,410 --> 00:35:31,060

you petitions can work out how many

878

00:35:36,120 --> 00:35:34,420

combinations I look we have to thank

879

00:35:38,070 --> 00:35:36,130

sincerely we have to thank listener

880

00:35:40,200 --> 00:35:38,080

Darren Snodgrass who actually sent us

881

00:35:42,390 --> 00:35:40,210

money for a round of drinks in fact more

882

00:35:45,750 --> 00:35:42,400

than enough for a round of drinks Darren

883

00:35:51,690 --> 00:35:45,760

well I approve of this is more guarantee

884

00:35:54,360 --> 00:35:51,700

5,000 of you a week a week a week if

885

00:35:55,290 --> 00:35:54,370

you're ever in Sydney down please join

886

00:35:58,320 --> 00:35:55,300

us for the think tank there's

887

00:36:03,500 --> 00:35:58,330

marvelously generous of you and will be

888

00:36:06,360 --> 00:36:03,510

thinking to your health oh that's good

889

00:36:09,390 --> 00:36:06,370

that's very nice well welcome to the

890

00:36:11,190 --> 00:36:09,400

think tank now we have our regular line

891

00:36:14,160 --> 00:36:11,200

up with the think tank that tonight more

892

00:36:16,410 --> 00:36:14,170

or less dr. H E hello Richard hello dr.

893

00:36:18,510 --> 00:36:16,420

Reggie thank you for dr. Reggie reports

894

00:36:21,030 --> 00:36:18,520

as ever yeah welcome I know you get a

895

00:36:23,130 --> 00:36:21,040

lot of fans now I do apparently you're

896

00:36:25,530 --> 00:36:23,140

doing yeah and I'm getting busier and

897

00:36:27,420 --> 00:36:25,540

busier as a matter of fact you are you

898

00:36:29,370 --> 00:36:27,430

poor thing her up half the night working

899

00:36:31,650 --> 00:36:29,380

on this day I'm actually yeah but it's

900

00:36:33,120 --> 00:36:31,660

worth it and easily and somebody else is

901  
00:36:35,630 --> 00:36:33,130  
up half the night I don't know what he's

902  
00:36:39,240 --> 00:36:35,640  
doing its Dave the happy singer

903  
00:36:42,990 --> 00:36:39,250  
a lot of time cuz I'm in their bank is

904  
00:36:45,630 --> 00:36:43,000  
now is it I thought those owners tank is

905  
00:36:47,210 --> 00:36:45,640  
now the alcohol is involved other people

906  
00:36:50,820 --> 00:36:47,220  
listen to this segment of tankers their

907  
00:36:53,940 --> 00:36:50,830  
function tankers no I'll buy that and we

908  
00:36:56,280 --> 00:36:53,950  
have visiting us once again its job been

909  
00:36:57,750 --> 00:36:56,290  
home oh hello Joe hi Richard thank you

910  
00:37:00,120 --> 00:36:57,760  
for your contribution last week's

911  
00:37:02,730 --> 00:37:00,130  
episode where you read your report from

912  
00:37:05,130 --> 00:37:02,740  
mind-body wallet last week I've lost

913  
00:37:06,900 --> 00:37:05,140

track of time already come a little bit

914

00:37:09,210 --> 00:37:06,910

closer to a little bit closer we also

915

00:37:10,500 --> 00:37:09,220

have joining us tonight um chief

916

00:37:12,599 --> 00:37:10,510

investigator from the Australian

917

00:37:15,270 --> 00:37:12,609

skeptics however it seems Ian Bryce

918

00:37:17,190 --> 00:37:15,280

hello great that you could come along

919

00:37:19,109 --> 00:37:17,200

and I'm have it took chat to you in a

920

00:37:21,900 --> 00:37:19,119

moment being a chief investigator is an

921

00:37:23,940 --> 00:37:21,910

interesting job very interesting and

922

00:37:26,670 --> 00:37:23,950

somebody's got their phone on I'll Dave

923

00:37:28,260 --> 00:37:26,680

the happy singer it's going off as going

924

00:37:30,120 --> 00:37:28,270

off I was switching it off now it's gone

925

00:37:31,560 --> 00:37:30,130

that annoys your head was Dave the happy

926

00:37:34,109 --> 00:37:31,570

singer switching off his phone as I

927

00:37:36,570 --> 00:37:34,119

reach for mine to switch it off to just

928

00:37:39,510 --> 00:37:36,580

so it doesn't go up and last but

929

00:37:41,670 --> 00:37:39,520

certainly not least we have Diane hello

930

00:37:43,560 --> 00:37:41,680

Diane I are you Richard I'm very well

931

00:37:47,220 --> 00:37:43,570

good to see you again thank you good to

932

00:37:50,280 --> 00:37:47,230

see you too thank you I Diane of course

933

00:37:52,260 --> 00:37:50,290

joined with me a few weeks ago now when

934

00:37:55,160 --> 00:37:52,270

we went to the parents babies and

935

00:37:57,000 --> 00:37:55,170

pregnancy Expo yes and we uncovered

936

00:37:59,820 --> 00:37:57,010

chiropractors saying some pretty silly

937

00:38:03,840 --> 00:37:59,830

things that's right we did indeed all

938

00:38:05,370 --> 00:38:03,850

right now Darren who so kindly shouted

939

00:38:08,370 --> 00:38:05,380

us this wonderful round of drinks we

940

00:38:11,040 --> 00:38:08,380

have on the table before it would like

941

00:38:13,550 --> 00:38:11,050

to know what are some of the strangest

942

00:38:15,300 --> 00:38:13,560

things that we've come across in our

943

00:38:16,470 --> 00:38:15,310

investigations are skeptics and I

944

00:38:18,540 --> 00:38:16,480

thought Ian this might be a good

945

00:38:20,970 --> 00:38:18,550

question for you what are some of the

946

00:38:22,520 --> 00:38:20,980

stranger things in the your years of

947

00:38:24,810 --> 00:38:22,530

investigation that you've come across

948

00:38:27,300 --> 00:38:24,820

okay well we have lots of boring things

949

00:38:29,900 --> 00:38:27,310

like people being able to tell your

950

00:38:32,730 --> 00:38:29,910

personality by holding your jewelry and

951  
00:38:35,490 --> 00:38:32,740  
for tell your future and read your tea

952  
00:38:37,410 --> 00:38:35,500  
leaves and predict lotto numbers but

953  
00:38:44,099 --> 00:38:37,420  
possibly the one that stands out in my

954  
00:38:45,720 --> 00:38:44,109  
mind is the guy who talks to dragons yes

955  
00:38:49,100 --> 00:38:45,730  
he used to live around sydney and he

956  
00:38:51,530 --> 00:38:49,110  
believes that the limestone formations

957  
00:38:53,420 --> 00:38:51,540  
was a sit there in the past by dragons

958  
00:38:55,070 --> 00:38:53,430  
and some of them are imprints of dragons

959  
00:38:57,710 --> 00:38:55,080  
who he might have seen some tessellated

960  
00:38:59,870 --> 00:38:57,720  
pavements this is some natural rocks

961  
00:39:01,700 --> 00:38:59,880  
with a crisscross pattern on that occurs

962  
00:39:04,070 --> 00:39:01,710  
sometimes around Australia and he says

963  
00:39:07,070 --> 00:39:04,080

their imprints of the scales on dragons

964

00:39:10,280 --> 00:39:07,080

where dragons died there thousands of

965

00:39:14,020 --> 00:39:10,290

years ago it's amazing gales scales from

966

00:39:19,010 --> 00:39:14,030

the skin but also he sent me a little

967

00:39:20,630 --> 00:39:19,020

bag of looks to me like Sam stone but

968

00:39:22,430 --> 00:39:20,640

he's had it analyzed in other places and

969

00:39:27,410 --> 00:39:22,440

it's his opinion that this is dragon

970

00:39:29,450 --> 00:39:27,420

poop that's one of my treasured

971

00:39:31,790 --> 00:39:29,460

possessions for the skeptics museum is

972

00:39:33,320 --> 00:39:31,800

this claim to bag of dragon poop so I

973

00:39:35,150 --> 00:39:33,330

think that's probably the weirdest so

974

00:39:37,790 --> 00:39:35,160

what are you tested against and to know

975

00:39:39,950 --> 00:39:37,800

it's dragon poke okay don't you have to

976  
00:39:41,780 --> 00:39:39,960  
have like it you know compound to test

977  
00:39:43,400 --> 00:39:41,790  
it against to compare it to well that

978  
00:39:45,830 --> 00:39:43,410  
would be the ideal way but you can at

979  
00:39:48,260 --> 00:39:45,840  
least test it against an assisting

980  
00:39:50,420 --> 00:39:48,270  
sandstone right and if you find its

981  
00:39:56,540 --> 00:39:50,430  
identical and it sounds probably

982  
00:39:58,010 --> 00:39:56,550  
sufficient for skeptics anyway hi could

983  
00:39:59,480 --> 00:39:58,020  
talk two dragons once you know on the

984  
00:40:03,650 --> 00:39:59,490  
telephone what's called the hotline

985  
00:40:07,070 --> 00:40:03,660  
anyway disguise this guy claimed didn't

986  
00:40:08,960 --> 00:40:07,080  
get her go see mom if I'm much easier to

987  
00:40:12,890 --> 00:40:08,970  
talk to dragons up to him by being

988  
00:40:16,220 --> 00:40:12,900

certain chemical substance so make sushi

989

00:40:18,800 --> 00:40:16,230

today and anyone can come to dragons

990

00:40:22,640 --> 00:40:18,810

after that so I'm talking to drag I like

991

00:40:24,110 --> 00:40:22,650

that in anything else come to mind well

992

00:40:27,080 --> 00:40:24,120

we had a guy in America trying to

993

00:40:29,960 --> 00:40:27,090

predict lotto numbers but he claims to

994

00:40:32,210 --> 00:40:29,970

be able to pick one or two numbers out

995

00:40:33,980 --> 00:40:32,220

of a long digit a long sequence of

996

00:40:36,860 --> 00:40:33,990

numbers and if he get me get one or two

997

00:40:38,600 --> 00:40:36,870

right out of maybe that the ten digits

998

00:40:40,010 --> 00:40:38,610

that occur in the typical lotto results

999

00:40:43,760 --> 00:40:40,020

and he wants to claim a hundred thousand

1000

00:40:46,370 --> 00:40:43,770

dollar prize you think he wouldn't have

1001  
00:40:47,990 --> 00:40:46,380  
to work so you wouldn't have see that's

1002  
00:40:49,930 --> 00:40:48,000  
right if he wouldn't have to but it's a

1003  
00:40:52,280 --> 00:40:49,940  
very interesting question because um I

1004  
00:40:54,200 --> 00:40:52,290  
remember I gave a talk once and somebody

1005  
00:40:56,300 --> 00:40:54,210  
asked me what was the strangest thing

1006  
00:40:58,040 --> 00:40:56,310  
I've ever come across and

1007  
00:41:00,110 --> 00:40:58,050  
it really it depends on how you look at

1008  
00:41:02,360 --> 00:41:00,120  
it they're all pretty strange any any

1009  
00:41:04,580 --> 00:41:02,370  
claim that defies the laws of physics as

1010  
00:41:06,650 --> 00:41:04,590  
we know it is it's going to be a strange

1011  
00:41:08,660 --> 00:41:06,660  
claim to begin with but a lot of people

1012  
00:41:10,310 --> 00:41:08,670  
think that I that when skeptics go along

1013  
00:41:12,830 --> 00:41:10,320

to investigations are and have an

1014

00:41:15,830 --> 00:41:12,840

amazing adventures like like Fox Mulder

1015

00:41:17,180 --> 00:41:15,840

or Indiana Jones you know doing but you

1016

00:41:19,610 --> 00:41:17,190

know you normally turn up to somewhere

1017

00:41:21,590 --> 00:41:19,620

nothing happens honestly that's the

1018

00:41:24,890 --> 00:41:21,600

first anti-climax are disappointing

1019

00:41:26,270 --> 00:41:24,900

except for mind body wallet hmm where

1020

00:41:27,740 --> 00:41:26,280

there's lots of we're everywhere but

1021

00:41:30,290 --> 00:41:27,750

when you're going on an investigation

1022

00:41:33,440 --> 00:41:30,300

when you see this lan it's mostly an

1023

00:41:35,690 --> 00:41:33,450

anti-climax yes indeed we've tested lots

1024

00:41:38,990 --> 00:41:35,700

of so-called people with paranormal

1025

00:41:40,400 --> 00:41:39,000

powers and it's quite disappointing when

1026

00:41:41,930 --> 00:41:40,410

we get a result that's totally in

1027

00:41:44,960 --> 00:41:41,940

accordance with changed bit of an

1028

00:41:46,790 --> 00:41:44,970

anti-climax yeah yeah remember Richard

1029

00:41:50,060 --> 00:41:46,800

last year we went to look at the Holy

1030

00:41:53,360 --> 00:41:50,070

post at could you beach yeah and we

1031

00:41:55,970 --> 00:41:53,370

didn't see anything well it me well the

1032

00:41:57,770 --> 00:41:55,980

Holy post which was peridot Leo was like

1033

00:41:59,660 --> 00:41:57,780

a human figure when the shadow of the

1034

00:42:01,970 --> 00:41:59,670

post was just in the right way and used

1035

00:42:03,620 --> 00:42:01,980

to dinner it was actually it's actually

1036

00:42:05,810 --> 00:42:03,630

gone now because there are trees there

1037

00:42:07,670 --> 00:42:05,820

or a bush or defense has been I was

1038

00:42:10,220 --> 00:42:07,680

equally disappointed I even sorry I

1039

00:42:11,510 --> 00:42:10,230

didn't say anything holy but anyway it

1040

00:42:13,580 --> 00:42:11,520

was a beautiful day we went for a swim

1041

00:42:14,870 --> 00:42:13,590

afterwards we did we did it wasn't olive

1042

00:42:16,550 --> 00:42:14,880

and that's all that's on an earlier

1043

00:42:20,840 --> 00:42:16,560

episode of the skeptic zone and you me

1044

00:42:23,360 --> 00:42:20,850

and Steve Robinson yeah so yeah there

1045

00:42:24,470 --> 00:42:23,370

are in to answer your questions I I mean

1046

00:42:26,150 --> 00:42:24,480

I can't think of anything that

1047

00:42:27,380 --> 00:42:26,160

particularly stands out as strange I

1048

00:42:29,480 --> 00:42:27,390

mean there's a lot of strange stuff out

1049

00:42:30,560 --> 00:42:29,490

there and again if you want to find

1050

00:42:33,110 --> 00:42:30,570

strange claims go to the

1051  
00:42:34,490 --> 00:42:33,120  
mind-body-spirit first time you can walk

1052  
00:42:37,070 --> 00:42:34,500  
ten feet and you can find a strange

1053  
00:42:38,450 --> 00:42:37,080  
claim no ghosts though I guess it's just

1054  
00:42:40,220 --> 00:42:38,460  
because they're the ones we don't see

1055  
00:42:42,860 --> 00:42:40,230  
very much of it so many of the strange

1056  
00:42:45,410 --> 00:42:42,870  
ones are just SI popularized that yeah

1057  
00:42:46,970 --> 00:42:45,420  
we're aware of them yeah yeah I mean

1058  
00:42:48,590 --> 00:42:46,980  
dowsing is pretty strange when you think

1059  
00:42:51,200 --> 00:42:48,600  
about it but it's everyone sort of knows

1060  
00:42:52,730 --> 00:42:51,210  
about it I guess or as Darren said

1061  
00:42:54,380 --> 00:42:52,740  
breath Arians he was wondering about

1062  
00:42:57,650 --> 00:42:54,390  
that but I haven't investigated them

1063  
00:43:00,350 --> 00:42:57,660

personally have um no I've seen that

1064

00:43:03,500 --> 00:43:00,360

some television shows but not personally

1065

00:43:06,170 --> 00:43:03,510

but I have investigated quite a few

1066

00:43:07,670 --> 00:43:06,180

alternative astronomical configurations

1067

00:43:09,040 --> 00:43:07,680

that people put in particularly retired

1068

00:43:11,410 --> 00:43:09,050

engineers

1069

00:43:12,910 --> 00:43:11,420

which I'm just about one I didn't have a

1070

00:43:15,730 --> 00:43:12,920

penchant for putting in their own theory

1071

00:43:18,040 --> 00:43:15,740

of what at the nature of space-time oh

1072

00:43:21,070 --> 00:43:18,050

there's a couple of bad signs when they

1073

00:43:22,750 --> 00:43:21,080

start off saying i find the traditional

1074

00:43:24,250 --> 00:43:22,760

definitions of space and time to be

1075

00:43:28,870 --> 00:43:24,260

inadequate therefore i will define my

1076

00:43:31,150 --> 00:43:28,880

own it's a bad sign when do I center

1077

00:43:32,740 --> 00:43:31,160

Center diagram showing his design for

1078

00:43:36,970 --> 00:43:32,750

the solar system which included the

1079

00:43:38,980 --> 00:43:36,980

stars passing in front of the moon right

1080

00:43:42,400 --> 00:43:38,990

he had sent this to a number of

1081

00:43:44,500 --> 00:43:42,410

government agencies claiming mr. B's

1082

00:43:46,630 --> 00:43:44,510

theory and the CSIRO read back very

1083

00:43:49,240 --> 00:43:46,640

carefully and earnestly apparently a

1084

00:43:50,860 --> 00:43:49,250

scientist there felt sorry for even so

1085

00:43:53,230 --> 00:43:50,870

that if he would go outside next to look

1086

00:43:55,870 --> 00:43:53,240

at the Stars one night you'll see that

1087

00:43:57,730 --> 00:43:55,880

they're quite that much brighter than

1088

00:43:59,650 --> 00:43:57,740

the moon and actually pass behind the

1089

00:44:02,170 --> 00:43:59,660

moon and heading consider doing an

1090

00:44:03,970 --> 00:44:02,180

actual tests of his own theory yeah and

1091

00:44:10,750 --> 00:44:03,980

this he wasn't put off at all he just

1092

00:44:12,580 --> 00:44:10,760

sent his on to us another guy had a free

1093

00:44:14,890 --> 00:44:12,590

energy machine I get a lot of those and

1094

00:44:16,360 --> 00:44:14,900

he had collected had written to all the

1095

00:44:17,890 --> 00:44:16,370

scientists in Australia and government

1096

00:44:20,530 --> 00:44:17,900

authorities and so forth and collected

1097

00:44:22,720 --> 00:44:20,540

all the replies including one from mark

1098

00:44:25,240 --> 00:44:22,730

Oliphant mark olifants of something like

1099

00:44:27,160 --> 00:44:25,250

I've had took the time to reply which is

1100

00:44:29,590 --> 00:44:27,170

very considerate of him said I've said

1101

00:44:32,320 --> 00:44:29,600

your claims in detail and there's

1102

00:44:34,480 --> 00:44:32,330

nothing in them at all that indicates

1103

00:44:36,760 --> 00:44:34,490

that the cold fusion as you claim it is

1104

00:44:38,890 --> 00:44:36,770

occurring so the guy put this letter

1105

00:44:40,990 --> 00:44:38,900

from Mike olifant in his CV that he

1106

00:44:44,770 --> 00:44:41,000

sends around river and says it's been

1107

00:44:46,510 --> 00:44:44,780

examined by scientists as I certain

1108

00:44:48,940 --> 00:44:46,520

people just will not be persuaded from

1109

00:44:52,180 --> 00:44:48,950

their beliefs that's true absolutely

1110

00:44:54,490 --> 00:44:52,190

true in fact that's I'm just reaching

1111

00:44:57,790 --> 00:44:54,500

over and picking up latest issue of the

1112

00:45:00,250 --> 00:44:57,800

skeptic magazine from Australia volume

1113

00:45:02,920 --> 00:45:00,260

29 number two and was there a new issue

1114

00:45:05,500 --> 00:45:02,930

the skeptic magazine Oh Richard just for

1115

00:45:09,220 --> 00:45:05,510

just by chance yes I just happen to have

1116

00:45:13,970 --> 00:45:09,230

one here too and there are sorry well

1117

00:45:18,630 --> 00:45:16,920

the content is quite smashing today mmm

1118

00:45:20,280 --> 00:45:18,640

because we've got the new laws of

1119

00:45:22,110 --> 00:45:20,290

skepticism here a lot of people over

1120

00:45:25,680 --> 00:45:22,120

Twitter especially contributed to these

1121

00:45:26,910 --> 00:45:25,690

laws of skepticism and there was one

1122

00:45:28,620 --> 00:45:26,920

here that sort of relates I'm just

1123

00:45:30,810 --> 00:45:28,630

trying to find it oh that there are many

1124

00:45:32,640 --> 00:45:30,820

here it's like the most Henry's law the

1125

00:45:34,740 --> 00:45:32,650

most common reply from a psychic to a

1126

00:45:38,550 --> 00:45:34,750

skeptical question is it doesn't work

1127

00:45:40,260 --> 00:45:38,560

like that it's excellent which is quite

1128

00:45:43,530 --> 00:45:40,270

true actually you get that all the time

1129

00:45:45,540 --> 00:45:43,540

or Ellen's Law site is another one I get

1130

00:45:50,070 --> 00:45:45,550

oh sorry yes I'm not sure you're ready

1131

00:45:52,350 --> 00:45:50,080

for the explanation 27 with two degrees

1132

00:45:57,960 --> 00:45:52,360

or more you're blocking it you feeling

1133

00:45:59,940 --> 00:45:57,970

the energy cuz you said I can't finding

1134

00:46:02,430 --> 00:45:59,950

the exact one or Edmunds loss psychics

1135

00:46:04,770 --> 00:46:02,440

will always have an out which is quite

1136

00:46:07,830 --> 00:46:04,780

true anyway that's all on page 47 of the

1137

00:46:10,610 --> 00:46:07,840

latest skeptic magazine available now

1138

00:46:15,030 --> 00:46:10,620

available now woohoo alright thank you

1139

00:46:16,260 --> 00:46:15,040

once again thank you down I hope we've

1140

00:46:17,760 --> 00:46:16,270

answered your question a little bit

1141

00:46:19,560 --> 00:46:17,770

there that we do get some interesting

1142

00:46:21,600 --> 00:46:19,570

things from time to time another writer

1143

00:46:24,330 --> 00:46:21,610

now listener writes in and asks this is

1144

00:46:26,970 --> 00:46:24,340

from Patrick hello Patrick are Chinese

1145

00:46:29,630 --> 00:46:26,980

herbs this is very interesting question

1146

00:46:34,620 --> 00:46:29,640

the way it's worded our Chinese herbs as

1147

00:46:37,170 --> 00:46:34,630

harmfully ineffective as homeopathy know

1148

00:46:39,360 --> 00:46:37,180

everyone's CD you don't have to think

1149

00:46:42,570 --> 00:46:39,370

the answer is no because there's

1150

00:46:44,850 --> 00:46:42,580

actually something in them oh yeah it's

1151  
00:46:47,040 --> 00:46:44,860  
funny how acquitted it's worded I think

1152  
00:46:49,110 --> 00:46:47,050  
you've got to you've in something like

1153  
00:46:50,430 --> 00:46:49,120  
this you could take each claim on its

1154  
00:46:53,340 --> 00:46:50,440  
merits yeah you can't just generalized

1155  
00:46:56,520 --> 00:46:53,350  
Chinese herbs in that if the in each

1156  
00:46:59,730 --> 00:46:56,530  
specific herb has got to be examined on

1157  
00:47:01,980 --> 00:46:59,740  
the basis of its purported efficacy for

1158  
00:47:04,230 --> 00:47:01,990  
whatever yeah ailment and and an

1159  
00:47:09,330 --> 00:47:04,240  
examined on the basis of the evidence

1160  
00:47:13,440 --> 00:47:09,340  
now we know homeopathy is what

1161  
00:47:16,020 --> 00:47:13,450  
mercifully evidence-free yeah you mean

1162  
00:47:17,340 --> 00:47:16,030  
every you say oh there's lots of

1163  
00:47:20,479 --> 00:47:17,350

evidence but it's all negative you look

1164

00:47:23,640 --> 00:47:20,489

shocked dying um but

1165

00:47:24,749 --> 00:47:23,650

yeah so I mean my answer is not

1166

00:47:26,489 --> 00:47:24,759

necessarily there might be something out

1167

00:47:27,959 --> 00:47:26,499

there at cost aspirants the classic

1168

00:47:29,579 --> 00:47:27,969

example you know it came out the back of

1169

00:47:32,069 --> 00:47:29,589

the tree is it's completely natural

1170

00:47:33,599 --> 00:47:32,079

figures it's a commonplace conventional

1171

00:47:35,969 --> 00:47:33,609

medicine I think what Patrick's getting

1172

00:47:38,640 --> 00:47:35,979

at here is that in the case of this

1173

00:47:40,709 --> 00:47:38,650

recent babe you had sadly died because

1174

00:47:45,239 --> 00:47:40,719

the parents were delivering homeopathy

1175

00:47:47,849 --> 00:47:45,249

24 x mark in that any was Gloria Thank

1176

00:47:50,459 --> 00:47:47,859

You Gloria yes the Gloria Thomas in that

1177

00:47:55,410 --> 00:47:50,469

case the parents were using homeopathy

1178

00:47:57,420 --> 00:47:55,420

which was harmfully ineffective you see

1179

00:47:58,789 --> 00:47:57,430

what I'm coming I'm coming from now in

1180

00:48:01,559 --> 00:47:58,799

the case is very fact that it was

1181

00:48:03,209 --> 00:48:01,569

ineffective made it hide it made it

1182

00:48:05,489 --> 00:48:03,219

hurtful because their parents were

1183

00:48:07,199 --> 00:48:05,499

relying on it yeah that's why I stand by

1184

00:48:09,779 --> 00:48:07,209

my answer that the answer is no because

1185

00:48:12,059 --> 00:48:09,789

those hopes have something in them I did

1186

00:48:14,130 --> 00:48:12,069

actually quite often contaminated with

1187

00:48:15,870 --> 00:48:14,140

heavy metals as well and not all of them

1188

00:48:17,849 --> 00:48:15,880

but some of them so they are either

1189

00:48:19,709 --> 00:48:17,859

toxic or have an effect or don't have an

1190

00:48:21,959 --> 00:48:19,719

effect but they don't come under the

1191

00:48:23,160 --> 00:48:21,969

same yeah I'm other as homeopathy they

1192

00:48:25,799 --> 00:48:23,170

are different the other thing is also

1193

00:48:30,199 --> 00:48:25,809

with them anything that has an active

1194

00:48:32,670 --> 00:48:30,209

ingredient in it combined with any other

1195

00:48:33,870 --> 00:48:32,680

medicines people so got the possibility

1196

00:48:35,839 --> 00:48:33,880

for interactions well and could

1197

00:48:38,689 --> 00:48:35,849

potentially be harmful so

1198

00:48:40,949 --> 00:48:38,699

something like ink about overall garlic

1199

00:48:43,319 --> 00:48:40,959

mixed with something like warfarin the

1200

00:48:45,870 --> 00:48:43,329

blood that can be catastrophic alee

1201

00:48:47,069 --> 00:48:45,880

harmful hmm and that only came out when

1202

00:48:49,049 --> 00:48:47,079

it was discovered that a lot of elderly

1203

00:48:52,680 --> 00:48:49,059

people who were taking these

1204

00:48:55,920 --> 00:48:52,690

combinations had catastrophic brain

1205

00:48:59,489 --> 00:48:55,930

hemorrhages because the begin CO and the

1206

00:49:02,160 --> 00:48:59,499

garlic end up resulting in even further

1207

00:49:03,959 --> 00:49:02,170

increased anticoagulation or thinning of

1208

00:49:07,049 --> 00:49:03,969

the blood and there was only discovered

1209

00:49:09,660 --> 00:49:07,059

when these people came to harm yeah as a

1210

00:49:12,420 --> 00:49:09,670

result of this so you know I think that

1211

00:49:15,449 --> 00:49:12,430

in that sense homeopathy will be

1212

00:49:19,859 --> 00:49:15,459

harmless because it's it's got nothing

1213

00:49:21,449 --> 00:49:19,869

in it a lot but it's harmful because

1214

00:49:23,969 --> 00:49:21,459

it's not treating the problem that

1215

00:49:27,029 --> 00:49:23,979

should be it should be being treated but

1216

00:49:28,589 --> 00:49:27,039

I did take the point of these things

1217

00:49:29,910 --> 00:49:28,599

happen to take on their merits depending

1218

00:49:30,550 --> 00:49:29,920

on what Chinese so we're talking about

1219

00:49:33,510 --> 00:49:30,560

what

1220

00:49:35,890 --> 00:49:33,520

text but generally speaking yes

1221

00:49:37,540 --> 00:49:35,900

homeopathy has the great attention will

1222

00:49:39,700 --> 00:49:37,550

be harmful e ineffective because it

1223

00:49:41,650 --> 00:49:39,710

doesn't do a damn thing whereas Chinese

1224

00:49:46,150 --> 00:49:41,660

herbs or any other herbs may or may not

1225

00:49:48,220 --> 00:49:46,160

contain hopes with the Chinese hopes is

1226

00:49:49,960 --> 00:49:48,230

there any generally any research being

1227

00:49:51,610 --> 00:49:49,970

done on the effectiveness huge amounts

1228

00:49:53,980 --> 00:49:51,620

huge amount of research on Chinese herbs

1229

00:49:56,590 --> 00:49:53,990

a lot of it in China as a matter of fact

1230

00:49:58,630 --> 00:49:56,600

but not all in China there's a chinese

1231

00:50:01,000 --> 00:49:58,640

medicine research facility at the

1232

00:50:02,410 --> 00:50:01,010

University of Technology in Sydney that

1233

00:50:04,780 --> 00:50:02,420

doesn't just look at homes but looks at

1234

00:50:06,250 --> 00:50:04,790

acupuncture another Chinese medicine so

1235

00:50:09,520 --> 00:50:06,260

yeah it's a massive amount of literature

1236

00:50:11,410 --> 00:50:09,530

a plenary published in peer-reviewed yes

1237

00:50:13,780 --> 00:50:11,420

yes there is a lot in peer-reviewed

1238

00:50:15,280 --> 00:50:13,790

journals a lot of it is appearing in the

1239

00:50:18,010 --> 00:50:15,290

Journal of nutritional medicine or

1240

00:50:19,330 --> 00:50:18,020

something like that I would have to have

1241

00:50:21,820 --> 00:50:19,340

a look on PubMed to see if there's

1242

00:50:23,950 --> 00:50:21,830

anything in high impact factor journals

1243

00:50:26,020 --> 00:50:23,960

the likes of nature or science but

1244

00:50:27,610 --> 00:50:26,030

there's a massive amount of work being

1245

00:50:30,850 --> 00:50:27,620

done on it I imagine that every

1246

00:50:32,590 --> 00:50:30,860

pharmaceutical company would love to get

1247

00:50:35,140 --> 00:50:32,600

their hands on some naturally appearing

1248

00:50:36,550 --> 00:50:35,150

plum that's got some wonder senators not

1249

00:50:38,590 --> 00:50:36,560

treated at the moment by conventional

1250

00:50:40,540 --> 00:50:38,600

medicine I also everywhere but they just

1251

00:50:42,070 --> 00:50:40,550

hidden because of the conspiracy but

1252

00:50:44,410 --> 00:50:42,080

there's also a lot of work being done on

1253

00:50:46,720 --> 00:50:44,420

the antioxidant properties of Chinese

1254

00:50:50,770 --> 00:50:46,730

herbs I go to a fair few conferences

1255

00:50:53,230 --> 00:50:50,780

with a lot of colleagues who are based

1256

00:50:54,760 --> 00:50:53,240

in Asia in China and in Japan and they

1257

00:50:56,860 --> 00:50:54,770

do spend a lot of government money

1258

00:50:59,770 --> 00:50:56,870

looking at the antioxidant properties of

1259

00:51:04,090 --> 00:50:59,780

things like tea particularly green tea

1260

00:51:06,220 --> 00:51:04,100

and also rice and punish yeah yeah

1261

00:51:08,920 --> 00:51:06,230

there's no evidence yet that i know of

1262

00:51:12,550 --> 00:51:08,930

that i know of because once you cook it

1263

00:51:14,770 --> 00:51:12,560

then you're affecting the you know the

1264

00:51:17,920 --> 00:51:14,780

effectiveness of their antioxidants but

1265

00:51:22,170 --> 00:51:17,930

yet is a huge amount of literature but

1266

00:51:26,980 --> 00:51:22,180

in general what do you you presumably

1267

00:51:28,240 --> 00:51:26,990

want to go to the conventional medical

1268

00:51:30,820 --> 00:51:28,250

sources you'd want to go see your doctor

1269

00:51:32,830 --> 00:51:30,830

or pharmacist rather than the local

1270

00:51:35,620 --> 00:51:32,840

chinese herb store way I don't know

1271

00:51:37,870 --> 00:51:35,630

evidence was positive no no there's a

1272

00:51:39,100 --> 00:51:37,880

lot of I mean literature you know what

1273

00:51:40,760 --> 00:51:39,110

we're saying there's a lot of potential

1274

00:51:43,150 --> 00:51:40,770

for Chinese

1275

00:51:44,990 --> 00:51:43,160

I didn't Chinese herbs or any herbs

1276

00:51:49,910 --> 00:51:45,000

potentially to have some kind of

1277

00:51:52,580 --> 00:51:49,920

demonstrated benefit the the best things

1278

00:51:55,760 --> 00:51:52,590

still to to consult evidence-based

1279

00:51:58,040 --> 00:51:55,770

medicine well it is based method yes I

1280

00:51:59,600 --> 00:51:58,050

the thing is David's it's them there

1281

00:52:01,220 --> 00:51:59,610

probably are as joe says active

1282

00:52:03,440 --> 00:52:01,230

ingredients in these products just like

1283

00:52:06,230 --> 00:52:03,450

there is in you know the bar covers of a

1284

00:52:09,080 --> 00:52:06,240

willow tree which is aspirin right but

1285

00:52:11,900 --> 00:52:09,090

you don't know if you go and chew on a

1286

00:52:13,760 --> 00:52:11,910

willow tree how much of the active

1287

00:52:15,710 --> 00:52:13,770

ingredient you're going to get it roll

1288

00:52:18,830 --> 00:52:15,720

over that's right and that's the issue

1289

00:52:20,090 --> 00:52:18,840

with some alternative therapies such as

1290

00:52:22,670 --> 00:52:20,100

Chinese you don't know what you're

1291

00:52:24,800 --> 00:52:22,680

getting you don't necessarily know so

1292

00:52:26,480 --> 00:52:24,810

with a pharmaceutical drug and i'm being

1293

00:52:35,500 --> 00:52:26,490

paid by the big pharma where's my check

1294

00:52:41,690 --> 00:52:35,510

um I i'll be getting me out shortly oh

1295

00:52:44,770 --> 00:52:41,700

I'm sorry I'm late but I had hell on

1296

00:52:49,100 --> 00:52:44,780

trying to get those sheep in the batter

1297

00:52:53,030 --> 00:52:49,110

cuz rusty my old sheepdog he's broken

1298

00:52:54,740 --> 00:52:53,040

his leg blessing and and I just I

1299

00:52:56,570 --> 00:52:54,750

couldn't get I was running around and

1300

00:52:59,240 --> 00:52:56,580

mrs. big farmer was running around with

1301  
00:53:02,360 --> 00:52:59,250  
jiggling all over the place she burned

1302  
00:53:04,790 --> 00:53:02,370  
the lasagna o mighty was just its

1303  
00:53:06,680 --> 00:53:04,800  
Phoenix I must tell Rosie died I must

1304  
00:53:11,510 --> 00:53:06,690  
tell you Big Pharma that um you might

1305  
00:53:13,520 --> 00:53:11,520  
want to call on the lovely practitioner

1306  
00:53:18,200 --> 00:53:13,530  
of therapeutic touch for animals to help

1307  
00:53:19,850 --> 00:53:18,210  
your rum yes yes there's a lovely lady

1308  
00:53:22,280 --> 00:53:19,860  
somewhere out there who i came across

1309  
00:53:25,850 --> 00:53:22,290  
recently who practices therapeutic touch

1310  
00:53:27,860 --> 00:53:25,860  
for various analyst so I i will check it

1311  
00:53:31,220 --> 00:53:27,870  
out the one thing i heard last week is

1312  
00:53:34,010 --> 00:53:31,230  
apparently the there is only Appa thief

1313  
00:53:36,470 --> 00:53:34,020

or dogs and we've been we've been

1314

00:53:38,690 --> 00:53:36,480

checking it out and there's big news

1315

00:53:41,540 --> 00:53:38,700

from the world of homeopathy for dogs

1316

00:53:43,850 --> 00:53:41,550

and there it doesn't work at all that's

1317

00:53:45,890 --> 00:53:43,860

it so homeopathy it's rubbish on animals

1318

00:53:47,570 --> 00:53:45,900

to the trouble with me up with you wake

1319

00:53:49,190 --> 00:53:47,580

everyone the trouble of big farmer is

1320

00:53:51,470 --> 00:53:49,200

here a bit zombie doesn't send us the

1321

00:53:53,359 --> 00:53:51,480

checks Ian what I will be right

1322

00:53:57,560 --> 00:53:53,369

James next week I just need to bring the

1323

00:53:59,300 --> 00:53:57,570

kale from the North meadow the falls are

1324

00:54:03,920 --> 00:53:59,310

at it like rabbits at the moon I've got

1325

00:54:06,200 --> 00:54:03,930

to keep them submarine you look like you

1326

00:54:08,290 --> 00:54:06,210

wanted to say something America oh well

1327

00:54:12,050 --> 00:54:08,300

a few thoughts have come and gone

1328

00:54:13,730 --> 00:54:12,060

talking about dogs oh yes I've got very

1329

00:54:18,740 --> 00:54:13,740

smart dog at home because only yesterday

1330

00:54:24,890 --> 00:54:18,750

asked the dog what's 37 minus 15 minus

1331

00:54:31,040 --> 00:54:24,900

22 and the dog said nothing been

1332

00:54:33,620 --> 00:54:31,050

replaced oh and I'm the subjects of

1333

00:54:36,560 --> 00:54:33,630

replacement I'm sure I can come up with

1334

00:54:39,020 --> 00:54:36,570

the worst joke on them I was in this

1335

00:54:40,849 --> 00:54:39,030

area yeah we're talking about Chinese

1336

00:54:43,130 --> 00:54:40,859

hurts then you go down to hay street and

1337

00:54:45,710 --> 00:54:43,140

into the Chinese herbalists there they

1338

00:54:48,290 --> 00:54:45,720

have an enormous array of a big cabin

1339

00:54:51,320 --> 00:54:48,300

enormous array of drawers often they

1340

00:54:53,480 --> 00:54:51,330

have maybe 12 x 15 drawers in a

1341

00:54:56,390 --> 00:54:53,490

rectangular array or with a handle on it

1342

00:54:58,190 --> 00:54:56,400

hmm and our signature herbs they open

1343

00:55:00,710 --> 00:54:58,200

the drawers and they take up so many

1344

00:55:02,480 --> 00:55:00,720

grams of this herb and so many grams of

1345

00:55:04,880 --> 00:55:02,490

that open a mix them up and boil them up

1346

00:55:07,190 --> 00:55:04,890

for you and the funny thing is all of

1347

00:55:11,390 --> 00:55:07,200

these two or three hundred drawers do

1348

00:55:12,800 --> 00:55:11,400

not have any labels on them at all so

1349

00:55:15,920 --> 00:55:12,810

the people who mix and are relying

1350

00:55:19,849 --> 00:55:15,930

entirely on their memory of what's in

1351

00:55:25,160 --> 00:55:19,859

each drawer good and down with my moto

1352

00:55:30,800 --> 00:55:25,170

here what's in the drawers I what's in

1353

00:55:35,330 --> 00:55:30,810

your drawers no I'm telling you that

1354

00:55:38,420 --> 00:55:35,340

only papa um Joe a topic you wanted to

1355

00:55:40,160 --> 00:55:38,430

talk about I know oh yeah oh yes um it's

1356

00:55:42,740 --> 00:55:40,170

actually come about from speaking to

1357

00:55:46,130 --> 00:55:42,750

people that aren't part of the the sort

1358

00:55:47,390 --> 00:55:46,140

of active skeptical community and I've

1359

00:55:50,210 --> 00:55:47,400

you know I've just had a lot of people

1360

00:55:53,540 --> 00:55:50,220

who are aware of some of the issues

1361

00:55:57,740 --> 00:55:55,790

you know various complementary and

1362

00:56:00,560 --> 00:55:57,750

alternative medicines and and all the

1363

00:56:03,650 --> 00:56:00,570

things that we talked about and they

1364

00:56:08,030 --> 00:56:03,660

really felt I think they felt quite

1365

00:56:11,530 --> 00:56:08,040

isolated from what skeptics active

1366

00:56:14,150 --> 00:56:11,540

skeptics do yeah and they just appear

1367

00:56:18,710 --> 00:56:14,160

feel quite hostile towards people who

1368

00:56:21,830 --> 00:56:18,720

identify as being skeptics yeah and you

1369

00:56:23,690 --> 00:56:21,840

know they felt that they didn't know how

1370

00:56:26,240 --> 00:56:23,700

to access the sorts of things that we

1371

00:56:28,130 --> 00:56:26,250

talked about and they said well how do

1372

00:56:30,080 --> 00:56:28,140

you know if you know all these things if

1373

00:56:33,380 --> 00:56:30,090

you know about the fact that homeopathy

1374

00:56:34,850 --> 00:56:33,390

is has no evidence behind it and that

1375

00:56:37,490 --> 00:56:34,860

there is potential harm and all these

1376

00:56:39,350 --> 00:56:37,500

things well how do i as a person out

1377

00:56:41,210 --> 00:56:39,360

there who might go out and buy these

1378

00:56:42,680 --> 00:56:41,220

things or who might go and see someone

1379

00:56:49,220 --> 00:56:42,690

who's offering these treatments how do I

1380

00:56:52,040 --> 00:56:49,230

know that this is not a full or by mad

1381

00:56:53,330 --> 00:56:52,050

at times and it was so it's something

1382

00:56:55,100 --> 00:56:53,340

that actually has been bothering me for

1383

00:56:57,200 --> 00:56:55,110

a while how do we disseminate

1384

00:57:00,440 --> 00:56:57,210

information to people in a way that is

1385

00:57:05,240 --> 00:57:00,450

palatable for them when they're not

1386

00:57:06,800 --> 00:57:05,250

familiar with thinking skeptically you

1387

00:57:11,840 --> 00:57:06,810

know and one of the things I actually

1388

00:57:16,940 --> 00:57:11,850

thought of was some the contraband had a

1389

00:57:18,920 --> 00:57:16,950

brain freeze but um what to do next the

1390

00:57:22,520 --> 00:57:18,930

young old Daniel often that's so much

1391

00:57:25,880 --> 00:57:22,530

yeah and skeptic yeah yeah I thought

1392

00:57:27,500 --> 00:57:25,890

that for for people who are skeptics who

1393

00:57:30,410 --> 00:57:27,510

are looking for information of how to

1394

00:57:31,670 --> 00:57:30,420

actually you know be more active and

1395

00:57:33,560 --> 00:57:31,680

what to do that would be a good resource

1396

00:57:35,840 --> 00:57:33,570

but generally speaking I thought what

1397

00:57:40,160 --> 00:57:35,850

can what can we do to share information

1398

00:57:41,720 --> 00:57:40,170

with people in a way that is perhaps you

1399

00:57:44,000 --> 00:57:41,730

know I think there are a lot of terms we

1400

00:57:46,220 --> 00:57:44,010

use like whew we're all familiar with

1401  
00:57:48,560 --> 00:57:46,230  
but to other people it's a bit strange

1402  
00:57:50,930 --> 00:57:48,570  
they don't understand it it's new to

1403  
00:57:53,480 --> 00:57:50,940  
them how can we how did you find out

1404  
00:57:55,190 --> 00:57:53,490  
well your own experience well my only I

1405  
00:57:57,920 --> 00:57:55,200  
mean I think you know I've mentioned

1406  
00:58:00,560 --> 00:57:57,930  
this before I've I can't remember not

1407  
00:58:02,900 --> 00:58:00,570  
thinking this way and I remember not

1408  
00:58:03,559 --> 00:58:02,910  
being a skeptic and it was really just

1409  
00:58:05,359 --> 00:58:03,569  
matter

1410  
00:58:11,180 --> 00:58:05,369  
from a small I skeptic to a biggest

1411  
00:58:12,739 --> 00:58:11,190  
skeptic for me so yes no it was more you

1412  
00:58:14,150 --> 00:58:12,749  
know it went from something that I was

1413  
00:58:15,739 --> 00:58:14,160

aware of in my own head to something

1414

00:58:17,299 --> 00:58:15,749

that I was quite happy to shout out to

1415

00:58:20,359 --> 00:58:17,309

people because I felt it was necessary

1416

00:58:22,279 --> 00:58:20,369

to to do something you make a very good

1417

00:58:24,769 --> 00:58:22,289

point because it was only a couple of

1418

00:58:27,739 --> 00:58:24,779

weeks ago when we were in Melbourne were

1419

00:58:29,719 --> 00:58:27,749

you with Kylie and me and Stephen we

1420

00:58:33,019 --> 00:58:29,729

went into the pharmacy and we picked up

1421

00:58:35,660 --> 00:58:33,029

the bottle of sleeping pills homie up

1422

00:58:37,849 --> 00:58:35,670

papi yes I was with you yeah homeopathy

1423

00:58:39,559 --> 00:58:37,859

and the young assistant who came over

1424

00:58:41,630 --> 00:58:39,569

and said yes can I hope you didn't have

1425

00:58:44,120 --> 00:58:41,640

a glue and I said yeah I'm just trying

1426

00:58:46,609 --> 00:58:44,130

I'm trying to decide which box of pills

1427

00:58:49,219 --> 00:58:46,619

to eat all at once and she looked at me

1428

00:58:51,049 --> 00:58:49,229

like I was either kidding or mad or both

1429

00:58:53,689 --> 00:58:51,059

or whatever the case may be now she

1430

00:58:55,459 --> 00:58:53,699

didn't know and she's working in a

1431

00:58:57,199 --> 00:58:55,469

pharmacy so for the general public of

1432

00:58:59,359 --> 00:58:57,209

course they're going to fall for this

1433

00:59:02,239 --> 00:58:59,369

stuff because why should they know and

1434

00:59:04,759 --> 00:59:02,249

how do they get to know I suppose we're

1435

00:59:06,829 --> 00:59:04,769

doing our bit by making well a podcast

1436

00:59:08,120 --> 00:59:06,839

at the moment now hopefully there'll be

1437

00:59:10,579 --> 00:59:08,130

people who think that this will be their

1438

00:59:15,349 --> 00:59:10,589

first skeptical podcast and it'll be

1439

00:59:17,539 --> 00:59:15,359

this episode hello hello and they might

1440

00:59:19,729 --> 00:59:17,549

pick up something along the way and if

1441

00:59:21,769 --> 00:59:19,739

everybody who listens to this now have a

1442

00:59:23,449 --> 00:59:21,779

bit of a thing and if they know a friend

1443

00:59:26,239 --> 00:59:23,459

who might benefit let him know about the

1444

00:59:27,680 --> 00:59:26,249

podcast in and so on but apart from that

1445

00:59:29,839 --> 00:59:27,690

well we had this discussion the other

1446

00:59:31,430 --> 00:59:29,849

night on skype and I mentioned to you

1447

00:59:33,439 --> 00:59:31,440

Joe that I think one of the best ways to

1448

00:59:35,719 --> 00:59:33,449

do it and this has been talked about by

1449

00:59:38,299 --> 00:59:35,729

other skeptics in the past is to get it

1450

00:59:41,269 --> 00:59:38,309

out there and particularly through blogs

1451  
00:59:43,670 --> 00:59:41,279  
for example write about it Twitter about

1452  
00:59:47,150 --> 00:59:43,680  
it linked to it get it onto the internet

1453  
00:59:49,579 --> 00:59:47,160  
so if somebody is a parent for example

1454  
00:59:51,620 --> 00:59:49,589  
and wants to do some research on let's

1455  
00:59:53,359 --> 00:59:51,630  
say the MMR measles mumps rubella

1456  
00:59:55,880 --> 00:59:53,369  
vaccine because they've heard some

1457  
00:59:58,459 --> 00:59:55,890  
rumors that it causes autism if you type

1458  
01:00:00,289 --> 00:59:58,469  
him MMR autism into Google you won't

1459  
01:00:01,910 --> 01:00:00,299  
just get hit saying yes it does you'll

1460  
01:00:03,589 --> 01:00:01,920  
get lots of web pages that say it

1461  
01:00:06,589 --> 01:00:03,599  
doesn't for this reason in this reason

1462  
01:00:11,390 --> 01:00:06,599  
and I've had an experience recently

1463  
01:00:12,709 --> 01:00:11,400

where someone got on somebody else's

1464

01:00:15,439 --> 01:00:12,719

blog actually Sean the blogger naughts

1465

01:00:16,999 --> 01:00:15,449

blog i was saying well you guys are

1466

01:00:19,430 --> 01:00:17,009

saying that vaccines don't cause this in

1467

01:00:21,289 --> 01:00:19,440

this but you know why are you saying

1468

01:00:23,390 --> 01:00:21,299

this and about six or seven of us got on

1469

01:00:25,489 --> 01:00:23,400

and said here's the reasons why here's

1470

01:00:27,049 --> 01:00:25,499

the evidence and at the end of that

1471

01:00:28,729 --> 01:00:27,059

discussion this person said well thanks

1472

01:00:30,079 --> 01:00:28,739

guys i was hoping to get a debate and i

1473

01:00:32,420 --> 01:00:30,089

was hoping to get some intelligent

1474

01:00:35,719 --> 01:00:32,430

responses and i did and i'm pleased and

1475

01:00:37,489 --> 01:00:35,729

i'll go away and think about it now so i

1476

01:00:38,749 --> 01:00:37,499

think that's really important because if

1477

01:00:40,219 --> 01:00:38,759

you type of that those sort of things

1478

01:00:42,170 --> 01:00:40,229

into google and one of the first sort of

1479

01:00:44,660 --> 01:00:42,180

hits you get is a website disputing

1480

01:00:47,809 --> 01:00:44,670

these erroneous claims that's going to

1481

01:00:49,699 --> 01:00:47,819

you know put a seed in your mind I give

1482

01:00:52,609 --> 01:00:49,709

you an opportunity to look for something

1483

01:00:55,130 --> 01:00:52,619

that is a different opinion or based in

1484

01:00:58,880 --> 01:00:55,140

evidence rather than I think also the

1485

01:01:02,180 --> 01:00:58,890

other thing is also the image that we

1486

01:01:05,029 --> 01:01:02,190

have a skeptics you know I've frequently

1487

01:01:08,479 --> 01:01:05,039

been called or being told that I'm

1488

01:01:10,609 --> 01:01:08,489

involved with the Australian cynics hmm

1489

01:01:11,989 --> 01:01:10,619

and you and that you're close mind and

1490

01:01:14,539 --> 01:01:11,999

your clothes might I mean the things I

1491

01:01:18,650 --> 01:01:14,549

think we're all familiar with um and I

1492

01:01:21,680 --> 01:01:18,660

you know I think the the public

1493

01:01:24,859 --> 01:01:21,690

perception of some of what we do and how

1494

01:01:27,049 --> 01:01:24,869

we why we do this you have to need to be

1495

01:01:28,910 --> 01:01:27,059

careful because I work with a lot of

1496

01:01:31,189 --> 01:01:28,920

parents and if I go in working with

1497

01:01:32,809 --> 01:01:31,199

parents and say oh it's all rubbish and

1498

01:01:33,949 --> 01:01:32,819

you shouldn't believe all that what I

1499

01:01:35,029 --> 01:01:33,959

think that what you need to do is

1500

01:01:37,069 --> 01:01:35,039

especially if you have a relationship

1501

01:01:39,799 --> 01:01:37,079

with these people do it in small doses

1502

01:01:41,449 --> 01:01:39,809

and not over well not it's all rubbish

1503

01:01:44,959 --> 01:01:41,459

that's the worst thing that you can do I

1504

01:01:46,849 --> 01:01:44,969

think you know I sure you would have had

1505

01:01:49,430 --> 01:01:46,859

similar experiences of sitting in a

1506

01:01:51,049 --> 01:01:49,440

dinner table with people and you know

1507

01:01:52,939 --> 01:01:51,059

something I've learned as I've gone long

1508

01:01:54,079 --> 01:01:52,949

and this is you know you sometimes you

1509

01:01:56,109 --> 01:01:54,089

assume people are going to think

1510

01:01:59,269 --> 01:01:56,119

similarly to you even if they don't

1511

01:02:01,279 --> 01:01:59,279

express it and you know I've SAT with

1512

01:02:04,099 --> 01:02:01,289

people that have been a table and and

1513

01:02:05,569 --> 01:02:04,109

quite loudly expressed my views from

1514

01:02:08,170 --> 01:02:05,579

homeopathy and I realize that I'm

1515

01:02:10,000 --> 01:02:08,180

sitting with people who use homie

1516

01:02:13,180 --> 01:02:10,010

and you sort of sit back and you think

1517

01:02:15,490 --> 01:02:13,190

oh you know its fine there's nothing

1518

01:02:18,059 --> 01:02:15,500

wrong with expressing here yeah but if

1519

01:02:21,520 --> 01:02:18,069

they're people who use it you are

1520

01:02:23,079 --> 01:02:21,530

unaware i mean as we've said before lot

1521

01:02:24,609 --> 01:02:23,089

of people don't know what I don't me as

1522

01:02:25,900 --> 01:02:24,619

they use it they don't know what it is

1523

01:02:28,150 --> 01:02:25,910

they think that there's an active

1524

01:02:30,730 --> 01:02:28,160

ingredient or they just assume it's

1525

01:02:32,140 --> 01:02:30,740

another sort of medicine exactly not

1526

01:02:33,339 --> 01:02:32,150

even that its alternative medicine

1527

01:02:35,950 --> 01:02:33,349

especially if they go into a pharmacy

1528

01:02:38,829 --> 01:02:35,960

and it's right off the shelf why would

1529

01:02:40,750 --> 01:02:38,839

they think it's not just another medical

1530

01:02:42,579 --> 01:02:40,760

ID i think it's natural because it's a

1531

01:02:45,160 --> 01:02:42,589

touted as no side effects so they think

1532

01:02:47,380 --> 01:02:45,170

its actual yes exactly the same but I

1533

01:02:49,630 --> 01:02:47,390

mean it's a fair question say well why

1534

01:02:51,819 --> 01:02:49,640

would it be sold in pharmacies if you

1535

01:02:54,880 --> 01:02:51,829

know why would why would the market be

1536

01:02:56,740 --> 01:02:54,890

there why would they be able to spend

1537

01:02:58,299 --> 01:02:56,750

all this money making it and packaging

1538

01:03:00,549 --> 01:02:58,309

it and putting it out there if he were

1539

01:03:02,260 --> 01:03:00,559

just water and sugar pills and it's it's

1540

01:03:03,730 --> 01:03:02,270

a fair enough question yeah no no they

1541

01:03:06,160 --> 01:03:03,740

think it's a medicine but I think it's a

1542

01:03:10,120 --> 01:03:06,170

natural medicine which in itself is but

1543

01:03:12,490 --> 01:03:10,130

still natural istic policy you know yeah

1544

01:03:14,849 --> 01:03:12,500

that's right if you pick up for example

1545

01:03:17,440 --> 01:03:14,859

you know as I've said before about the

1546

01:03:19,990 --> 01:03:17,450

homeopathic remedies for pain and fever

1547

01:03:22,180 --> 01:03:20,000

for children mmm which i think is quite

1548

01:03:24,400 --> 01:03:22,190

dangerous they have lollipops have you

1549

01:03:26,079 --> 01:03:24,410

seen that no I haven't yeah homeopathic

1550

01:03:31,289 --> 01:03:26,089

lollipops I'm not kidding to the kids

1551

01:03:34,329 --> 01:03:31,299

Sam thank you so the lollipops yes

1552

01:03:36,700 --> 01:03:34,339

pretty mazda that costs more than normal

1553

01:03:39,370 --> 01:03:36,710

a lollipop yes absolutely but i mean if

1554

01:03:42,849 --> 01:03:39,380

you if you pick up you know you'll see

1555

01:03:45,130 --> 01:03:42,859

tomorrow and if you read on the back and

1556

01:03:47,980 --> 01:03:45,140

it says 500 milligrams of paracetamol

1557

01:03:53,410 --> 01:03:47,990

and you pick up your homeopathic remedy

1558

01:03:55,930 --> 01:03:53,420

and it says you know fully existing 6c

1559

01:03:57,760 --> 01:03:55,940

whatever how is the average person gonna

1560

01:04:00,250 --> 01:03:57,770

have em oh what that means and you can't

1561

01:04:02,349 --> 01:04:00,260

it how can maybe yeah well yes I was

1562

01:04:03,970 --> 01:04:02,359

about to say that why should they why

1563

01:04:06,760 --> 01:04:03,980

should they should be able to go to a

1564

01:04:11,400 --> 01:04:06,770

pharmacy and simply trust that this

1565

01:04:13,960 --> 01:04:11,410

stuff is on as a kosher so to speak

1566

01:04:16,720 --> 01:04:13,970

should be an advertising standard that

1567

01:04:18,280 --> 01:04:16,730

if it doesn't contain any ingredient it

1568

01:04:20,740 --> 01:04:18,290

should not be stated as having that

1569

01:04:22,120 --> 01:04:20,750

ingredient zactly well interesting

1570

01:04:23,560 --> 01:04:22,130

homeopathy is not listed with the

1571

01:04:26,140 --> 01:04:23,570

government because it contains nothing

1572

01:04:28,900 --> 01:04:26,150

so it's not regulated because it

1573

01:04:35,110 --> 01:04:28,910

contains some memory of water are you

1574

01:04:36,580 --> 01:04:35,120

some duel Heather money yes hello

1575

01:04:46,090 --> 01:04:36,590

everybody I'm sorry for all of us a

1576

01:04:48,580 --> 01:04:46,100

confusion just a little joke I'm glad

1577

01:04:53,400 --> 01:04:48,590

you're here we go I've been having a

1578

01:04:57,030 --> 01:04:53,410

little little daisies others mama I'm

1579

01:04:59,590 --> 01:04:57,040

something for that I can put on our team

1580

01:05:02,860 --> 01:04:59,600

this is all the swelling yes i have but

1581

01:05:10,360 --> 01:05:02,870

we discuss it later my by okay Darren's

1582

01:05:30,010 --> 01:05:10,370

drinks are going down well the other

1583

01:05:36,910 --> 01:05:30,020

thing is just to be to live the this is

1584

01:05:40,740 --> 01:05:36,920

a homeopathic ghost I should tell you

1585

01:05:43,900 --> 01:05:40,750

that Richard is on pharmaceutical drugs

1586

01:05:45,430 --> 01:05:43,910

he has some sort of flu I've been a bit

1587

01:05:48,910 --> 01:05:45,440

of a call as opposed to the illicit

1588

01:05:51,100 --> 01:05:48,920

count richie my respects do you know

1589

01:05:52,990 --> 01:05:51,110

lost the plot I've lost them but you

1590

01:05:54,220 --> 01:05:53,000

know what can I can I just come back to

1591

01:05:56,860 --> 01:05:54,230

the whole you know how do we do with

1592

01:05:58,750 --> 01:05:56,870

talking to you I'm biggest skeptic I

1593

01:06:00,070 --> 01:05:58,760

think must be last more less skeptics to

1594

01:06:02,800 --> 01:06:00,080

a certain extent everybody you buy a

1595

01:06:04,300 --> 01:06:02,810

used car yeah is a smaller skeptic and

1596

01:06:07,330 --> 01:06:04,310

in that respect it's just that don't

1597

01:06:09,850 --> 01:06:07,340

apply it naturally to every situation

1598

01:06:11,890 --> 01:06:09,860

but but it is just just by by being

1599

01:06:13,390 --> 01:06:11,900

skeptical at me I remember a long busy

1600

01:06:16,039 --> 01:06:13,400

conversation with a colleague at a party

1601  
01:06:19,429 --> 01:06:18,259  
for some reason we got onto skepticism

1602  
01:06:21,469 --> 01:06:19,439  
and I don't like banging it down

1603  
01:06:23,779 --> 01:06:21,479  
people's throws you know I'm loving I

1604  
01:06:25,219 --> 01:06:23,789  
love you know shout in my mouth out if

1605  
01:06:26,959 --> 01:06:25,229  
people take me home and I love talking

1606  
01:06:28,249 --> 01:06:26,969  
to members of the community but I don't

1607  
01:06:31,759 --> 01:06:28,259  
like banging our a pathetic people

1608  
01:06:33,259 --> 01:06:31,769  
throws but he got me on to the topic

1609  
01:06:34,699 --> 01:06:33,269  
after a lot of beers and he was like but

1610  
01:06:37,009 --> 01:06:34,709  
you know and he was coming up with a

1611  
01:06:40,069 --> 01:06:37,019  
whole relativism thing and you know how

1612  
01:06:42,650 --> 01:06:40,079  
something all but it's true for me and

1613  
01:06:44,089 --> 01:06:42,660

supply that most mundane all I said when

1614

01:06:46,939 --> 01:06:44,099

I tried to say as clearly as I could

1615

01:06:49,160 --> 01:06:46,949

after so many beers but there's yeah

1616

01:06:50,569 --> 01:06:49,170

there is a there is a kind of truth we

1617

01:06:53,179 --> 01:06:50,579

all share and it's the kind of truth

1618

01:06:55,609 --> 01:06:53,189

that's that's testable and either

1619

01:06:58,519 --> 01:06:55,619

something works or it doesn't work in

1620

01:07:01,669 --> 01:06:58,529

the real world yeah and you don't need

1621

01:07:04,339 --> 01:07:01,679

to get down to metaphysics or to quantum

1622

01:07:05,719 --> 01:07:04,349

dynamics to explain that you know if I

1623

01:07:06,890 --> 01:07:05,729

throw a ball in the air it's going to

1624

01:07:08,449 --> 01:07:06,900

fall down and that's the kind of truth

1625

01:07:10,969 --> 01:07:08,459

we all share no matter what culture wit

1626  
01:07:12,679 --> 01:07:10,979  
from and his eyes opened he just

1627  
01:07:14,749 --> 01:07:12,689  
realized that this relevant thing that

1628  
01:07:18,679 --> 01:07:14,759  
had been that had been kind of semi

1629  
01:07:21,410 --> 01:07:18,689  
assuming I get the lamb was just a fact

1630  
01:07:23,689 --> 01:07:21,420  
nonsense I think I'll i agree i think it

1631  
01:07:25,549 --> 01:07:23,699  
is likely nonsense but i will remember

1632  
01:07:27,949 --> 01:07:25,559  
that little anecdote that's a good very

1633  
01:07:29,359 --> 01:07:27,959  
simple thing you can you can describe it

1634  
01:07:30,709 --> 01:07:29,369  
when you throw the ball up it's going to

1635  
01:07:32,299 --> 01:07:30,719  
come down and it doesn't matter what

1636  
01:07:33,890 --> 01:07:32,309  
culture you're in or what you think it's

1637  
01:07:36,769 --> 01:07:33,900  
going to happen so there's an underlying

1638  
01:07:39,650 --> 01:07:36,779

truth to questions of fact yeah I

1639

01:07:42,469 --> 01:07:39,660

shouldn't lose sight of it's something

1640

01:07:44,959 --> 01:07:42,479

that we all share no matter what

1641

01:07:47,719 --> 01:07:44,969

assumptions you're starting from a

1642

01:07:49,099 --> 01:07:47,729

background you're from or what beliefs

1643

01:07:52,959 --> 01:07:49,109

you hold there are certain things that

1644

01:07:55,969 --> 01:07:52,969

are just truly wish ever yeah I agree

1645

01:07:59,120 --> 01:07:55,979

part of the I agree with that completely

1646

01:08:03,769 --> 01:07:59,130

but I think part of the danger enum what

1647

01:08:06,259 --> 01:08:03,779

a lot of the people who are becoming

1648

01:08:10,279 --> 01:08:06,269

more vocal for example some of these

1649

01:08:13,539 --> 01:08:10,289

zone there was that that website that we

1650

01:08:16,879 --> 01:08:13,549

looked at recently which was promoting

1651  
01:08:21,709 --> 01:08:16,889  
various cancer cures using nutrition and

1652  
01:08:24,030 --> 01:08:21,719  
so on and they they almost sort of make

1653  
01:08:26,820 --> 01:08:24,040  
one question reality in

1654  
01:08:29,430 --> 01:08:26,830  
they are you know the things that we

1655  
01:08:33,210 --> 01:08:29,440  
have always been able to trust on it you

1656  
01:08:37,070 --> 01:08:33,220  
know things like that the science-based

1657  
01:08:41,490 --> 01:08:37,080  
things are trust about because they are

1658  
01:08:43,520 --> 01:08:41,500  
scientifically tested and when the way

1659  
01:08:48,930 --> 01:08:43,530  
these people speak about things

1660  
01:08:50,370 --> 01:08:48,940  
questions ones trust of of science I

1661  
01:08:53,970 --> 01:08:50,380  
think it makes it very difficult for

1662  
01:08:55,710 --> 01:08:53,980  
people who don't understand those

1663  
01:08:57,570 --> 01:08:55,720

methods will you get the people who say

1664

01:09:00,329 --> 01:08:57,580

that science is just another beliefs

1665

01:09:04,520 --> 01:09:00,339

instantly exactly and so it makes it

1666

01:09:07,710 --> 01:09:04,530

very difficult for people who haven't

1667

01:09:09,960 --> 01:09:07,720

had the exposure to you know things like

1668

01:09:12,750 --> 01:09:09,970

that yeah to really know what is real

1669

01:09:17,579 --> 01:09:12,760

and what is true so if if we've seen is

1670

01:09:21,420 --> 01:09:17,589

a safe alternative present itself as the

1671

01:09:23,670 --> 01:09:21,430

real safe alternative in opposition to

1672

01:09:27,930 --> 01:09:23,680

what is a scientifically accepted and

1673

01:09:29,760 --> 01:09:27,940

tested thing then you know it's hard for

1674

01:09:32,430 --> 01:09:29,770

people to feel that to know what they

1675

01:09:34,140 --> 01:09:32,440

can trust it is it's not easy at all I

1676

01:09:35,820 --> 01:09:34,150

mean a lot of people think being a

1677

01:09:37,730 --> 01:09:35,830

skeptic is easier i have to go round and

1678

01:09:40,890 --> 01:09:37,740

saying no i don't think that works but

1679

01:09:42,570 --> 01:09:40,900

as i've told students and i told lots of

1680

01:09:44,910 --> 01:09:42,580

people doing talk says you have to learn

1681

01:09:47,490 --> 01:09:44,920

a lot of stuff to be a to call yourself

1682

01:09:50,160 --> 01:09:47,500

a big s cavity can't just go around

1683

01:09:52,170 --> 01:09:50,170

saying it's rubbish and a lot of people

1684

01:09:54,510 --> 01:09:52,180

i mean i've come across people who said

1685

01:09:56,880 --> 01:09:54,520

oh this this is rubbish it's silly and i

1686

01:09:59,340 --> 01:09:56,890

said well why do you say that are you

1687

01:10:01,260 --> 01:09:59,350

sure it's silly i know i probably agree

1688

01:10:03,510 --> 01:10:01,270

with you that it is but why do you say

1689

01:10:05,010 --> 01:10:03,520

XYZ is implausible you know why do you

1690

01:10:06,390 --> 01:10:05,020

say alternative medicine doesn't work or

1691

01:10:09,450 --> 01:10:06,400

coming up with these rubbish do you know

1692

01:10:11,160 --> 01:10:09,460

out what the claims are so that's pretty

1693

01:10:13,410 --> 01:10:11,170

important to know now what do you think

1694

01:10:14,850 --> 01:10:13,420

about the idea of publicity stunts what

1695

01:10:16,260 --> 01:10:14,860

if these trained skeptics or the skeptic

1696

01:10:18,720 --> 01:10:16,270

zone did a big publicity stunt for

1697

01:10:20,580 --> 01:10:18,730

example and went down to pitt street

1698

01:10:22,950 --> 01:10:20,590

mall here in Sydney with a bucket full

1699

01:10:24,540 --> 01:10:22,960

of homeopathic pills in sight at you

1700

01:10:26,520 --> 01:10:24,550

know just look book movie doesn't change

1701

01:10:28,200 --> 01:10:26,530

people's lives and what it but would it

1702

01:10:29,640 --> 01:10:28,210

draw people's attention to the fact that

1703

01:10:31,470 --> 01:10:29,650

there's these lunatics eating all these

1704

01:10:35,660 --> 01:10:31,480

pills there's must be something going on

1705

01:10:38,160 --> 01:10:35,670

I think so hmm well we're not lunatics

1706

01:10:43,740 --> 01:10:38,170

you think so Diane see she's on my side

1707

01:10:46,170 --> 01:10:43,750

I mean he did good oh you'd be good to

1708

01:10:47,610 --> 01:10:46,180

get the publicity if he could do it it's

1709

01:10:49,200 --> 01:10:47,620

always great to get the publicity you

1710

01:10:51,060 --> 01:10:49,210

know I thought you know I'd love

1711

01:10:52,830 --> 01:10:51,070

everybody to know who we are like to see

1712

01:10:54,180 --> 01:10:52,840

this in every news agent have you

1713

01:10:56,160 --> 01:10:54,190

written a song yet embedded on the upper

1714

01:10:58,860 --> 01:10:56,170

think it's so small it's very very soon

1715

01:11:00,900 --> 01:10:58,870

it's it's it's after i've got i've got

1716

01:11:02,310 --> 01:11:00,910

i've got i've got us yes well yeah

1717

01:11:04,020 --> 01:11:02,320

there's something there's something good

1718

01:11:07,380 --> 01:11:04,030

there's something something forming

1719

01:11:10,170 --> 01:11:07,390

there it's like Aunt late yeah I've got

1720

01:11:12,930 --> 01:11:10,180

home a homeopathic levels of inspiration

1721

01:11:14,280 --> 01:11:12,940

but I don't you you've had experience

1722

01:11:15,630 --> 01:11:14,290

Richard with things like that for

1723

01:11:17,700 --> 01:11:15,640

example when you went out to Macquarie

1724

01:11:20,610 --> 01:11:17,710

uni you with the skeptics skeptics some

1725

01:11:21,840 --> 01:11:20,620

crowd there at a week yeah and you know

1726

01:11:24,540 --> 01:11:21,850

you're getting a lot of people coming

1727

01:11:26,700 --> 01:11:24,550

through there who you know uni students

1728

01:11:28,350 --> 01:11:26,710

attending a week who who would pass wide

1729

01:11:31,320 --> 01:11:28,360

skipped extending to see demonstrations

1730

01:11:32,580 --> 01:11:31,330

of various things I mean that that's a

1731

01:11:34,620 --> 01:11:32,590

good forum for seeing which with

1732

01:11:36,300 --> 01:11:34,630

interest is such group that work the

1733

01:11:37,470 --> 01:11:36,310

Macquarie skeptics a marvelous you get a

1734

01:11:39,720 --> 01:11:37,480

lot of people interested out there I

1735

01:11:41,640 --> 01:11:39,730

think that those university groups are

1736

01:11:43,020 --> 01:11:41,650

priceless they're great and I hope those

1737

01:11:45,120 --> 01:11:43,030

there's some more I think going to be

1738

01:11:46,860 --> 01:11:45,130

starting up in Sydney soon I also think

1739

01:11:48,810 --> 01:11:46,870

that Simon Singh this case is probably

1740

01:11:53,390 --> 01:11:48,820

the worst thing for homeopathy but they

1741

01:11:58,430 --> 01:11:56,280

so I see your point yeah I see a point

1742

01:12:01,710 --> 01:11:58,440

now talking about finding things Rachel

1743

01:12:04,440 --> 01:12:01,720

what's that oh I just wanted to mention

1744

01:12:07,410 --> 01:12:04,450

the onion piece that came out yesterday

1745

01:12:09,780 --> 01:12:07,420

which was um genex thing with the onion

1746

01:12:11,940 --> 01:12:09,790

is for people who the onion yeah it's a

1747

01:12:14,970 --> 01:12:11,950

satirical newspaper which is now gone

1748

01:12:17,400 --> 01:12:14,980

online and videos and ya know they have

1749

01:12:20,490 --> 01:12:17,410

a very extravagant oh yeah it's great

1750

01:12:21,720 --> 01:12:20,500

website actually that it's for

1751

01:12:23,550 --> 01:12:21,730

Australian list since it's a little bit

1752

01:12:26,250 --> 01:12:23,560

like what the chaser used to do when

1753

01:12:28,050 --> 01:12:26,260

they did CNN and n but very polished and

1754

01:12:30,690 --> 01:12:28,060

looks a lot like sort of Fox News or CNN

1755

01:12:32,760 --> 01:12:30,700

really does yeah and um yeah they have

1756

01:12:35,310 --> 01:12:32,770

some pretty outrageous stories which we

1757

01:12:38,090 --> 01:12:35,320

we saw one a week or so ago when they

1758

01:12:41,280 --> 01:12:38,100

had the shaken baby that was brilliant

1759

01:12:42,280 --> 01:12:41,290

see I like that see Rachel's not so sure

1760

01:12:44,950 --> 01:12:42,290

Rachel beauty

1761

01:12:46,390 --> 01:12:44,960

I mean this happened that I saw it just

1762

01:12:48,070 --> 01:12:46,400

a few days after the chase that got

1763

01:12:50,800 --> 01:12:48,080

taken off the air for two weeks for

1764

01:12:52,600 --> 01:12:50,810

their story about making an outrageous

1765

01:12:54,400 --> 01:12:52,610

Wish Foundation whatever it's called and

1766

01:12:56,470 --> 01:12:54,410

I thought it was really it really

1767

01:12:58,720 --> 01:12:56,480

crossed the line but Diane thought it

1768

01:13:01,660 --> 01:12:58,730

was really funny it was so many areas

1769

01:13:04,390 --> 01:13:01,670

and I myself chase it I didn't we were a

1770

01:13:07,900 --> 01:13:04,400

couple with the chasers it either but

1771

01:13:09,250 --> 01:13:07,910

that shaking baby but we won't spoil if

1772

01:13:10,630 --> 01:13:09,260

listeners want to go to the onion

1773

01:13:12,400 --> 01:13:10,640

website they'll probably find it but it

1774

01:13:14,350 --> 01:13:12,410

has to do with a baby in a baby capture

1775

01:13:16,450 --> 01:13:14,360

but Willie yeah just do a search anyway

1776

01:13:18,970 --> 01:13:16,460

good anywhere today the onion or

1777

01:13:21,790 --> 01:13:18,980

yesterday they put out their little sort

1778

01:13:24,370 --> 01:13:21,800

of box pop on the website which is

1779

01:13:26,860 --> 01:13:24,380

called what do you think and it was

1780

01:13:29,380 --> 01:13:26,870

called our vaccine rejecters put kids at

1781

01:13:30,670 --> 01:13:29,390

risk this is where they just interview

1782

01:13:33,430 --> 01:13:30,680

people on the street Nelson for their

1783

01:13:35,080 --> 01:13:33,440

opinions and they said that though

1784

01:13:37,780 --> 01:13:35,090

children who go I'm vaccinated for

1785

01:13:39,370 --> 01:13:37,790

whooping cough are 23 times more likely

1786

01:13:41,500 --> 01:13:39,380

to contract the illness than those who

1787

01:13:43,570 --> 01:13:41,510

get their shots many parents are still

1788

01:13:46,210 --> 01:13:43,580

choosing to forgo immunization for their

1789

01:13:47,860 --> 01:13:46,220

kids what do you think and they go out

1790

01:13:50,440 --> 01:13:47,870

and ask you know mr. Joe of the street

1791

01:13:52,060 --> 01:13:50,450

hmm do they how do they were just like I

1792

01:13:54,910 --> 01:13:52,070

mentioned it was satire when you would

1793

01:13:57,130 --> 01:13:54,920

hear Dave but um they might make it up

1794

01:13:58,450 --> 01:13:57,140

be decide for yourself here they were

1795

01:14:00,850 --> 01:13:58,460

spoken to a gentleman by the name of

1796

01:14:02,830 --> 01:14:00,860

Scott sacks and he is a baker and i'm

1797

01:14:06,040 --> 01:14:02,840

going to get my big farmer to read out

1798

01:14:09,850 --> 01:14:06,050

his response or i can read this out this

1799

01:14:14,860 --> 01:14:09,860

way Scott sacked the the Baker says but

1800

01:14:18,010 --> 01:14:14,870

vaccinations cause autism sure science

1801  
01:14:22,780 --> 01:14:18,020  
says otherwise but Jenny McCarthy are

1802  
01:14:25,750 --> 01:14:22,790  
some real convincing anak no thank you

1803  
01:14:28,060 --> 01:14:25,760  
big pharma the onion also spoke to

1804  
01:14:29,200 --> 01:14:28,070  
kitson done it was a feed blender now

1805  
01:14:32,410 --> 01:14:29,210  
Big Pharma you might know something

1806  
01:14:36,220 --> 01:14:32,420  
about blending feed I I know Ivy ivy

1807  
01:14:40,870 --> 01:14:36,230  
I've had a regular fee blender now

1808  
01:14:44,350 --> 01:14:40,880  
earnings Janet she she comes down once a

1809  
01:14:46,120 --> 01:14:44,360  
week so to blend my feed and she she

1810  
01:14:48,400 --> 01:14:46,130  
gets the feet and she puts into her feet

1811  
01:14:51,730 --> 01:14:48,410  
blending equipment mental and and she

1812  
01:14:53,650 --> 01:14:51,740  
she blends it and it cost me two hundred

1813  
01:14:54,959 --> 01:14:53,660

pounds of time and I'm not even sure but

1814

01:14:58,140 --> 01:14:54,969

she's an expert

1815

01:15:03,660 --> 01:14:58,150

also the onion also asked a gentleman by

1816

01:15:06,390 --> 01:15:03,670

the name of Michael foul foul and he is

1817

01:15:09,299 --> 01:15:06,400

a brick junction maker and I believe

1818

01:15:11,489 --> 01:15:09,309

Diane know something about function

1819

01:15:14,009 --> 01:15:11,499

right over let their specialized adjust

1820

01:15:16,140 --> 01:15:14,019

to intersections just Brickley

1821

01:15:18,540 --> 01:15:16,150

intersections they studied for four

1822

01:15:20,160 --> 01:15:18,550

years to be able to adjust intersections

1823

01:15:21,870 --> 01:15:20,170

so they don't through the law it had

1824

01:15:23,430 --> 01:15:21,880

many very long stretch a bit of the wall

1825

01:15:25,560 --> 01:15:23,440

that is doing aware of their joy because

1826

01:15:27,450 --> 01:15:25,570

it's very different it's a yeah

1827

01:15:31,560 --> 01:15:27,460

different when you've got two directions

1828

01:15:33,839 --> 01:15:31,570

in 26 yeah you're having a third

1829

01:15:35,729 --> 01:15:33,849

dimension in that well if you're in

1830

01:15:37,739 --> 01:15:35,739

Melbourne nearly all junctions are 90

1831

01:15:39,660 --> 01:15:37,749

degrees so that's fairly difficult but

1832

01:15:41,430 --> 01:15:39,670

in Sydney of course streets needed all

1833

01:15:43,859 --> 01:15:41,440

sorts of different angles so it's even

1834

01:15:46,739 --> 01:15:43,869

more complicated so big farmer can you

1835

01:15:48,930 --> 01:15:46,749

read out what Michael Tao brick Junction

1836

01:15:52,709 --> 01:15:48,940

maker had to say about this topic my old

1837

01:15:55,020 --> 01:15:52,719

foul the brick junction maker says some

1838

01:15:58,140 --> 01:15:55,030

people may call me a bad parent for not

1839

01:16:01,200 --> 01:15:58,150

have my children vaccinated other people

1840

01:16:03,689 --> 01:16:01,210

may call me an irresponsible but

1841

01:16:08,370 --> 01:16:03,699

personally I don't see why I can't be

1842

01:16:10,589 --> 01:16:08,380

both thank you to the onion thank you

1843

01:16:12,839 --> 01:16:10,599

ready and thank you everybody for

1844

01:16:14,850 --> 01:16:12,849

enjoying the think tank with us tonight

1845

01:16:17,910 --> 01:16:14,860

out there listening and thank you to all

1846

01:16:20,729 --> 01:16:17,920

the tankers here with me today and thank

1847

01:16:44,100 --> 01:16:20,739

you once again to down for your generous

1848

01:16:47,609 --> 01:16:46,560

hi Phil Plait from Bad Astronomy calm

1849

01:16:50,010 --> 01:16:47,619

and the James Randi Educational

1850

01:16:51,870 --> 01:16:50,020

Foundation here if you want to get an

1851

01:16:54,030 --> 01:16:51,880

American take on things like moon

1852

01:16:56,129 --> 01:16:54,040

hoaxers astrology chiropractors

1853

01:16:57,959 --> 01:16:56,139

creationists anti-vaxxers global warming

1854

01:16:59,850 --> 01:16:57,969

denialists homeopaths psychics UFO

1855

01:17:03,660 --> 01:16:59,860

believers and doom Criers of any flavor

1856

01:17:06,720 --> 01:17:03,670

then go to bad astronomy calm Randy org

1857

01:17:08,760 --> 01:17:06,730

or skeptic blog org and there you'll be

1858

01:17:10,590 --> 01:17:08,770

able to read me ranting railing frothing

1859

01:17:13,080 --> 01:17:10,600

and foaming about hoaxes nonsense

1860

01:17:28,790 --> 01:17:13,090

pseudoscience anti science and anyone

1861

01:17:34,379 --> 01:17:32,939

and there we have it another show I'll

1862

01:17:36,930 --> 01:17:34,389

be very much looking forward to getting

1863

01:17:39,270 --> 01:17:36,940

my co-host back next week when his vocal

1864

01:17:41,640 --> 01:17:39,280

cards recover and we'll do it all again

1865

01:17:43,410 --> 01:17:41,650

this is the skeptic zone thanks for

1866

01:17:45,090 --> 01:17:43,420

listening be getting some great reviews

1867

01:17:46,859 --> 01:17:45,100

and coverage for all the stuff that

1868

01:17:48,149 --> 01:17:46,869

we've been doing lately and definitely

1869

01:17:50,250 --> 01:17:48,159

thanks to Richard for all the wonderful

1870

01:17:52,950 --> 01:17:50,260

effort he's been doing but will be back

1871

01:17:54,780 --> 01:17:52,960

next week and Richard will be back too

1872

01:17:59,000 --> 01:17:54,790

so we'll look forward to that thanks for

1873

01:18:05,430 --> 01:18:01,410

you've been listening to the skeptic

1874

01:18:09,180 --> 01:18:05,440

zone visit our website at [www.skeptics](http://www.skeptics)

1875

01:18:11,770 --> 01:18:09,190

on TV for comments contacts and extra

1876

01:18:16,890 --> 01:18:11,780

video reports