

1
00:00:05,960 --> 00:00:13,690
welcome to the skeptic zone the podcast

2
00:00:09,109 --> 00:00:13,689
from Australia for science and reason

3
00:00:22,640 --> 00:00:28,980
hello and welcome to the skeptics are an

4
00:00:25,500 --> 00:00:32,189
episode about 294 I think that's my

5
00:00:28,980 --> 00:00:34,560
lucky number for the eighth of jun 2014

6
00:00:32,189 --> 00:00:37,409
Richard Saunders here with you from

7
00:00:34,560 --> 00:00:39,030
Sydney Australia coming up on this

8
00:00:37,409 --> 00:00:43,169
week's show we're going to kick off with

9
00:00:39,030 --> 00:00:46,920
a Rancic Evan not a QED this time but at

10
00:00:43,170 --> 00:00:49,079
skeptic camp in Manchester and Iran will

11
00:00:46,920 --> 00:00:52,890
give those people and you of course an

12
00:00:49,079 --> 00:00:56,789
oversight I run down a look into a peep

13
00:00:52,890 --> 00:00:58,820
into the goings-on and the story some of

14
00:00:56,789 --> 00:01:01,320
the story behind the Australian skeptics

15
00:00:58,820 --> 00:01:02,219
after that it's a wig in science from

16
00:01:01,320 --> 00:01:04,228
our good friends at the Royal

17
00:01:02,219 --> 00:01:08,310
Institution of Australia do a wonderful

18
00:01:04,228 --> 00:01:10,920
job r-ia us dot org dot a you and then I

19
00:01:08,310 --> 00:01:15,180
interview Theo Clark from Brisbane Theo

20
00:01:10,920 --> 00:01:17,189
Clark has written the second version of

21
00:01:15,180 --> 00:01:22,259
a book called humbug you know this is

22
00:01:17,189 --> 00:01:23,670
all about logical fallacies and mistakes

23
00:01:22,259 --> 00:01:26,219
and arguments and things you know like

24
00:01:23,670 --> 00:01:28,679
the argument from antiquity and the

25
00:01:26,219 --> 00:01:31,228
argument from celebrity in the straw man

26
00:01:28,679 --> 00:01:33,539
argument and the false dichotomy all

27
00:01:31,228 --> 00:01:36,359
those things all those things are

28
00:01:33,539 --> 00:01:38,939
explained in detail in Theo's book

29

00:01:36,359 --> 00:01:41,909
humbug which is a guide to spotting

30
00:01:38,939 --> 00:01:45,469
fallacies and deceptive arguments you

31
00:01:41,909 --> 00:01:50,429
can get humbug online if you go to ww

32
00:01:45,469 --> 00:01:52,049
skeptics field guide dot net download

33
00:01:50,429 --> 00:01:54,179
that book for only a couple of dollars i

34
00:01:52,049 --> 00:01:57,959
think and whack it on to your mobile

35
00:01:54,179 --> 00:01:59,340
device your your iPad or your google pad

36
00:01:57,959 --> 00:02:02,880
or whatever players you have these days

37
00:01:59,340 --> 00:02:05,849
and i must say i find it an invaluable

38
00:02:02,879 --> 00:02:08,519
resource will find out more about humbug

39
00:02:05,849 --> 00:02:10,560
coming up later on in the show and to

40
00:02:08,520 --> 00:02:12,510
round off the show i'm off to skeptics

41
00:02:10,560 --> 00:02:17,810
in the pub here in sydney where I just

42
00:02:12,509 --> 00:02:20,879
sort of well chapter people that's about

43
00:02:17,810 --> 00:02:23,219

sums it up I guess I just run around

44

00:02:20,879 --> 00:02:24,959

with my microphone and just chat to

45

00:02:23,219 --> 00:02:28,710

people about why they've come to

46

00:02:24,959 --> 00:02:30,270

skeptics in the pub and how you too if

47

00:02:28,710 --> 00:02:32,010

you're in the sydney area you can be

48

00:02:30,270 --> 00:02:33,200

involved in skeptics in the pub and even

49

00:02:32,009 --> 00:02:35,509

give a talk and

50

00:02:33,199 --> 00:02:37,429

to round off the show and those people

51

00:02:35,509 --> 00:02:40,939

in Canberra my friends those Canberra

52

00:02:37,430 --> 00:02:42,439

skeptics they're never not busy on the

53

00:02:40,939 --> 00:02:45,050

tour the June there's another tour

54

00:02:42,439 --> 00:02:46,659

coming up stop blaming open-access

55

00:02:45,050 --> 00:02:49,129

what's wrong with scholarly

56

00:02:46,659 --> 00:02:50,930

communication if you're interested in

57

00:02:49,128 --> 00:02:52,639

that sort of talk or you're in the

58
00:02:50,930 --> 00:02:54,920
canberra area and you want to find out

59
00:02:52,639 --> 00:02:57,259
more about the local skeptical seen

60
00:02:54,919 --> 00:03:02,469
under the presidency of Lauren Cochrane

61
00:02:57,259 --> 00:03:04,729
run to Canberra skeptics org a you

62
00:03:02,469 --> 00:03:06,620
always something going on with the

63
00:03:04,729 --> 00:03:07,879
camera skeptics huh certainly take my

64
00:03:06,620 --> 00:03:09,980
hat off to them but of course they're

65
00:03:07,879 --> 00:03:12,079
not the only active skeptics around the

66
00:03:09,979 --> 00:03:15,530
country there's also the Mahdi Alex

67
00:03:12,079 --> 00:03:18,290
skeptics down just south of melbourne

68
00:03:15,530 --> 00:03:23,269
you can find them at meet up more tea m

69
00:03:18,289 --> 00:03:25,759
0 rd I skeptics check them out and don't

70
00:03:23,269 --> 00:03:28,219
forget coming up next month is bris

71
00:03:25,759 --> 00:03:29,750
skeptic camp skeptic camp in Brisbane

72
00:03:28,219 --> 00:03:31,359
actually there's a little bit more

73
00:03:29,750 --> 00:03:34,400
information about that coming up

74
00:03:31,360 --> 00:03:36,410
somewhere in today's show now for you

75
00:03:34,400 --> 00:03:39,769
people who subscribe to the skeptic

76
00:03:36,409 --> 00:03:41,750
magazine ah it's in the post I've been

77
00:03:39,769 --> 00:03:43,760
told it's in the post as we speak but of

78
00:03:41,750 --> 00:03:46,699
course if you subscribe to the digital

79
00:03:43,759 --> 00:03:49,638
copy I'm sure you're sitting back and

80
00:03:46,699 --> 00:03:51,349
enjoying your magazine well I hope

81
00:03:49,639 --> 00:03:52,519
you're taking out time to listen to the

82
00:03:51,349 --> 00:03:53,900
skeptics own and then get straight back

83
00:03:52,519 --> 00:03:57,319
to the magazine where you can read a

84
00:03:53,900 --> 00:03:59,719
report by Joe alabaster report by me

85
00:03:57,318 --> 00:04:02,419
about the paranormal convention and all

86

00:03:59,719 --> 00:04:04,159
sorts of other goodies if you want to

87
00:04:02,419 --> 00:04:06,169
subscribe to the skeptic magazine and I

88
00:04:04,159 --> 00:04:10,699
sincerely hope you do just go to

89
00:04:06,169 --> 00:04:13,849
skeptics.com.au / publications to find

90
00:04:10,699 --> 00:04:15,318
out more there's even an article oh yes

91
00:04:13,849 --> 00:04:17,409
there's even an article by Heidi

92
00:04:15,318 --> 00:04:20,858
Robinson from the Northern Rivers

93
00:04:17,410 --> 00:04:25,610
vaccination supporters Northern Rivers

94
00:04:20,858 --> 00:04:29,299
vaccination supporters dot org hello

95
00:04:25,610 --> 00:04:33,348
Heidi hello Charlie hello Hugo but for

96
00:04:29,300 --> 00:04:36,259
now it's time for me to oh hello hello

97
00:04:33,348 --> 00:04:39,319
Fred are you going to mouth for the

98
00:04:36,259 --> 00:04:42,709
people this week knowings going to run

99
00:04:39,319 --> 00:04:44,629
away instead and sit down hmm typical

100
00:04:42,709 --> 00:04:45,769

cut but for now I'm going to run

101

00:04:44,629 --> 00:04:48,079
downstairs give

102

00:04:45,769 --> 00:04:49,939
to cut a pat on the head on the way open

103

00:04:48,079 --> 00:04:52,848
up the fridge get out that waffle mix

104

00:04:49,939 --> 00:04:54,829
make myself up a batch of waffles with

105

00:04:52,848 --> 00:04:58,810
maple syrup and while I'm doing that I

106

00:04:54,829 --> 00:04:58,810
hope you enjoy the skeptics am

107

00:05:14,199 --> 00:05:30,529
little take this with a grain of salt

108

00:05:16,810 --> 00:05:32,810
he's around first want to build on

109

00:05:30,529 --> 00:05:36,229
something that Marsh said about half day

110

00:05:32,810 --> 00:05:38,329
we strated had something similar a few

111

00:05:36,230 --> 00:05:39,860
years ago we didn't to the marsh said

112

00:05:38,329 --> 00:05:41,870
you want to do it in London because it's

113

00:05:39,860 --> 00:05:44,389
easy to get to in the population density

114

00:05:41,870 --> 00:05:47,180
we chose a spot that is about halfway

115
00:05:44,389 --> 00:05:48,979
between Sydney and Melbourne and equally

116
00:05:47,180 --> 00:05:51,949
difficult to get to for both of those

117
00:05:48,980 --> 00:05:54,319
days just to make sure that nobody is

118
00:05:51,949 --> 00:05:56,930
offended so Australia's skeptics

119
00:05:54,319 --> 00:05:59,779
festival a bit of a primer on Australian

120
00:05:56,930 --> 00:06:01,699
skeptics the story skeptics is a not a

121
00:05:59,779 --> 00:06:03,079
single organization there is an

122
00:06:01,699 --> 00:06:04,729
organization called Australian skeptics

123
00:06:03,079 --> 00:06:07,279
Inc that is the group in New South Wales

124
00:06:04,730 --> 00:06:10,759
the group that I belong to and was the

125
00:06:07,279 --> 00:06:14,149
former president of we are the de facto

126
00:06:10,759 --> 00:06:15,740
national national body but we are not

127
00:06:14,149 --> 00:06:17,659
the only ones and we do work in

128
00:06:15,740 --> 00:06:19,250
collaboration with groups across the

129
00:06:17,660 --> 00:06:21,920
various states and territories in

130
00:06:19,250 --> 00:06:24,829
Australia when I speak about Australian

131
00:06:21,920 --> 00:06:25,939
skeptics I'm not speaking just about the

132
00:06:24,829 --> 00:06:27,439
organization use of worlds caught

133
00:06:25,939 --> 00:06:29,300
Australian skeptics although it's

134
00:06:27,439 --> 00:06:30,620
primarily about that but I'm talking

135
00:06:29,300 --> 00:06:33,259
about them speaking about all those

136
00:06:30,620 --> 00:06:35,149
different groups and also just skeptics

137
00:06:33,259 --> 00:06:38,990
in Australia who collaborate with us and

138
00:06:35,149 --> 00:06:41,149
work closely with us so we try to be we

139
00:06:38,990 --> 00:06:44,030
try to do as much as possible the

140
00:06:41,149 --> 00:06:46,399
opposite of armchair skepticism p try to

141
00:06:44,029 --> 00:06:48,289
be active and actually do things that

142
00:06:46,399 --> 00:06:49,189
achieve results and I want to talk to

143

00:06:48,290 --> 00:06:50,870
you about a few things that we've done

144
00:06:49,189 --> 00:06:52,310
in recent years just to give you a bit

145
00:06:50,870 --> 00:06:54,470
of a flavor of the kind of things that

146
00:06:52,310 --> 00:06:55,569
we do so the first thing I want to

147
00:06:54,470 --> 00:06:57,279
mention is

148
00:06:55,569 --> 00:06:58,869
the story of ken harvey dr. ken harvey

149
00:06:57,278 --> 00:07:02,168
some of you will have heard of him he's

150
00:06:58,869 --> 00:07:05,169
a professor now retired professor of

151
00:07:02,168 --> 00:07:07,628
Public Health who is a serial

152
00:07:05,168 --> 00:07:09,519
complainant to the TGA which is the

153
00:07:07,629 --> 00:07:11,679
equivalent of the FDR not sure what it

154
00:07:09,519 --> 00:07:13,688
is in the UK but basically it's the

155
00:07:11,678 --> 00:07:18,308
organization the government organization

156
00:07:13,689 --> 00:07:19,869
that controls medicine medicine and he

157
00:07:18,309 --> 00:07:22,330

complains to them about all kinds of

158

00:07:19,869 --> 00:07:24,309

quacks and quackery and he complained

159

00:07:22,329 --> 00:07:26,698

about this company called sense Aslam

160

00:07:24,309 --> 00:07:29,469

who was selling a a slimming solution

161

00:07:26,699 --> 00:07:32,080

that some spray that is supposed to work

162

00:07:29,468 --> 00:07:35,168

in your sleep now he complained about

163

00:07:32,079 --> 00:07:37,978

them based on the available laws they

164

00:07:35,168 --> 00:07:41,049

soon him they sued him for deformation

165

00:07:37,978 --> 00:07:42,968

the wall of the hope the whole process

166

00:07:41,050 --> 00:07:45,038

of the TG is extremely slow it's a very

167

00:07:42,968 --> 00:07:47,439

very weak organization and sorry

168

00:07:45,038 --> 00:07:50,800

unfortunately and during the process of

169

00:07:47,439 --> 00:07:53,889

the TJ working on the complaint sense

170

00:07:50,800 --> 00:07:57,240

Aslam took a sledgehammer to can help me

171

00:07:53,889 --> 00:07:59,918

try to try to silence him by suing him

172
00:07:57,240 --> 00:08:02,468
when we heard about this what we did was

173
00:07:59,918 --> 00:08:05,680
we went on a huge public campaign to

174
00:08:02,468 --> 00:08:08,618
raise funds for his defense and the idea

175
00:08:05,680 --> 00:08:10,538
was that ken harvey must not be a single

176
00:08:08,619 --> 00:08:11,709
cent out of pocket for that kind of

177
00:08:10,538 --> 00:08:13,389
thing because that would send the wrong

178
00:08:11,709 --> 00:08:16,408
message to cracks out there that they

179
00:08:13,389 --> 00:08:19,300
can silence people I can who's it he

180
00:08:16,408 --> 00:08:21,308
there's a guy coming who said that Ken

181
00:08:19,300 --> 00:08:24,788
hobby is our regulatory system he's

182
00:08:21,309 --> 00:08:26,919
responsible for the fact that that there

183
00:08:24,788 --> 00:08:29,680
is some level of control criteria in

184
00:08:26,918 --> 00:08:31,568
Australia so we made a point of making

185
00:08:29,680 --> 00:08:33,430
sure that his expenses were covered and

186
00:08:31,569 --> 00:08:35,680
we've actually had the pledges in about

187
00:08:33,429 --> 00:08:38,948
three weeks we had pledges of about

188
00:08:35,679 --> 00:08:42,458
twenty-five thousand dollars and of

189
00:08:38,948 --> 00:08:44,198
those \$25,000 twenty four thousand

190
00:08:42,458 --> 00:08:46,268
dollars six hundred were actually paid

191
00:08:44,198 --> 00:08:48,849
so these were just pledges but basically

192
00:08:46,269 --> 00:08:49,929
anybody everybody who pledged actually

193
00:08:48,850 --> 00:08:53,560
paid in the end which was a great

194
00:08:49,929 --> 00:08:55,059
success in the end EXT the Ken 3 costs

195
00:08:53,559 --> 00:08:57,879
for something like forty two thousand

196
00:08:55,059 --> 00:09:00,129
dollars and I think we raised from the

197
00:08:57,879 --> 00:09:01,750
public something like 37 or 38 thousand

198
00:09:00,129 --> 00:09:04,539
dollars and we have straightens kept

199
00:09:01,750 --> 00:09:06,070
hey paid the rest and we just made sure

200

00:09:04,539 --> 00:09:08,110
that he was not a of course we

201
00:09:06,070 --> 00:09:09,760
made a big big deal out of it to send

202
00:09:08,110 --> 00:09:11,259
this very strong message that we are not

203
00:09:09,759 --> 00:09:13,480
going to make when we're not going to

204
00:09:11,259 --> 00:09:15,639
allow people like census lim who were

205
00:09:13,480 --> 00:09:17,560
backed by the way by very very notorious

206
00:09:15,639 --> 00:09:18,490
conmen Peter Foster which someone who

207
00:09:17,559 --> 00:09:21,009
will have heard of because he was

208
00:09:18,490 --> 00:09:23,590
related to it was had some hanky-panky

209
00:09:21,009 --> 00:09:24,819
with the Cherie Blair and the housing

210
00:09:23,590 --> 00:09:26,530
and something I'm not sure exactly of

211
00:09:24,820 --> 00:09:29,110
the details but he's a known comment he

212
00:09:26,529 --> 00:09:31,240
was behind this thing and the great

213
00:09:29,110 --> 00:09:35,110
thing was that we had conventionally

214
00:09:31,240 --> 00:09:37,570

2011 with we go got ken harvey somebody

215

00:09:35,110 --> 00:09:39,399

from consumer watchdog the government

216

00:09:37,570 --> 00:09:41,080

consumer watchdog somebody from the TGA

217

00:09:39,399 --> 00:09:44,019

senior guy from the TG at the head of

218

00:09:41,080 --> 00:09:46,000

the TGA all on stage together in a panel

219

00:09:44,019 --> 00:09:47,740

and the day before that conference

220

00:09:46,000 --> 00:09:49,179

before that Colonel Peter Foster was

221

00:09:47,740 --> 00:09:53,250

arrested especially for our conference

222

00:09:49,179 --> 00:09:53,250

it was very difficult to arrange but we

223

00:09:53,789 --> 00:09:58,659

be all the things that we met on avian

224

00:09:56,620 --> 00:10:01,960

avian is the Australian vaccination

225

00:09:58,659 --> 00:10:03,370

network we have been working in color

226

00:10:01,960 --> 00:10:05,320

there's been a collaboration of

227

00:10:03,370 --> 00:10:10,350

Australian skeptics and lots of other

228

00:10:05,320 --> 00:10:13,690

groups not most notably group called

229

00:10:10,350 --> 00:10:15,190

stop the avian s avian stop the

230

00:10:13,690 --> 00:10:16,780

Australian vaccination work is that just

231

00:10:15,190 --> 00:10:18,670

a group of concerned citizens many of

232

00:10:16,779 --> 00:10:20,350

they are also strengthened members of

233

00:10:18,669 --> 00:10:22,088

Australian skeptics who decided that

234

00:10:20,350 --> 00:10:23,710

this organization needs to be stopped

235

00:10:22,089 --> 00:10:26,800

and he just so happened that these

236

00:10:23,710 --> 00:10:30,759

discrim us started working in parallel

237

00:10:26,799 --> 00:10:33,429

pretty much at the same time about four

238

00:10:30,759 --> 00:10:36,250

years ago now to stop to stop that

239

00:10:33,429 --> 00:10:38,709

organization so we published in some

240

00:10:36,250 --> 00:10:42,009

major newspapers in Australia a letter

241

00:10:38,710 --> 00:10:43,450

about this avian and urging parents to

242

00:10:42,009 --> 00:10:45,220

take the implement the information that

243
00:10:43,450 --> 00:10:47,080
they need about vaccinations not from

244
00:10:45,220 --> 00:10:49,540
the avian but from reputable sources

245
00:10:47,080 --> 00:10:50,650
like the government like their GPS to

246
00:10:49,539 --> 00:10:54,039
make sure that they actually make the

247
00:10:50,649 --> 00:10:57,610
right decision on the same day that our

248
00:10:54,039 --> 00:11:02,169
ad went to the papers a wonderful man by

249
00:10:57,610 --> 00:11:05,620
the name of Ken MacLeod sent a very

250
00:11:02,169 --> 00:11:07,299
well-crafted complaint to the htpc which

251
00:11:05,620 --> 00:11:08,639
the healthcare Complaints Commission in

252
00:11:07,299 --> 00:11:11,519
New South Wales which

253
00:11:08,639 --> 00:11:13,139
is the organization that investigates

254
00:11:11,519 --> 00:11:15,389
complaints about health services

255
00:11:13,139 --> 00:11:16,740
providers he said it very well tough to

256
00:11:15,389 --> 00:11:18,449
complain to them that was investigated

257

00:11:16,740 --> 00:11:20,220
for a long time it's a long story i want

258
00:11:18,450 --> 00:11:22,970
going to the whole story but that was

259
00:11:20,220 --> 00:11:26,129
basically that day was the beginning of

260
00:11:22,970 --> 00:11:28,350
three and a half four years of very very

261
00:11:26,129 --> 00:11:30,509
bad time for the avn one of the major

262
00:11:28,350 --> 00:11:33,750
thing that we've achieved in my opinion

263
00:11:30,509 --> 00:11:34,980
is not a lot of the not just the fact

264
00:11:33,750 --> 00:11:36,360
that they've been for the past three and

265
00:11:34,980 --> 00:11:43,950
a half four years they've been very very

266
00:11:36,360 --> 00:11:47,279
busy dealing with complaints on to do

267
00:11:43,950 --> 00:11:50,430
which is on the public health they were

268
00:11:47,279 --> 00:11:53,129
the major thing we did was we made a

269
00:11:50,429 --> 00:11:55,279
change the way that media perceives the

270
00:11:53,129 --> 00:11:58,230
kind of the anti-vaccination network

271
00:11:55,279 --> 00:12:00,689

instead of being the go-to guys to any

272

00:11:58,230 --> 00:12:02,850
information about about vaccines in the

273

00:12:00,690 --> 00:12:05,040
ones that work that that they go to

274

00:12:02,850 --> 00:12:06,540
provide that false balancing you know

275

00:12:05,039 --> 00:12:09,719
around vaccines you know you invite a

276

00:12:06,539 --> 00:12:12,689
pediatrician and some mum from Bangalore

277

00:12:09,720 --> 00:12:17,519
New South Wales who has as she describes

278

00:12:12,690 --> 00:12:21,180
it has a brain so do cockroaches small

279

00:12:17,519 --> 00:12:24,299
but so instead of talking speaking to

280

00:12:21,179 --> 00:12:27,269
them as vaccine experts there now

281

00:12:24,299 --> 00:12:30,000
referred to universally in the press in

282

00:12:27,269 --> 00:12:31,980
anywhere in the media as auntie vaccine

283

00:12:30,000 --> 00:12:33,720
the anti-vaccine lobbying and that is a

284

00:12:31,980 --> 00:12:36,330
huge achievement for us because that

285

00:12:33,720 --> 00:12:37,950
means that when parents go to their

286
00:12:36,330 --> 00:12:39,780
website when parents hear about them

287
00:12:37,950 --> 00:12:41,940
they already know that these are not

288
00:12:39,779 --> 00:12:43,620
people that you can get credible

289
00:12:41,940 --> 00:12:45,690
information from of course if somebody

290
00:12:43,620 --> 00:12:47,519
is inclined that way and somebody wants

291
00:12:45,690 --> 00:12:49,920
anti-vaccine information for so they'll

292
00:12:47,519 --> 00:12:51,240
find it but at least they know what

293
00:12:49,919 --> 00:12:53,219
they're getting with a name like

294
00:12:51,240 --> 00:12:54,419
Australian vaccination work it sounds

295
00:12:53,220 --> 00:12:56,430
like the infirm it the information you

296
00:12:54,419 --> 00:12:59,429
get from them is credible and only the

297
00:12:56,429 --> 00:13:01,049
last couple of weeks are the they were

298
00:12:59,429 --> 00:13:02,870
ordered by the government by the use of

299
00:13:01,049 --> 00:13:05,179
world government to change their name

300
00:13:02,870 --> 00:13:08,090
unfortunately they change their name to

301
00:13:05,179 --> 00:13:10,829
Australian vaccination skeptics Network

302
00:13:08,090 --> 00:13:13,680
which is not a really not a fantastic

303
00:13:10,830 --> 00:13:15,450
thing for us obviously because it could

304
00:13:13,679 --> 00:13:17,339
create a semblance of a Lincoln we have

305
00:13:15,450 --> 00:13:19,020
been fighting them for a long time but

306
00:13:17,340 --> 00:13:20,220
we've thought about

307
00:13:19,019 --> 00:13:22,049
we've talked to people outside of the

308
00:13:20,220 --> 00:13:23,639
community to try to understand what the

309
00:13:22,049 --> 00:13:26,549
perception is of that and most people

310
00:13:23,639 --> 00:13:28,529
say yeah that appears like they're

311
00:13:26,549 --> 00:13:29,879
against I've seen and that's what we

312
00:13:28,529 --> 00:13:32,159
really want I mean we'll worry about the

313
00:13:29,879 --> 00:13:33,779
name and the word skepticism later but

314

00:13:32,159 --> 00:13:35,909
right now we're sending a very good

315
00:13:33,779 --> 00:13:37,559
message out there that they need to

316
00:13:35,909 --> 00:13:39,539
change the name in parallel to that

317
00:13:37,559 --> 00:13:40,859
they're also being investigated by the

318
00:13:39,539 --> 00:13:42,839
government on several infringement

319
00:13:40,860 --> 00:13:44,190
financial arrangements that the

320
00:13:42,840 --> 00:13:46,470
information that they spread around

321
00:13:44,190 --> 00:13:49,170
vaccines Steve illegal they have to

322
00:13:46,470 --> 00:13:51,029
change that there was a big report about

323
00:13:49,169 --> 00:13:52,889
information that appears on their

324
00:13:51,029 --> 00:13:56,250
website and basically on every single

325
00:13:52,889 --> 00:14:00,120
item attended work with remove and never

326
00:13:56,250 --> 00:14:01,620
put back this information so there's not

327
00:14:00,120 --> 00:14:04,230
going to be much left on the website

328
00:14:01,620 --> 00:14:06,330

after they lament this and the

329

00:14:04,230 --> 00:14:07,889
organization the H people see the

330

00:14:06,330 --> 00:14:09,840
organization that put out that report

331

00:14:07,889 --> 00:14:12,750
was so confident that they're not going

332

00:14:09,840 --> 00:14:14,490
to comply that they've already phrased

333

00:14:12,750 --> 00:14:16,860
in the report that phrase the public

334

00:14:14,490 --> 00:14:22,590
warning that they're going to put up

335

00:14:16,860 --> 00:14:24,480
after this doesn't work he'll funds so

336

00:14:22,590 --> 00:14:28,950
there is a problem in Australia in

337

00:14:24,480 --> 00:14:32,310
Australia this Medicare which is its

338

00:14:28,950 --> 00:14:34,800
public it's a public health service so

339

00:14:32,309 --> 00:14:37,199
we all pay pay for it through our taxes

340

00:14:34,799 --> 00:14:39,299
in the go to the you can go to the gb

341

00:14:37,200 --> 00:14:42,240
for free or almost 43 a lot of

342

00:14:39,299 --> 00:14:45,929
medication subsidized in addition a lot

343
00:14:42,240 --> 00:14:47,100
of people have public health insurance

344
00:14:45,929 --> 00:14:49,559
and that public health insurance is

345
00:14:47,100 --> 00:14:51,570
partially paid for by the public through

346
00:14:49,559 --> 00:14:53,179
a rebate that the health funds are

347
00:14:51,570 --> 00:14:55,709
received from the government now the

348
00:14:53,179 --> 00:15:02,349
woods Mike what's my time like

349
00:14:55,708 --> 00:15:04,028
ok so the those health funds get some

350
00:15:02,350 --> 00:15:06,490
money from the government unfortunately

351
00:15:04,028 --> 00:15:09,509
those health funds also provide we are

352
00:15:06,490 --> 00:15:11,980
reinsurance that the covers things like

353
00:15:09,509 --> 00:15:15,009
chiropractic and the APPA the--and all

354
00:15:11,980 --> 00:15:18,159
in all kinds of massages there are being

355
00:15:15,009 --> 00:15:20,528
some of them are actually okay but some

356
00:15:18,159 --> 00:15:22,328
of them are really not and and that is

357
00:15:20,528 --> 00:15:25,269
something that we've for a long time be

358
00:15:22,328 --> 00:15:26,588
trying to get the health funds to not do

359
00:15:25,269 --> 00:15:28,089
to provide the leases you know make it

360
00:15:26,589 --> 00:15:30,279
optional don't don't give it to any

361
00:15:28,089 --> 00:15:32,050
don't give it to me I don't want to use

362
00:15:30,278 --> 00:15:33,850
them don't put chiropractic on my

363
00:15:32,049 --> 00:15:36,309
insurance i'm not going to use it and

364
00:15:33,850 --> 00:15:38,278
basically they said look it's going to

365
00:15:36,309 --> 00:15:42,129
cost you more to have your own custom

366
00:15:38,278 --> 00:15:44,528
policy so so it hasn't be working very

367
00:15:42,129 --> 00:15:47,320
well fortunately because of the because

368
00:15:44,528 --> 00:15:49,088
of the fact that the public pays for

369
00:15:47,320 --> 00:15:52,050
these services the government got onto

370
00:15:49,089 --> 00:15:54,760
it and we've been able to get the

371

00:15:52,049 --> 00:15:56,409
organization called NHMRC National

372
00:15:54,759 --> 00:15:58,629
Health and Medical Research Council to

373
00:15:56,409 --> 00:16:00,909
investigate and together they've come up

374
00:15:58,629 --> 00:16:05,289
with a list of services that the health

375
00:16:00,909 --> 00:16:06,818
funds cannot provide funds to and it's

376
00:16:05,289 --> 00:16:09,370
this whole thing is not yet finished

377
00:16:06,818 --> 00:16:11,198
there is an internist determination but

378
00:16:09,370 --> 00:16:12,789
it's not yet complete but me you can be

379
00:16:11,198 --> 00:16:14,948
sure that chiropractic is not going to

380
00:16:12,789 --> 00:16:16,389
be there that homeopathy is definitely

381
00:16:14,948 --> 00:16:17,439
not going to be there this is going to

382
00:16:16,389 --> 00:16:20,198
be a lot of other things that are not

383
00:16:17,440 --> 00:16:23,019
going to be there another thing we've

384
00:16:20,198 --> 00:16:24,759
since I've mentioned in H&M RC I want to

385
00:16:23,019 --> 00:16:28,120

mention that the they've investigated

386

00:16:24,759 --> 00:16:29,889

homeopathy and only couple days ago came

387

00:16:28,120 --> 00:16:32,159

up with a scathing paper about

388

00:16:29,889 --> 00:16:32,159

homeopathy

389

00:16:32,339 --> 00:16:41,490

absolutely basically says doesn't work

390

00:16:37,249 --> 00:16:44,909

just like a website that how does it

391

00:16:41,490 --> 00:16:46,169

work how does nobody will get one last

392

00:16:44,909 --> 00:16:49,669

thing I want to mention is that we've

393

00:16:46,169 --> 00:16:52,349

done some research into universities

394

00:16:49,669 --> 00:16:55,409

teaching all cut all kinds of all modes

395

00:16:52,350 --> 00:16:57,028

of quackery and unfortunately they were

396

00:16:55,409 --> 00:16:58,799

quite early there was quite a lot of

397

00:16:57,028 --> 00:17:00,600

that they were mean some universities

398

00:16:58,799 --> 00:17:01,948

were worse than others but it was it was

399

00:17:00,600 --> 00:17:04,159

quite common for universities to offer

400
00:17:01,948 --> 00:17:06,209
all kinds of courses in factory now

401
00:17:04,159 --> 00:17:09,149
there's this constant argument about

402
00:17:06,209 --> 00:17:10,500
whether quite o issue or alternative

403
00:17:09,148 --> 00:17:12,269
medicine should be researched and

404
00:17:10,500 --> 00:17:14,669
absolutely it should be research but you

405
00:17:12,269 --> 00:17:16,139
should not be taught before it's recent

406
00:17:14,669 --> 00:17:17,970
and I think the problem is that in a lot

407
00:17:16,140 --> 00:17:19,860
of those universities it's not the

408
00:17:17,970 --> 00:17:22,350
research problem that a research program

409
00:17:19,859 --> 00:17:24,058
that's the problem it's they it's the

410
00:17:22,349 --> 00:17:26,969
teaching of things that do not have

411
00:17:24,058 --> 00:17:29,398
foundation in science or foundational

412
00:17:26,970 --> 00:17:32,700
evidence that is the problem for example

413
00:17:29,398 --> 00:17:35,548
RMIT University teach they have a very

414
00:17:32,700 --> 00:17:37,500
large Faculty of chiropractic and as

415
00:17:35,548 --> 00:17:40,558
part of that faculty they have a

416
00:17:37,500 --> 00:17:44,519
children's car back to clinic so their

417
00:17:40,558 --> 00:17:46,379
students treat treat kids with

418
00:17:44,519 --> 00:17:48,629
chiropractic which is very disturbing

419
00:17:46,380 --> 00:17:50,309
now we've done that message and that

420
00:17:48,630 --> 00:17:53,520
research was published in two parts in

421
00:17:50,308 --> 00:17:56,759
our magazine the skeptic and which is

422
00:17:53,519 --> 00:17:59,398
the second-oldest skeptical stick a

423
00:17:56,759 --> 00:18:02,788
skeptical magazine in world be published

424
00:17:59,398 --> 00:18:06,178
since 1980 and as a result of that

425
00:18:02,788 --> 00:18:08,369
several prominent health professionals

426
00:18:06,179 --> 00:18:10,500
have established an organization called

427
00:18:08,369 --> 00:18:13,648
Friends of science and medicine they

428

00:18:10,500 --> 00:18:15,119
call it fsm and they're too old to

429
00:18:13,648 --> 00:18:16,949
realize that that's going to be a

430
00:18:15,119 --> 00:18:18,298
problem for them but anyway they've

431
00:18:16,950 --> 00:18:20,278
established this organization and now

432
00:18:18,298 --> 00:18:22,259
this organization has something like

433
00:18:20,278 --> 00:18:25,109
1,200 members and those members are

434
00:18:22,259 --> 00:18:28,950
largely health professional scientists

435
00:18:25,109 --> 00:18:31,829
public health advocates and all of those

436
00:18:28,950 --> 00:18:33,269
people are now fairly large and

437
00:18:31,829 --> 00:18:35,428
influential group of people who will

438
00:18:33,269 --> 00:18:37,798
press the government push the government

439
00:18:35,429 --> 00:18:39,778
to make the right decisions the right

440
00:18:37,798 --> 00:18:40,750
letters first of all they pee a method

441
00:18:39,778 --> 00:18:43,299
all of them have

442
00:18:40,750 --> 00:18:47,049

all kinds of titles from be from the

443

00:18:43,299 --> 00:18:49,119

governor-general not quite nice with but

444

00:18:47,049 --> 00:18:50,169

you know somewhere else on the lower run

445

00:18:49,119 --> 00:18:51,309

you know we're still and we are a

446

00:18:50,170 --> 00:18:54,009

monarchy in Australia you do know that

447

00:18:51,309 --> 00:18:55,569

by so so we had they they're quite

448

00:18:54,009 --> 00:18:57,069

prominent people all of them and they

449

00:18:55,569 --> 00:18:58,720

have access to the press they have

450

00:18:57,069 --> 00:19:01,149

access to the government and actually

451

00:18:58,720 --> 00:19:04,990

make quite a lot of difference and we we

452

00:19:01,150 --> 00:19:06,910

do see how they're able to through their

453

00:19:04,990 --> 00:19:08,769

contacts through their context of the

454

00:19:06,910 --> 00:19:11,470

universities to actually make make a

455

00:19:08,769 --> 00:19:14,619

difference it is now at a stage where

456

00:19:11,470 --> 00:19:16,809

most universities are really hesitant

457
00:19:14,619 --> 00:19:19,659
when they when he comes to teaching all

458
00:19:16,809 --> 00:19:21,609
kind all kinds of modes of alternative

459
00:19:19,660 --> 00:19:22,990
medicine to the point where the the

460
00:19:21,609 --> 00:19:24,129
largest chiropractic program in

461
00:19:22,990 --> 00:19:25,359
Australia in terms of the number of

462
00:19:24,130 --> 00:19:27,400
students going through at Macquarie

463
00:19:25,359 --> 00:19:30,309
University in Sydney they've decided to

464
00:19:27,400 --> 00:19:31,810
dispose of it actually they've sold the

465
00:19:30,309 --> 00:19:34,299
problems with some other university a

466
00:19:31,809 --> 00:19:36,639
lower-end university that they've all

467
00:19:34,299 --> 00:19:39,009
see a nervous he had what was it that

468
00:19:36,640 --> 00:19:41,800
they said that the reason was the

469
00:19:39,009 --> 00:19:43,450
research outputs you know they have to

470
00:19:41,799 --> 00:19:45,460
focus on research output of other

471
00:19:43,450 --> 00:19:46,809
programs the reality is that if it's

472
00:19:45,460 --> 00:19:48,370
research output that problem should have

473
00:19:46,809 --> 00:19:50,440
been scrapped and scrapped a long time

474
00:19:48,369 --> 00:19:52,569
ago because the research output of the

475
00:19:50,440 --> 00:19:54,610
chiropractic program is basically nil

476
00:19:52,569 --> 00:19:58,210
over the 30 years they've had it at

477
00:19:54,609 --> 00:19:59,259
Macquarie University the one last thing

478
00:19:58,210 --> 00:20:00,819
I want to mention about Australian

479
00:19:59,259 --> 00:20:03,430
skeptics is not about something that we

480
00:20:00,819 --> 00:20:05,200
do but I bought our approach I mentioned

481
00:20:03,430 --> 00:20:07,750
earlier it's not our church skepticism

482
00:20:05,200 --> 00:20:09,100
it's about it's about activism it's

483
00:20:07,750 --> 00:20:10,410
about getting things done it's about

484
00:20:09,099 --> 00:20:13,149
where we can be most effective

485

00:20:10,410 --> 00:20:15,370
definitely try to avoid political games

486
00:20:13,150 --> 00:20:17,410
within the organization in between us

487
00:20:15,369 --> 00:20:21,239
and other groups and it's been working

488
00:20:17,410 --> 00:20:21,240
very well thank you very much

489
00:20:30,099 --> 00:20:40,928
hold tight so I don't worry

490
00:20:42,368 --> 00:20:53,298
how fast are you acting for people with

491
00:20:49,068 --> 00:20:56,028
this case definitely definitely see more

492
00:20:53,298 --> 00:20:58,519
people at our events so it's it is

493
00:20:56,028 --> 00:21:00,709
growing and more importantly we're

494
00:20:58,519 --> 00:21:04,338
seeing a lot more of the younger

495
00:21:00,709 --> 00:21:05,808
generation at all events we definitely

496
00:21:04,338 --> 00:21:08,778
not it's not reflecting membership

497
00:21:05,808 --> 00:21:11,269
though our membership is basically a

498
00:21:08,778 --> 00:21:13,459
subscription to the magazine and that's

499
00:21:11,269 --> 00:21:14,989

actually not growing in any significant

500

00:21:13,459 --> 00:21:17,328

ways so but we're definitely seeing a

501

00:21:14,989 --> 00:21:20,239

lot a lot of you skeptics in the pub we

502

00:21:17,328 --> 00:21:24,769

regularly regularly get some say in

503

00:21:20,239 --> 00:21:26,838

Sydney 50 to 80 people that's the

504

00:21:24,769 --> 00:21:30,128

regular number and that's just in Sydney

505

00:21:26,838 --> 00:21:32,598

this in this equivalent in other cities

506

00:21:30,128 --> 00:21:34,638

about how the people are not subscribers

507

00:21:32,598 --> 00:21:37,519

and not members of the organization it

508

00:21:34,638 --> 00:21:39,318

look we would prefer that there were but

509

00:21:37,519 --> 00:21:45,108

that's not you know the more things that

510

00:21:39,318 --> 00:21:47,418

they're active in a new city I am very

511

00:21:45,108 --> 00:21:49,688

very aware but they also ain't get one

512

00:21:47,419 --> 00:21:55,729

of the best organized and the best

513

00:21:49,689 --> 00:21:58,140

actress in 17 as a whole he said wheres

514
00:21:55,729 --> 00:22:01,019
effective Denver sense

515
00:21:58,140 --> 00:22:05,060
I'm watching from America or anything to

516
00:22:01,019 --> 00:22:08,819
do i just want to point out fabulous

517
00:22:05,059 --> 00:22:12,210
organization please just fifth time them

518
00:22:08,819 --> 00:22:16,109
and learn from them and by first vice

519
00:22:12,210 --> 00:22:19,170
versa it is a generation canvas amazing

520
00:22:16,109 --> 00:22:22,049
people the settings of podcast is a

521
00:22:19,170 --> 00:22:25,080
wonderful resource by Richard Saunders

522
00:22:22,049 --> 00:22:28,259
and I took me just intuitively there are

523
00:22:25,079 --> 00:22:39,480
other my path that make people lose me

524
00:22:28,259 --> 00:22:40,829
to to get that bill by mile sorry oh no

525
00:22:39,480 --> 00:22:43,920
I couldn't really i must admit that

526
00:22:40,829 --> 00:22:49,829
because of my i actually have a thing

527
00:22:43,920 --> 00:22:51,900
called job work is the fall of the word

528
00:22:49,829 --> 00:22:56,129
by the way i don't usually like comments

529
00:22:51,900 --> 00:22:57,509
in this say but I like that one so no I

530
00:22:56,130 --> 00:23:00,180
think this capstone will never lead

531
00:22:57,509 --> 00:23:02,549
almost the official official podcast of

532
00:23:00,180 --> 00:23:04,500
of the step of Australian skeptics and

533
00:23:02,549 --> 00:23:06,419
definitely will know about everything

534
00:23:04,500 --> 00:23:09,390
that we do if you listen to the skeptics

535
00:23:06,420 --> 00:23:12,240
skeptics on podcast and I will be

536
00:23:09,390 --> 00:23:14,759
speaking to many of you on on on record

537
00:23:12,240 --> 00:23:18,569
doing this we can to you know for the

538
00:23:14,759 --> 00:23:20,549
stepping on for us and you can you can

539
00:23:18,569 --> 00:23:22,439
subscribe to a digital but sending in

540
00:23:20,549 --> 00:23:24,089
sending a print version is actually

541
00:23:22,440 --> 00:23:26,779
quite expensive but it's possible to get

542

00:23:24,089 --> 00:23:29,490
a digital subscription to our magazine

543
00:23:26,779 --> 00:23:30,930
where you will also learn a lot a lot

544
00:23:29,490 --> 00:23:32,460
about what we do and we have a website

545
00:23:30,930 --> 00:23:33,650
that's quite active and we always have

546
00:23:32,460 --> 00:24:01,160
used their stories

547
00:23:33,650 --> 00:24:04,160
oh hello dear skeptical ninjas my name

548
00:24:01,160 --> 00:24:06,529
is Jake Peralta and my name is russ bolt

549
00:24:04,160 --> 00:24:10,070
and we are here to talk to you about

550
00:24:06,529 --> 00:24:12,500
breeze skeptic amp which is coming up in

551
00:24:10,069 --> 00:24:14,569
July so who is speaking out Bruce give

552
00:24:12,500 --> 00:24:17,000
de Kamp will take you and I will be

553
00:24:14,569 --> 00:24:19,490
there as hosts as hosts and also

554
00:24:17,000 --> 00:24:21,769
recording the podcast a podcast right

555
00:24:19,490 --> 00:24:24,380
and we've got John Cook from skeptical

556
00:24:21,769 --> 00:24:26,809

science com well we've got Theo Clark

557

00:24:24,380 --> 00:24:28,700

who does hunting humbug podcast and also

558

00:24:26,809 --> 00:24:30,919

the skeptics field guide that is amazing

559

00:24:28,700 --> 00:24:32,600

and Loretta marron from friends of

560

00:24:30,920 --> 00:24:34,880

science and medicine that is fantastic

561

00:24:32,599 --> 00:24:37,219

and if all of that sounded too amazing

562

00:24:34,880 --> 00:24:39,920

we have a whole host of local skeptics

563

00:24:37,220 --> 00:24:41,480

in the brisbane area so if i call neo do

564

00:24:39,920 --> 00:24:43,279

i also get a free set of steak knives

565

00:24:41,480 --> 00:24:46,039

well i would be quite skeptical of that

566

00:24:43,279 --> 00:24:48,200

claim jack so how can I find out more

567

00:24:46,039 --> 00:24:50,539

about brisket again you can go to

568

00:24:48,200 --> 00:24:53,240

brisket to camp org that was an

569

00:24:50,539 --> 00:24:55,970

advantageous Lee made web domain name I

570

00:24:53,240 --> 00:24:59,870

dare say yes and when is red skeptic in

571
00:24:55,970 --> 00:25:01,789
July 19th this year so July 19th this

572
00:24:59,869 --> 00:25:03,799
year and it's free it's a completely

573
00:25:01,789 --> 00:25:05,659
free completely free yeah with a free

574
00:25:03,799 --> 00:25:08,720
set of steak knives as well I would

575
00:25:05,660 --> 00:25:13,000
continue to be skeptical so go to brisk

576
00:25:08,720 --> 00:25:13,000
aftercare god org right now

577
00:25:19,048 --> 00:25:23,888
welcome to a week in science from arias

578
00:25:21,848 --> 00:25:27,968
bringing you the science you need to

579
00:25:23,888 --> 00:25:30,548
know June the sixth 1944 was d-day the

580
00:25:27,969 --> 00:25:32,200
Allied invasion of Europe and they had a

581
00:25:30,548 --> 00:25:38,469
little bit of Science and Technology on

582
00:25:32,200 --> 00:25:40,450
their side a whole range of modified

583
00:25:38,469 --> 00:25:43,179
tanks were developed for specific jobs

584
00:25:40,450 --> 00:25:46,210
during d-day and the later invasion of

585
00:25:43,179 --> 00:25:48,580
Europe known as Hobart's funnies they

586
00:25:46,210 --> 00:25:50,588
included the crocodile a tank with a

587
00:25:48,579 --> 00:25:54,638
flame thrower instead of a machine gun

588
00:25:50,588 --> 00:25:57,638
AV re or armored vehicle Royal Engineers

589
00:25:54,638 --> 00:26:00,699
had a heavy mortar on board capable of

590
00:25:57,638 --> 00:26:04,808
firing an 18 kilo projectile filled with

591
00:26:00,700 --> 00:26:07,239
high explosives around 137 meters there

592
00:26:04,808 --> 00:26:09,190
were tanks that laid a canvas road to

593
00:26:07,239 --> 00:26:11,889
prevent following vehicles from getting

594
00:26:09,190 --> 00:26:15,009
bogged others that carried bundles of

595
00:26:11,888 --> 00:26:17,168
poles to instantly fill in ditches tanks

596
00:26:15,009 --> 00:26:19,778
that carried a 9 meter bridge in front

597
00:26:17,169 --> 00:26:22,389
of them and even a drive over tank with

598
00:26:19,778 --> 00:26:24,548
extendable ramps fore-and-aft that could

599

00:26:22,388 --> 00:26:28,538
be driven into a hole to provide a road

600
00:26:24,548 --> 00:26:30,700
for other traffic the science of

601
00:26:28,538 --> 00:26:33,308
deception was crucial to the success of

602
00:26:30,700 --> 00:26:35,469
the d-day landings three separate

603
00:26:33,308 --> 00:26:37,710
operations were mounted that created

604
00:26:35,469 --> 00:26:40,570
false impressions of invading amardas

605
00:26:37,710 --> 00:26:43,028
squadrons of bombers flying to split

606
00:26:40,569 --> 00:26:45,278
second schedules drop strips of

607
00:26:43,028 --> 00:26:47,648
aluminium foil in patterns that

608
00:26:45,278 --> 00:26:50,048
exploited a weakness in the German radar

609
00:26:47,648 --> 00:26:53,168
network the foil would show up on the

610
00:26:50,048 --> 00:26:56,048
enemy screens as huge advancing fleets

611
00:26:53,169 --> 00:26:58,179
of ships that didn't exist these

612
00:26:56,048 --> 00:27:00,398
deceptions were backed up by a small

613
00:26:58,179 --> 00:27:02,859

flotilla of boats carrying radio sets

614

00:27:00,398 --> 00:27:05,588

that created the volume of radio traffic

615

00:27:02,858 --> 00:27:08,168

expected from an invading fleet at least

616

00:27:05,588 --> 00:27:10,058

one of these three operations appears to

617

00:27:08,169 --> 00:27:12,339

have fooled the Germans into preparing

618

00:27:10,058 --> 00:27:15,759

for an attack that never happened and

619

00:27:12,338 --> 00:27:17,898

now for fast facts about d-day science

620

00:27:15,759 --> 00:27:20,878

and technology

621

00:27:17,898 --> 00:27:23,308

large gliders known as hamill cars

622

00:27:20,878 --> 00:27:26,218

carried heavy payloads including small

623

00:27:23,308 --> 00:27:28,618

tanks they had a wingspan of 33 and a

624

00:27:26,219 --> 00:27:31,078

half meters and weighed almost six and a

625

00:27:28,618 --> 00:27:33,328

half Tom's distinctive black and white

626

00:27:31,078 --> 00:27:35,249

stripes were painted on all Allied

627

00:27:33,328 --> 00:27:37,440

aircraft to make them readily

628
00:27:35,249 --> 00:27:40,379
recognizable so they wouldn't be shot

629
00:27:37,440 --> 00:27:42,659
down by Allied forces dummies dressed in

630
00:27:40,378 --> 00:27:44,878
full paratrooper uniforms known as

631
00:27:42,659 --> 00:27:47,099
Rupert's were dropped with real

632
00:27:44,878 --> 00:27:48,958
paratroopers east of the invasion zone

633
00:27:47,098 --> 00:27:51,989
to create the illusion of a large

634
00:27:48,959 --> 00:27:54,359
airborne attack and invading troops were

635
00:27:51,989 --> 00:27:56,669
all issued with condoms but they were

636
00:27:54,358 --> 00:27:59,519
used to keep water out of rifle barrels

637
00:27:56,669 --> 00:28:01,799
that's it for this a week in science for

638
00:27:59,519 --> 00:28:05,190
more information on d-day science and

639
00:28:01,798 --> 00:28:09,388
technology go to the Arias website RI au

640
00:28:05,190 --> 00:28:13,349
s dot org a you follow us on Twitter and

641
00:28:09,388 --> 00:28:14,968
are I oz and like us on Facebook I'm

642
00:28:13,348 --> 00:28:21,450
Paul Willis and we'll catch you here

643
00:28:14,969 --> 00:28:23,759
next week hi I'm Finn and I'm Rebecca

644
00:28:21,450 --> 00:28:25,469
and where the skipper cons skipper

645
00:28:23,759 --> 00:28:27,239
Collins is an Irish blood cast by the

646
00:28:25,469 --> 00:28:28,889
Dublin skeptics society it takes a

647
00:28:27,239 --> 00:28:30,659
conversational reverent look at science

648
00:28:28,888 --> 00:28:34,168
news and skeptical topics from an Irish

649
00:28:30,659 --> 00:28:37,190
perspective you can find us at WWDC

650
00:28:34,169 --> 00:28:37,190
arrogance calm

651
00:28:45,230 --> 00:28:53,069
and joining me now from Brisbane sunny

652
00:28:50,278 --> 00:28:55,048
Brisbane it's the o clock healthier can

653
00:28:53,069 --> 00:28:56,970
I Richard hey guy I'm doing really well

654
00:28:55,048 --> 00:28:59,308
and I'm very excited and very pleased to

655
00:28:56,970 --> 00:29:02,579
see that you are releasing another

656

00:28:59,308 --> 00:29:05,849
edition of the book humbug which I first

657
00:29:02,579 --> 00:29:07,678
came across some years back humbug the

658
00:29:05,849 --> 00:29:10,918
skeptics field guide to spotting

659
00:29:07,679 --> 00:29:13,380
fallacies and deceptive arguments now

660
00:29:10,919 --> 00:29:15,028
let's go right back to the beginning you

661
00:29:13,380 --> 00:29:16,919
wrote the the first edition with your

662
00:29:15,028 --> 00:29:18,898
dad who some sadly no longer with us

663
00:29:16,919 --> 00:29:21,659
what inspired you to to put this

664
00:29:18,898 --> 00:29:23,489
together look so it began really my

665
00:29:21,659 --> 00:29:27,169
father was an academic in teacher

666
00:29:23,490 --> 00:29:29,548
education at UM Griffith University and

667
00:29:27,169 --> 00:29:31,080
we've had obviously had a long title

668
00:29:29,548 --> 00:29:32,220
standing interesting skepticism and

669
00:29:31,079 --> 00:29:33,960
critical thinking and things like that

670
00:29:32,220 --> 00:29:35,730

and one of the things he'd noticed in

671

00:29:33,960 --> 00:29:38,159

student essays was they were able to

672

00:29:35,730 --> 00:29:41,700

critique educational articles and things

673

00:29:38,159 --> 00:29:43,710

like that probably intuitively so lots

674

00:29:41,700 --> 00:29:45,298

of times people sense that an argument

675

00:29:43,710 --> 00:29:47,130

is flawed or wrong or there's some issue

676

00:29:45,298 --> 00:29:49,079

with it but they can only really go that

677

00:29:47,130 --> 00:29:50,789

superficially and can't identify exactly

678

00:29:49,079 --> 00:29:54,449

where in arguments gone wrong or how

679

00:29:50,788 --> 00:29:55,888

it's been misrepresented so we he'd

680

00:29:54,450 --> 00:29:57,480

obviously had an interesting critical

681

00:29:55,888 --> 00:30:00,538

thinking through his studies and his

682

00:29:57,480 --> 00:30:02,940

work and we gradually started to look at

683

00:30:00,538 --> 00:30:04,888

teaching fallacies as a way to approach

684

00:30:02,940 --> 00:30:08,159

critical thinking because when you can

685
00:30:04,888 --> 00:30:09,839
learn how to to identify flooded raising

686
00:30:08,159 --> 00:30:11,399
you can then you know pointed out in

687
00:30:09,839 --> 00:30:13,408
other people's reasoning but also then

688
00:30:11,398 --> 00:30:15,000
remove it from your own and therefore

689
00:30:13,409 --> 00:30:16,740
structure a better argument or make your

690
00:30:15,000 --> 00:30:20,909
point better so that's where the genesis

691
00:30:16,740 --> 00:30:24,240
of the book began it's very good because

692
00:30:20,909 --> 00:30:27,600
it happens to us all but I think from a

693
00:30:24,240 --> 00:30:30,450
skeptics point of view it skeptics seem

694
00:30:27,599 --> 00:30:33,449
to be on the the wrong end of these sort

695
00:30:30,450 --> 00:30:34,970
of things that many times sometimes I

696
00:30:33,450 --> 00:30:37,889
must admit from people who don't even

697
00:30:34,970 --> 00:30:39,630
who don't know better and this book

698
00:30:37,888 --> 00:30:42,449
would help everybody in that respect but

699
00:30:39,630 --> 00:30:43,889
some of the the argument skeptics will

700
00:30:42,450 --> 00:30:46,019
get again and again and again what a

701
00:30:43,888 --> 00:30:49,500
mine favorite of course is the straw man

702
00:30:46,019 --> 00:30:50,579
argument yeah absolutely that's a really

703
00:30:49,500 --> 00:30:53,190
important one I would

704
00:30:50,579 --> 00:30:56,099
argue that's probably the most

705
00:30:53,190 --> 00:30:58,200
fundamental fallacy that's seen with

706
00:30:56,099 --> 00:30:59,969
skeptics in the media anywhere in

707
00:30:58,200 --> 00:31:02,700
general is a straw man and not

708
00:30:59,970 --> 00:31:04,259
necessarily deliberately obviously can

709
00:31:02,700 --> 00:31:05,880
be done deliberately but a straw man is

710
00:31:04,259 --> 00:31:07,440
when you carry you essentially

711
00:31:05,880 --> 00:31:10,549
characterize your opponent's argument

712
00:31:07,440 --> 00:31:13,558
but you simply do a caricature of your

713

00:31:10,548 --> 00:31:16,558
opponent and if you're interested in

714
00:31:13,558 --> 00:31:18,538
seeking the truth as opposed to winning

715
00:31:16,558 --> 00:31:20,089
an argument you will actually try to

716
00:31:18,538 --> 00:31:22,980
understand your opponent's argument

717
00:31:20,089 --> 00:31:24,538
perfectly and if you're interested in

718
00:31:22,980 --> 00:31:27,058
winning your characterize your

719
00:31:24,538 --> 00:31:28,798
opponent's argument in a flawed way so

720
00:31:27,058 --> 00:31:30,928
it's easy for you to knock it down so

721
00:31:28,798 --> 00:31:32,759
that's the straw man fallacy and it's

722
00:31:30,929 --> 00:31:34,620
that's the distinction I make is if

723
00:31:32,759 --> 00:31:36,538
you're interested in the truth and your

724
00:31:34,619 --> 00:31:38,699
opponent is wrong you don't need to

725
00:31:36,538 --> 00:31:40,710
character to you know make a caricature

726
00:31:38,700 --> 00:31:42,269
of their argument you can just explain

727
00:31:40,710 --> 00:31:45,210

their argument perfectly and then

728

00:31:42,269 --> 00:31:47,069

explain why it's wrong yeah yes that's

729

00:31:45,210 --> 00:31:50,490

right and one of the the ones that was

730

00:31:47,069 --> 00:31:52,619

put to me once on national television

731

00:31:50,490 --> 00:31:55,460

was are you skeptics thought the world

732

00:31:52,619 --> 00:31:59,459

was flat therefore you're so silly I

733

00:31:55,460 --> 00:32:01,590

remember that we mustn't that joke yeah

734

00:31:59,460 --> 00:32:03,509

exactly i mean that's not what skeptics

735

00:32:01,589 --> 00:32:05,788

are you don't think it's about the

736

00:32:03,509 --> 00:32:08,129

process of self course you change your

737

00:32:05,788 --> 00:32:09,269

mind so if evidence comes along to force

738

00:32:08,130 --> 00:32:11,820

you to change your mind then that's what

739

00:32:09,269 --> 00:32:13,500

you do and if you're not married to the

740

00:32:11,819 --> 00:32:15,119

outcome but you're married to the

741

00:32:13,500 --> 00:32:17,009

process of you know thinking

742
00:32:15,119 --> 00:32:18,119
scientifically thinking critically then

743
00:32:17,009 --> 00:32:19,589
you don't mind when you have to change

744
00:32:18,119 --> 00:32:22,979
your mind it's exciting it's interesting

745
00:32:19,589 --> 00:32:24,839
it's new the issue is when you have a

746
00:32:22,980 --> 00:32:26,849
belief and you want to maintain that

747
00:32:24,839 --> 00:32:28,918
belief so then you rationalize that

748
00:32:26,849 --> 00:32:30,509
belief and of course we all do it to

749
00:32:28,919 --> 00:32:32,700
some extent but if you're aware of these

750
00:32:30,509 --> 00:32:34,619
cognitive biases these floors you can do

751
00:32:32,700 --> 00:32:36,298
your best to try and avoid that and I

752
00:32:34,619 --> 00:32:38,699
see in the book to you cover some some

753
00:32:36,298 --> 00:32:40,109
other old favorites and speaking of old

754
00:32:38,700 --> 00:32:42,659
favorite we have the argument from

755
00:32:40,109 --> 00:32:44,699
antiquity or I guess you could say the

756
00:32:42,659 --> 00:32:47,070
argument from tradition the argument

757
00:32:44,700 --> 00:32:50,669
from celebrity which is if some famous

758
00:32:47,069 --> 00:32:53,519
person says so it sort of tends to add

759
00:32:50,669 --> 00:32:55,740
weight to to an argument for with that

760
00:32:53,519 --> 00:32:57,929
are you argument is valid or not but I

761
00:32:55,740 --> 00:33:00,298
noticed one which tickled me a little

762
00:32:57,929 --> 00:33:02,190
bit I can't remember because I don't

763
00:33:00,298 --> 00:33:04,759
have it handy at the original copy the

764
00:33:02,190 --> 00:33:07,909
WTF fallacy can you tell me about that

765
00:33:04,759 --> 00:33:11,849
so that is a new one so it wasn't in the

766
00:33:07,909 --> 00:33:13,020
first edition and so to anyone who only

767
00:33:11,849 --> 00:33:14,788
has a copy of the first session I'll

768
00:33:13,019 --> 00:33:17,460
point out we have a bunch of extra new

769
00:33:14,788 --> 00:33:19,980
fallacies and I personally rewrote every

770

00:33:17,460 --> 00:33:21,808
single sentence of the new second

771
00:33:19,980 --> 00:33:23,190
edition so apologies if you got the

772
00:33:21,808 --> 00:33:26,879
first but you really need to upgrade to

773
00:33:23,190 --> 00:33:28,110
the second edition you know because the

774
00:33:26,880 --> 00:33:30,960
first issue was really basically was

775
00:33:28,109 --> 00:33:33,240
rubbish compared to this new one the WTF

776
00:33:30,960 --> 00:33:35,940
it really you know obviously it's not a

777
00:33:33,240 --> 00:33:37,440
technically a logical fallacy in terms

778
00:33:35,940 --> 00:33:40,140
of the strictest sense of the word logic

779
00:33:37,440 --> 00:33:43,200
it but it's come about really because of

780
00:33:40,140 --> 00:33:45,270
the age of the Internet and what you

781
00:33:43,200 --> 00:33:47,278
know I'm sure everyone hears who's

782
00:33:45,269 --> 00:33:49,589
listening to podcast is noticed is your

783
00:33:47,278 --> 00:33:50,970
get engaged in these long discussions on

784
00:33:49,589 --> 00:33:53,278

the internet with people that when you

785

00:33:50,970 --> 00:33:55,110

take a step back and think about it you

786

00:33:53,278 --> 00:33:56,490

know people like night Mark Adams you

787

00:33:55,109 --> 00:33:58,558

know from natural news and people like

788

00:33:56,490 --> 00:34:01,140

that you're not going to win with them

789

00:33:58,558 --> 00:34:03,778

they are possibly diagnose ibly

790

00:34:01,140 --> 00:34:07,440

certifiable in terms of you know there

791

00:34:03,778 --> 00:34:09,599

are mental health so the WTF almost is a

792

00:34:07,440 --> 00:34:11,519

way to say look this person is it's

793

00:34:09,599 --> 00:34:13,500

there's no point in engaging with them

794

00:34:11,519 --> 00:34:15,780

because they really are off the deep end

795

00:34:13,500 --> 00:34:17,639

so it isn't it is kind of an ad hominem

796

00:34:15,780 --> 00:34:19,649

but in a way it's almost a break and to

797

00:34:17,639 --> 00:34:22,378

say to yourself let's just stop this

798

00:34:19,648 --> 00:34:24,358

there's no point with it so we you know

799

00:34:22,378 --> 00:34:26,250
in our website skeptics field guide now

800

00:34:24,358 --> 00:34:28,079
we catalog a few of these and we've come

801

00:34:26,250 --> 00:34:29,878
across and that's where it really comes

802

00:34:28,079 --> 00:34:31,679
from in to have a it's almost a more

803

00:34:29,878 --> 00:34:33,989
extreme version of simple-minded

804

00:34:31,679 --> 00:34:36,418
certitude where you know this person is

805

00:34:33,989 --> 00:34:38,189
actually a bit of a loan so maybe should

806

00:34:36,418 --> 00:34:40,500
take step back and what's the pointing

807

00:34:38,190 --> 00:34:43,918
engaging with them it's an interesting

808

00:34:40,500 --> 00:34:45,809
angle to take because I I'll have to say

809

00:34:43,918 --> 00:34:48,148
that there are times when I come across

810

00:34:45,809 --> 00:34:52,230
people who engage in argument with me

811

00:34:48,148 --> 00:34:56,608
and the argument the process breaks down

812

00:34:52,230 --> 00:34:59,579
relatively soon because that there to be

813
00:34:56,608 --> 00:35:03,659
blunt incoherent a lot of the time or

814
00:34:59,579 --> 00:35:04,980
their own arguments contradict each

815
00:35:03,659 --> 00:35:06,269
other than they can't see it because

816
00:35:04,980 --> 00:35:08,940
they're sort of living in their own

817
00:35:06,269 --> 00:35:10,280
fantasy world and it's a tricky one

818
00:35:08,940 --> 00:35:12,480
because you don't want to come off as

819
00:35:10,280 --> 00:35:13,710
appearing really arrogant and saying I

820
00:35:12,480 --> 00:35:17,639
can't talk to this person they're

821
00:35:13,710 --> 00:35:18,360
obviously completely bonkers but I must

822
00:35:17,639 --> 00:35:19,799
admit some

823
00:35:18,360 --> 00:35:23,880
times I think I found that to be the

824
00:35:19,800 --> 00:35:25,320
case yeah and and that again is the

825
00:35:23,880 --> 00:35:26,970
point of it I mean you don't want to

826
00:35:25,320 --> 00:35:28,890
i've had people email me saying is this

827

00:35:26,969 --> 00:35:31,529
a WTF and i've responded and said well

828
00:35:28,889 --> 00:35:33,299
you know you really need to take a step

829
00:35:31,530 --> 00:35:34,890
back and make sure you're not just you

830
00:35:33,300 --> 00:35:37,110
know ending a conversation prematurely

831
00:35:34,889 --> 00:35:38,519
and just insulting them it really does

832
00:35:37,110 --> 00:35:41,099
need to be the point where you say as

833
00:35:38,519 --> 00:35:43,550
you said their own issues and points are

834
00:35:41,099 --> 00:35:45,630
so incoherent and self contradictory

835
00:35:43,550 --> 00:35:47,190
that you think well this we would have

836
00:35:45,630 --> 00:35:48,960
to step back to first principles of

837
00:35:47,190 --> 00:35:51,000
logic and reason and they'd have to

838
00:35:48,960 --> 00:35:52,829
accept all those things so you some of

839
00:35:51,000 --> 00:35:54,989
the examples of using the book you know

840
00:35:52,829 --> 00:35:58,079
a real example so when Madonna was

841
00:35:54,989 --> 00:36:00,569

talking about her wanting to you know

842

00:35:58,079 --> 00:36:02,009

help the world with nuclear waste but

843

00:36:00,570 --> 00:36:03,390

what's the point with it because you

844

00:36:02,010 --> 00:36:04,620

know she writes all these great songs

845

00:36:03,389 --> 00:36:06,569

and there's no world then what's the

846

00:36:04,619 --> 00:36:10,829

point writing all these songs and you

847

00:36:06,570 --> 00:36:13,080

know things like the the Richard Dawkins

848

00:36:10,829 --> 00:36:15,059

fantastic documentary the enemies of

849

00:36:13,079 --> 00:36:18,750

reason and there's a woman talking about

850

00:36:15,059 --> 00:36:20,940

12 stands of DNA DNA in Atlantis etc you

851

00:36:18,750 --> 00:36:23,250

just go right it's so incoherent you

852

00:36:20,940 --> 00:36:24,480

know you're taking DNA then Atlantis and

853

00:36:23,250 --> 00:36:26,250

all these different things and there's

854

00:36:24,480 --> 00:36:30,329

literally no point in engaging with her

855

00:36:26,250 --> 00:36:31,920

yes yes and that that's a can lead to

856
00:36:30,329 --> 00:36:33,929
very interesting situations when then

857
00:36:31,920 --> 00:36:35,519
you're accused of not engaging with

858
00:36:33,929 --> 00:36:37,079
people from a different point of view

859
00:36:35,519 --> 00:36:38,670
and what are you scared of skeptic and

860
00:36:37,079 --> 00:36:42,059
why don't you argue with this person and

861
00:36:38,670 --> 00:36:43,680
your head desking away yeah life's too

862
00:36:42,059 --> 00:36:45,449
short basically that's what it is and

863
00:36:43,679 --> 00:36:46,710
it's that internet meme of I can't go to

864
00:36:45,449 --> 00:36:49,049
bed now because someone's wrong on the

865
00:36:46,710 --> 00:36:50,460
Internet yeah just go well actually it's

866
00:36:49,050 --> 00:36:52,740
not worth investing in that time and

867
00:36:50,460 --> 00:36:55,260
effort and your travels when you're

868
00:36:52,739 --> 00:36:58,379
talking with people what what are what

869
00:36:55,260 --> 00:37:02,220
is the most common fallacy people would

870
00:36:58,380 --> 00:37:04,829
innocently fall into look again I'd have

871
00:37:02,219 --> 00:37:07,649
to say a couple that I really do notice

872
00:37:04,829 --> 00:37:09,480
is you know false dichotomy so people

873
00:37:07,650 --> 00:37:11,700
often will say you know if we do this we

874
00:37:09,480 --> 00:37:13,579
can't do that or you know blackened up

875
00:37:11,699 --> 00:37:17,279
kind of black and white thinking yeah

876
00:37:13,579 --> 00:37:20,130
certainly the misuse of information so

877
00:37:17,280 --> 00:37:21,720
misusing science in particular is one

878
00:37:20,130 --> 00:37:23,070
that you know personally my background

879
00:37:21,719 --> 00:37:26,039
is as a physics teacher so that one

880
00:37:23,070 --> 00:37:27,900
really just drives me up the wall and I

881
00:37:26,039 --> 00:37:29,699
certainly say moving the goalposts so in

882
00:37:27,900 --> 00:37:31,920
a conversation and a discussion or an

883
00:37:29,699 --> 00:37:33,838
argument people will start

884

00:37:31,920 --> 00:37:35,369
get off topic pretty quickly and shift

885
00:37:33,838 --> 00:37:36,558
the goalposts oh that's there probably

886
00:37:35,369 --> 00:37:38,460
some of the big ones that I see

887
00:37:36,559 --> 00:37:40,290
obviously just in terms of people's

888
00:37:38,460 --> 00:37:42,329
cognitive biases so things like

889
00:37:40,289 --> 00:37:44,099
observational selection that kind of

890
00:37:42,329 --> 00:37:46,140
stuff as well some of the ones that I

891
00:37:44,099 --> 00:37:47,910
commonly see even with some of my

892
00:37:46,139 --> 00:37:51,629
colleagues but I won't that will be

893
00:37:47,909 --> 00:37:53,368
remain nameless I i do see those ones i

894
00:37:51,630 --> 00:37:56,309
also see the argument from Authority

895
00:37:53,369 --> 00:37:59,369
used quite a lot so and so said this

896
00:37:56,309 --> 00:38:02,099
therefore you know you can a lot of wage

897
00:37:59,369 --> 00:38:03,720
because so-and-so said this yeah you

898
00:38:02,099 --> 00:38:05,068

know I mean in terms of and obviously

899

00:38:03,719 --> 00:38:06,689

appeal to celebrities one of the ones

900

00:38:05,068 --> 00:38:08,460

that really has come on to the in the

901

00:38:06,690 --> 00:38:10,409

four in the last time decade or so

902

00:38:08,460 --> 00:38:12,510

obviously people like Jenny McCarthy and

903

00:38:10,409 --> 00:38:14,789

um those kind of people have done a lot

904

00:38:12,510 --> 00:38:17,280

of damage to so that's a real worry the

905

00:38:14,789 --> 00:38:19,409

other 1i it's a kind of a new one and I

906

00:38:17,280 --> 00:38:20,760

hadn't seen really out there was what I

907

00:38:19,409 --> 00:38:23,519

like to phrase as an argument from

908

00:38:20,760 --> 00:38:26,549

imagination I saw the book yeah that's

909

00:38:23,519 --> 00:38:27,690

it you janu on you again because there

910

00:38:26,548 --> 00:38:29,639

hadn't really been anything out there

911

00:38:27,690 --> 00:38:31,950

were people they come up with an idea

912

00:38:29,639 --> 00:38:34,108

about the way the world works and then

913
00:38:31,949 --> 00:38:36,210
they propose a hypothesis and then they

914
00:38:34,108 --> 00:38:38,400
just assume that that hypothesis is true

915
00:38:36,210 --> 00:38:40,079
and they don't actually go and find any

916
00:38:38,400 --> 00:38:42,088
evidence for it you know the hypothesis

917
00:38:40,079 --> 00:38:43,920
might make sense but essentially really

918
00:38:42,088 --> 00:38:45,750
it's just saying in my imagination I

919
00:38:43,920 --> 00:38:47,940
think this is how the world works and I

920
00:38:45,750 --> 00:38:49,619
looked around to try and find a fallacy

921
00:38:47,940 --> 00:38:52,440
that related to that anything i could

922
00:38:49,619 --> 00:38:54,180
say fun was the opposite you know the

923
00:38:52,440 --> 00:38:55,349
argument from personal incredulity when

924
00:38:54,179 --> 00:38:57,149
they said well i can't imagine how that

925
00:38:55,349 --> 00:38:58,920
could work so it's really the opposite

926
00:38:57,150 --> 00:39:00,720
version where if i can imagine how it

927
00:38:58,920 --> 00:39:03,298
works then that is the way it works and

928
00:39:00,719 --> 00:39:04,439
again if you take a step back and think

929
00:39:03,298 --> 00:39:06,449
of it it's almost like begging the

930
00:39:04,440 --> 00:39:08,400
question the question has a very

931
00:39:06,449 --> 00:39:09,960
particular form so that was another one

932
00:39:08,400 --> 00:39:12,269
that i thought it is a useful way of

933
00:39:09,960 --> 00:39:14,280
categorizing some of the types of you

934
00:39:12,269 --> 00:39:15,960
know weak arguments people make I think

935
00:39:14,280 --> 00:39:17,910
begging the question two is a really

936
00:39:15,960 --> 00:39:22,079
important one that people should bear in

937
00:39:17,909 --> 00:39:23,639
mind because again from from a skeptical

938
00:39:22,079 --> 00:39:27,539
point of view being a skeptic out there

939
00:39:23,639 --> 00:39:30,358
and hearing people's points of view so

940
00:39:27,539 --> 00:39:32,969
often so often in my experience people

941

00:39:30,358 --> 00:39:36,239
will beg the question when they say to

942
00:39:32,969 --> 00:39:37,259
me something like well mr. skeptic I

943
00:39:36,239 --> 00:39:39,419
always know where they're coming from

944
00:39:37,260 --> 00:39:41,460
when they say mr. skeptic they say mr.

945
00:39:39,420 --> 00:39:43,500
skeptic what about that what about all

946
00:39:41,460 --> 00:39:45,570
the people who have seen ghosts or what

947
00:39:43,500 --> 00:39:47,250
about the time what do you say to

948
00:39:45,570 --> 00:39:49,830
little girl who sees a ghost every night

949
00:39:47,250 --> 00:39:51,210
it's um it happens so frequently this

950
00:39:49,829 --> 00:39:52,799
begging the question and I think it's a

951
00:39:51,210 --> 00:39:54,599
really important one people should

952
00:39:52,800 --> 00:39:57,060
understand at least they're being polite

953
00:39:54,599 --> 00:39:59,099
by calling you mr. Skippy oh I can give

954
00:39:57,059 --> 00:40:00,750
them that yeah and again I mean that

955
00:39:59,099 --> 00:40:02,460

that's a really good classic example of

956

00:40:00,750 --> 00:40:04,619

that burden of proof fallacy as well

957

00:40:02,460 --> 00:40:06,780

where they say well if you can't prove

958

00:40:04,619 --> 00:40:08,279

that it's not goes yeah that's because

959

00:40:06,780 --> 00:40:10,200

then you're so we'll hang on a second

960

00:40:08,280 --> 00:40:11,880

but where does a burden like the burden

961

00:40:10,199 --> 00:40:14,549

actually lies in the person make making

962

00:40:11,880 --> 00:40:16,410

the claim so if their claim is

963

00:40:14,550 --> 00:40:17,910

essentially eyewitness testimony and

964

00:40:16,409 --> 00:40:19,619

they really just haven't done the

965

00:40:17,909 --> 00:40:21,929

research or the reading about well how

966

00:40:19,619 --> 00:40:23,519

valid is eyewitness testimony in terms

967

00:40:21,929 --> 00:40:26,190

of hallucinations and things like that

968

00:40:23,519 --> 00:40:29,009

so all those phenomena can be explained

969

00:40:26,190 --> 00:40:30,389

by our understanding in modern

970
00:40:29,010 --> 00:40:31,620
psychology in the research now we've

971
00:40:30,389 --> 00:40:33,210
read people that Richard Wiseman and

972
00:40:31,619 --> 00:40:35,429
those guys and you get a pretty clear

973
00:40:33,210 --> 00:40:38,070
picture of an alternative hypothesis

974
00:40:35,429 --> 00:40:39,839
that probably has more weight that's

975
00:40:38,070 --> 00:40:41,580
another thing we added to the settler to

976
00:40:39,840 --> 00:40:44,010
the second edition of the book is some

977
00:40:41,579 --> 00:40:45,869
of those you know tools are skeptical

978
00:40:44,010 --> 00:40:47,040
thinking some of those ones a Carl Sagan

979
00:40:45,869 --> 00:40:51,299
talk about such as spinning and other

980
00:40:47,039 --> 00:40:52,769
hypotheses and that that claim you get

981
00:40:51,300 --> 00:40:55,050
made by those people you know how can

982
00:40:52,769 --> 00:40:56,519
you explain this well of course I can't

983
00:40:55,050 --> 00:40:59,220
explain it I wasn't there I didn't see

984
00:40:56,519 --> 00:41:00,449
it no yeah so and then it's almost put

985
00:40:59,219 --> 00:41:03,239
forward it's like a horrible therefore i

986
00:41:00,449 --> 00:41:04,919
win life's little inclination I brings

987
00:41:03,239 --> 00:41:06,929
all the laws of physics so your

988
00:41:04,920 --> 00:41:09,059
explanation a little bit more

989
00:41:06,929 --> 00:41:11,750
challenging to actually with uphold it

990
00:41:09,059 --> 00:41:14,429
happens again again people are there's a

991
00:41:11,750 --> 00:41:18,269
guy at the moment with these UFO videos

992
00:41:14,429 --> 00:41:21,029
online dealing with the skeptics and his

993
00:41:18,269 --> 00:41:23,759
basic premises will you can't tell what

994
00:41:21,030 --> 00:41:25,410
it is therefore i win yeah i mean answer

995
00:41:23,760 --> 00:41:27,810
that is though that's the classic burden

996
00:41:25,409 --> 00:41:29,460
of proof and you know if if we have

997
00:41:27,809 --> 00:41:31,230
ruled out every other possibility and

998

00:41:29,460 --> 00:41:32,730
that's the only ones left over fair

999
00:41:31,230 --> 00:41:34,920
enough but i don't think we've ruled out

1000
00:41:32,730 --> 00:41:38,159
every other possibility yeah that's

1001
00:41:34,920 --> 00:41:40,200
right so Theo how can people get their

1002
00:41:38,159 --> 00:41:41,849
hands on a copy of this book which is an

1003
00:41:40,199 --> 00:41:44,789
e-book by the way so people can

1004
00:41:41,849 --> 00:41:47,400
certainly easily read it on their their

1005
00:41:44,789 --> 00:41:49,559
tablets and so on what's the best place

1006
00:41:47,400 --> 00:41:52,740
people can go to the best place is just

1007
00:41:49,559 --> 00:41:54,269
to go to the website WWE app text field

1008
00:41:52,739 --> 00:41:56,309
guide net and there's a link that says

1009
00:41:54,269 --> 00:41:59,039
ebook and yet the choice of platforms at

1010
00:41:56,309 --> 00:42:02,130
the moment on kindle google play ball

1011
00:41:59,039 --> 00:42:05,610
and also loo loo the loo loo version is

1012
00:42:02,130 --> 00:42:07,230

a drm-free epub so if you prefer to have

1013

00:42:05,610 --> 00:42:10,410

a drm-free so you know digital rights

1014

00:42:07,230 --> 00:42:12,630

management free version it's there the

1015

00:42:10,409 --> 00:42:15,299

original first edition is freely

1016

00:42:12,630 --> 00:42:16,410

available as a scan because I you know

1017

00:42:15,300 --> 00:42:17,490

send it into google books and they

1018

00:42:16,409 --> 00:42:19,289

scanned it I've made the entire thing

1019

00:42:17,489 --> 00:42:20,669

free so you just want to cop free copy

1020

00:42:19,289 --> 00:42:22,469

the first edition you can grab that but

1021

00:42:20,670 --> 00:42:24,599

as I said I have rewritten every single

1022

00:42:22,469 --> 00:42:28,230

sentence painstakingly so I'd get the

1023

00:42:24,599 --> 00:42:30,210

ebook it's only 399 I am investigating

1024

00:42:28,230 --> 00:42:31,409

doing some print on demand to make a

1025

00:42:30,210 --> 00:42:32,849

paperback version because already had a

1026

00:42:31,409 --> 00:42:34,769

couple of people saved they'd like a

1027
00:42:32,849 --> 00:42:36,269
paperback version so I'll certainly let

1028
00:42:34,769 --> 00:42:37,980
you know when that happens we've also

1029
00:42:36,269 --> 00:42:39,750
relaunch the podcast so that's the other

1030
00:42:37,980 --> 00:42:43,110
thing that's happened to us with my

1031
00:42:39,750 --> 00:42:47,070
father yeah I'm Jeff and I'm relaunching

1032
00:42:43,110 --> 00:42:48,480
it probably every fortnight the purpose

1033
00:42:47,070 --> 00:42:50,910
of it is to go through every single

1034
00:42:48,480 --> 00:42:52,590
fallacy in the book included in that

1035
00:42:50,909 --> 00:42:53,879
will be some of the original episodes I

1036
00:42:52,590 --> 00:42:55,380
mean to splicing them in there with my

1037
00:42:53,880 --> 00:42:58,140
dad Jeff because I think it's a good

1038
00:42:55,380 --> 00:42:59,820
tribute to him sure and also the

1039
00:42:58,139 --> 00:43:02,460
original is archive but you can't access

1040
00:42:59,820 --> 00:43:04,440
it via podcast app so that's another

1041
00:43:02,460 --> 00:43:06,929
thing I'm doing as well excellent well

1042
00:43:04,440 --> 00:43:09,840
there you go folks the book is humbug

1043
00:43:06,929 --> 00:43:12,299
the skeptics field guide to spotting

1044
00:43:09,840 --> 00:43:14,400
fallacies and deceptive arguments it

1045
00:43:12,300 --> 00:43:15,930
certainly it's like the handbook I think

1046
00:43:14,400 --> 00:43:18,809
every skeptic should have on their

1047
00:43:15,929 --> 00:43:21,449
device or about them it's good to read

1048
00:43:18,809 --> 00:43:23,789
at at least once a year to refresh

1049
00:43:21,449 --> 00:43:26,189
yourself on all these interesting ways

1050
00:43:23,789 --> 00:43:27,929
that people can use bad arguments and

1051
00:43:26,190 --> 00:43:30,329
being a skeptic you're going to come

1052
00:43:27,929 --> 00:43:32,579
across bad arguments all the time Theo

1053
00:43:30,329 --> 00:43:34,579
really nice to catch up with you and all

1054
00:43:32,579 --> 00:43:36,929
the best with the book and the podcast

1055

00:43:34,579 --> 00:43:38,309
excellent thanks Richard and thanks surf

1056
00:43:36,929 --> 00:43:41,960
the opportunity to have a chatty of our

1057
00:43:38,309 --> 00:43:41,960
fallacies of them happy to do it anytime

1058
00:43:46,670 --> 00:43:50,760
are you enjoying the skeptics own

1059
00:43:48,929 --> 00:43:53,308
podcast and wondering where you can find

1060
00:43:50,760 --> 00:43:55,170
more skeptical information skeptics on

1061
00:43:53,309 --> 00:43:57,059
the net is an online directory for

1062
00:43:55,170 --> 00:43:59,130
everything skeptical it features

1063
00:43:57,059 --> 00:44:02,099
listings for skeptical podcasts blogs

1064
00:43:59,130 --> 00:44:04,349
people local groups and more it also

1065
00:44:02,099 --> 00:44:05,940
includes the sotn blog where people in

1066
00:44:04,349 --> 00:44:07,650
the know right introductions to their

1067
00:44:05,940 --> 00:44:14,030
favorite skeptical and pseudo scientific

1068
00:44:07,650 --> 00:44:14,030
topics please visit skeptics on the.net

1069
00:44:17,568 --> 00:44:23,940

and now join me as I go to Sydney

1070

00:44:21,150 --> 00:44:26,608

skeptics in the pub always on the first

1071

00:44:23,940 --> 00:44:30,150

thursday of each month at the crown

1072

00:44:26,608 --> 00:44:38,989

hotel in the city you can find out more

1073

00:44:30,150 --> 00:44:38,990

by going to WWE top com /a UST skeptics

1074

00:44:42,130 --> 00:44:46,338

well the talks all over folks we had a

1075

00:44:44,509 --> 00:44:48,079

great talk tonight about morality and

1076

00:44:46,338 --> 00:44:51,048

God good heavens what an interesting

1077

00:44:48,079 --> 00:44:52,969

talk and I'm was delighted delighted to

1078

00:44:51,048 --> 00:44:54,619

see lots of new faces here at skeptics

1079

00:44:52,969 --> 00:44:58,009

in the pub tonight hello into your face

1080

00:44:54,619 --> 00:45:00,200

hi I'm eiza aiza um thank you for coming

1081

00:44:58,009 --> 00:45:01,818

along to Sydney skeptics in the pub it's

1082

00:45:00,199 --> 00:45:03,618

great this is the first time I've ever

1083

00:45:01,818 --> 00:45:07,400

been here and I have to say that the

1084
00:45:03,619 --> 00:45:10,910
speaker was amazing I think very deep

1085
00:45:07,400 --> 00:45:15,318
partner philosophy philosophy you know

1086
00:45:10,909 --> 00:45:17,568
all that nerdy stuff but it was greatest

1087
00:45:15,318 --> 00:45:19,639
I think I'm very stimulating and it

1088
00:45:17,568 --> 00:45:21,858
gives you some something really meaty to

1089
00:45:19,639 --> 00:45:24,828
chew on and think about that's one way

1090
00:45:21,858 --> 00:45:25,998
to say i must admit i will always keen

1091
00:45:24,829 --> 00:45:28,548
to know how did you find out about

1092
00:45:25,998 --> 00:45:31,159
Sydney skeptics in the pub actually on

1093
00:45:28,548 --> 00:45:33,288
the meetup group yes and I've been on

1094
00:45:31,159 --> 00:45:35,808
the meetup group for almost a year but

1095
00:45:33,289 --> 00:45:38,089
I've never come before because most of

1096
00:45:35,809 --> 00:45:41,859
my master's classes on thursday nights

1097
00:45:38,088 --> 00:45:43,940
at the masters classes oh what's that in

1098
00:45:41,858 --> 00:45:46,278
communications management whatever that

1099
00:45:43,940 --> 00:45:47,989
means ok whatever that means now you've

1100
00:45:46,278 --> 00:45:50,389
got a very lovely accent there where are

1101
00:45:47,989 --> 00:45:51,829
you from I'm from Malaysia Malaysia oh

1102
00:45:50,389 --> 00:45:55,219
and you're living in Australia just

1103
00:45:51,829 --> 00:45:59,239
studying I'm just both I guess well you

1104
00:45:55,219 --> 00:46:00,710
know it's not either/or well let me put

1105
00:45:59,239 --> 00:46:02,358
another way have you moved here or you

1106
00:46:00,710 --> 00:46:06,108
just keep sake style I want to move here

1107
00:46:02,358 --> 00:46:07,728
permanently yes I'm working on it of

1108
00:46:06,108 --> 00:46:10,788
course you do it's a wonderful place too

1109
00:46:07,728 --> 00:46:12,858
yes it is much better than at least in

1110
00:46:10,789 --> 00:46:15,319
terms of civil liberties much better

1111
00:46:12,858 --> 00:46:16,759
than Malaysia well then I can't comment

1112

00:46:15,318 --> 00:46:18,829
on because I've never been to Malaysia I

1113
00:46:16,759 --> 00:46:20,690
went to Singapore briefly but I've never

1114
00:46:18,829 --> 00:46:23,180
been to Malaysia I guess it's a nice

1115
00:46:20,690 --> 00:46:28,068
place to visit though it's a great place

1116
00:46:23,179 --> 00:46:32,199
to visit especially if you're the right

1117
00:46:28,068 --> 00:46:34,849
race oh yeah yeah yeah so um I think

1118
00:46:32,199 --> 00:46:36,498
that many good things about it but they

1119
00:46:34,849 --> 00:46:37,969
also as I say in terms of civil

1120
00:46:36,498 --> 00:46:40,518
liberties there's some things that are

1121
00:46:37,969 --> 00:46:41,960
lacking in our society I'm sure our

1122
00:46:40,518 --> 00:46:43,389
Malaysian listeners will be very

1123
00:46:41,960 --> 00:46:47,230
interested to get that

1124
00:46:43,389 --> 00:46:48,848
we have a another you I think have you

1125
00:46:47,230 --> 00:46:50,409
been here before all this is your first

1126
00:46:48,849 --> 00:46:52,180

time you left rest are this is my first

1127

00:46:50,409 --> 00:46:54,250

time here and how did you discover us

1128

00:46:52,179 --> 00:46:56,219

well I'm a longtime listener I listened

1129

00:46:54,250 --> 00:46:58,480

to your very first skeptics own podcast

1130

00:46:56,219 --> 00:47:02,739

so you're the man who listened to my

1131

00:46:58,480 --> 00:47:04,659

first that's me and yeah I believed

1132

00:47:02,739 --> 00:47:06,969

lived in coffs harbour still do but i

1133

00:47:04,659 --> 00:47:08,288

recently got working in sydney right and

1134

00:47:06,969 --> 00:47:09,608

i'll be here for about 12 months or so

1135

00:47:08,289 --> 00:47:11,740

and this is the first opportunity I've

1136

00:47:09,608 --> 00:47:14,348

had to come to one of the meetings all

1137

00:47:11,739 --> 00:47:16,899

it's like coming home please you're here

1138

00:47:14,349 --> 00:47:18,760

coffs harbour I used to live on the far

1139

00:47:16,900 --> 00:47:20,380

north coast of new cell phones myself

1140

00:47:18,760 --> 00:47:22,869

when I was growing up so I know coffs

1141
00:47:20,380 --> 00:47:24,640
harbour it's a it's a lovely place it's

1142
00:47:22,869 --> 00:47:28,539
big banana right the big banana that's

1143
00:47:24,639 --> 00:47:30,670
right it every April first as an article

1144
00:47:28,539 --> 00:47:34,660
in the paper with it banana was taken

1145
00:47:30,670 --> 00:47:36,960
away for the weekend bit skeptical but

1146
00:47:34,659 --> 00:47:40,328
yeah great place to be of great climate

1147
00:47:36,960 --> 00:47:41,588
great climb please I'm Alicia come along

1148
00:47:40,329 --> 00:47:43,539
tonight and I hope you had a good night

1149
00:47:41,588 --> 00:47:46,568
I dare wonderful night the great speak

1150
00:47:43,539 --> 00:47:49,660
great speech here fantastic I think so

1151
00:47:46,568 --> 00:47:51,730
too i'm not sure what's on next month I

1152
00:47:49,659 --> 00:47:53,379
won't be here myself i'll be in the in

1153
00:47:51,730 --> 00:47:55,150
the united states on my way to the

1154
00:47:53,380 --> 00:47:58,298
amazing meeting but i've already

1155
00:47:55,150 --> 00:47:59,920
promised the organizer jessica over

1156
00:47:58,298 --> 00:48:01,838
there that i'll be speaking on the one

1157
00:47:59,920 --> 00:48:03,130
after that okay that's great i'll be

1158
00:48:01,838 --> 00:48:04,659
here for the next one end they went

1159
00:48:03,130 --> 00:48:06,608
after not sure what I'm going to say but

1160
00:48:04,659 --> 00:48:09,250
I'm sure I'll find out I'll find

1161
00:48:06,608 --> 00:48:14,500
something to talk about well thank you

1162
00:48:09,250 --> 00:48:15,880
both for coming along thank you goodness

1163
00:48:14,500 --> 00:48:18,039
me it's an agetti from the Blue

1164
00:48:15,880 --> 00:48:20,259
Mountains hello hello Richard Saunders

1165
00:48:18,039 --> 00:48:22,059
how are you but you know you travel now

1166
00:48:20,259 --> 00:48:24,608
I'm from the Blue Mountains every month

1167
00:48:22,059 --> 00:48:27,099
for this yes yes I'm very committed in

1168
00:48:24,608 --> 00:48:28,900
the train yes the train is great it's

1169

00:48:27,099 --> 00:48:30,700
not bad is it no it's very comfortable

1170
00:48:28,900 --> 00:48:33,579
and what do you like about Sydney's

1171
00:48:30,699 --> 00:48:35,730
skeptics in the pub oh okay I'm well I

1172
00:48:33,579 --> 00:48:38,170
like the variety of speakers and the

1173
00:48:35,730 --> 00:48:39,369
like-minded people

1174
00:48:38,170 --> 00:48:43,030
getting to know wonderful people like

1175
00:48:39,369 --> 00:48:46,210
you Richard haha come on the show

1176
00:48:43,030 --> 00:48:48,790
anytime and it's a great pity that our

1177
00:48:46,210 --> 00:48:50,470
dear friend agile the best is not well

1178
00:48:48,789 --> 00:48:53,050
at the moment no I think she's got a bit

1179
00:48:50,469 --> 00:48:54,669
of a cold oh dear yeah but she also

1180
00:48:53,050 --> 00:48:57,310
normally makes the journey down from the

1181
00:48:54,670 --> 00:48:59,050
lounge in fact she's probably big reason

1182
00:48:57,309 --> 00:49:00,969
why I go down having been accompanied on

1183
00:48:59,050 --> 00:49:03,550

the train and you know making a bit of a

1184

00:49:00,969 --> 00:49:05,319

friend adding it's it's great yeah yeah

1185

00:49:03,550 --> 00:49:06,789

well um I the other thing I really like

1186

00:49:05,320 --> 00:49:09,580

about it is the fact that you you're not

1187

00:49:06,789 --> 00:49:11,529

some economically bound you know there's

1188

00:49:09,579 --> 00:49:13,449

no there's no entry price yeah you don't

1189

00:49:11,530 --> 00:49:15,640

have to eat or drink you don't hear you

1190

00:49:13,449 --> 00:49:17,889

don't want to no no no so it really

1191

00:49:15,639 --> 00:49:20,679

accessible open to everybody lithium

1192

00:49:17,889 --> 00:49:22,569

secret oh if you go downstairs and put a

1193

00:49:20,679 --> 00:49:26,649

dollar in the poker machines you can

1194

00:49:22,570 --> 00:49:30,550

nibble their cheese and biscuits is it

1195

00:49:26,650 --> 00:49:32,800

worth a dollar how do you get a bit of

1196

00:49:30,550 --> 00:49:34,240

entertainment sadness and the sadness

1197

00:49:32,800 --> 00:49:36,280

and a couple of cheese and biscuits

1198
00:49:34,239 --> 00:49:37,569
sadness as we're looking at the people

1199
00:49:36,280 --> 00:49:39,610
who've been there since six and the more

1200
00:49:37,570 --> 00:49:40,900
now moving up tell me more about your

1201
00:49:39,610 --> 00:49:44,620
group up in the Blue Mountains how's

1202
00:49:40,900 --> 00:49:47,079
that going fantastic we've had 34 really

1203
00:49:44,619 --> 00:49:50,319
great talks so far on on political

1204
00:49:47,079 --> 00:49:53,139
philosophy and one you know in a second

1205
00:49:50,320 --> 00:49:55,539
group of three talks on reason and

1206
00:49:53,139 --> 00:49:57,759
emotion and there's another one coming

1207
00:49:55,539 --> 00:50:01,989
up on the fourteenth oh no the 20-foot

1208
00:49:57,760 --> 00:50:05,020
know sometime what's the website it is a

1209
00:50:01,989 --> 00:50:07,419
blackheath philosophy org dot au and

1210
00:50:05,019 --> 00:50:09,190
we're also on Facebook people in the

1211
00:50:07,420 --> 00:50:11,380
blue mountains area might do well to

1212
00:50:09,190 --> 00:50:13,150
check it out oh absolutely where cross

1213
00:50:11,380 --> 00:50:15,570
the road from the train station it's ten

1214
00:50:13,150 --> 00:50:18,579
bucks including a nice afternoon tea and

1215
00:50:15,570 --> 00:50:20,050
it's always a great speaker and a really

1216
00:50:18,579 --> 00:50:22,659
interesting afternoon and there's always

1217
00:50:20,050 --> 00:50:24,370
plenty of time for Question and Answer

1218
00:50:22,659 --> 00:50:25,899
so everyone can get involved I must

1219
00:50:24,369 --> 00:50:27,639
admit I do have a soft spot for the Blue

1220
00:50:25,900 --> 00:50:30,700
Mountains I lived there for time when I

1221
00:50:27,639 --> 00:50:33,250
was a very young boy in lithgow oh I'm

1222
00:50:30,699 --> 00:50:35,199
not sure we call that the mountain what

1223
00:50:33,250 --> 00:50:37,300
do you go what is it well because let

1224
00:50:35,199 --> 00:50:38,649
guys actually when your descent is after

1225
00:50:37,300 --> 00:50:40,480
you can you make that descent down that

1226

00:50:38,650 --> 00:50:42,539
Victoria pass then you're in leaf goes

1227
00:50:40,480 --> 00:50:45,639
guess you're right in the mountain

1228
00:50:42,539 --> 00:50:49,599
what's that area called in oh good one

1229
00:50:45,639 --> 00:50:52,480
down the other side western New South

1230
00:50:49,599 --> 00:50:54,460
Wales aw really yeah yeah yeah it is

1231
00:50:52,480 --> 00:50:57,849
that purpose it's still snows there you

1232
00:50:54,460 --> 00:51:01,300
know yes it's nice orange too but you

1233
00:50:57,849 --> 00:51:03,400
know it's true and it's knows where you

1234
00:51:01,300 --> 00:51:04,900
live oh very occasionally we actually

1235
00:51:03,400 --> 00:51:06,700
you actually get a lot bit of snow out

1236
00:51:04,900 --> 00:51:09,190
on the Oberon photo then you do on the

1237
00:51:06,699 --> 00:51:11,710
on the mountains where we're very lucky

1238
00:51:09,190 --> 00:51:15,039
if we ever get snow or unlucky depending

1239
00:51:11,710 --> 00:51:17,050
no no no lucky lucky lucky lucky yeah I

1240
00:51:15,039 --> 00:51:19,420

be I like a little bit of snow every now

1241

00:51:17,050 --> 00:51:20,740

and then so much faster I'm you know if

1242

00:51:19,420 --> 00:51:22,809

it snowed for six months of the year

1243

00:51:20,739 --> 00:51:25,299

we'd probably hate it but it's such a

1244

00:51:22,809 --> 00:51:27,219

novelty and it's just beautiful and it

1245

00:51:25,300 --> 00:51:28,870

changes the landscape completely takes

1246

00:51:27,219 --> 00:51:32,199

all the color out of it it's just it's

1247

00:51:28,869 --> 00:51:34,029

anime know was like sort of very young

1248

00:51:32,199 --> 00:51:35,319

other time I'm saying well thanks Dan

1249

00:51:34,030 --> 00:51:36,610

are always great to see you here at

1250

00:51:35,320 --> 00:51:38,890

Sydney's skippers in the park it's great

1251

00:51:36,610 --> 00:51:42,750

to see you yeah I always great to see

1252

00:51:38,889 --> 00:51:42,750

you too Richard time for another drink

1253

00:51:43,469 --> 00:51:47,859

are the evenings winding down but that's

1254

00:51:46,090 --> 00:51:50,430

fine I mean a lot of people still here

1255
00:51:47,860 --> 00:51:52,990
socializing and drinking and

1256
00:51:50,429 --> 00:51:56,799
conversation and eating Jessica singer

1257
00:51:52,989 --> 00:51:58,449
hello hi yeah UHN I mean I I kicked this

1258
00:51:56,800 --> 00:52:00,730
off many years ago but you you're the

1259
00:51:58,449 --> 00:52:05,439
woman now who really organizes it aren't

1260
00:52:00,730 --> 00:52:06,900
you I am I I haven't I have step over

1261
00:52:05,440 --> 00:52:10,048
here

1262
00:52:06,900 --> 00:52:12,599
yes i have i have inherited it from you

1263
00:52:10,048 --> 00:52:16,559
in terms of organization and i owe your

1264
00:52:12,599 --> 00:52:19,140
huge debt because you you really you

1265
00:52:16,559 --> 00:52:21,900
really you know set the standard you

1266
00:52:19,139 --> 00:52:24,719
will you did the groundwork you using

1267
00:52:21,900 --> 00:52:26,970
year after year yeah month after month

1268
00:52:24,719 --> 00:52:29,278
you came along from small small small

1269
00:52:26,969 --> 00:52:32,308
larger larger budget and now it's just

1270
00:52:29,278 --> 00:52:35,849
it's just it was a packed house tonight

1271
00:52:32,309 --> 00:52:38,460
i'm ray pleased about that and now it's

1272
00:52:35,849 --> 00:52:40,619
your job well apart everybody's job and

1273
00:52:38,460 --> 00:52:43,619
yours especially to find speakers every

1274
00:52:40,619 --> 00:52:45,088
month and i guess this is a bit of a

1275
00:52:43,619 --> 00:52:46,798
shout out for people in the sydney area

1276
00:52:45,088 --> 00:52:50,519
if you have something interesting of the

1277
00:52:46,798 --> 00:52:52,889
scientific bent to talk about yep not

1278
00:52:50,519 --> 00:52:55,309
necessarily skeptically related not

1279
00:52:52,889 --> 00:53:00,328
necessarily skeptical scientific

1280
00:52:55,309 --> 00:53:04,650
skeptical just interesting not whoo we

1281
00:53:00,329 --> 00:53:08,609
don't like whoo not really but but yeah

1282
00:53:04,650 --> 00:53:12,778
we're open to we're open to all speakers

1283

00:53:08,608 --> 00:53:16,078
you know all topics all areas it's is

1284
00:53:12,778 --> 00:53:17,940
some we're just interested in in people

1285
00:53:16,079 --> 00:53:20,339
who have something interesting to say i

1286
00:53:17,940 --> 00:53:23,039
have to say the people who i approach

1287
00:53:20,338 --> 00:53:25,980
they're so generous with their time yes

1288
00:53:23,039 --> 00:53:27,630
yeah and they're so generous in agreeing

1289
00:53:25,980 --> 00:53:30,690
to come and speak with us it's it's

1290
00:53:27,630 --> 00:53:33,660
fantastic it is and look I mean yeah the

1291
00:53:30,690 --> 00:53:35,460
speech speech is over some people have

1292
00:53:33,659 --> 00:53:37,348
left but look at all the people just at

1293
00:53:35,460 --> 00:53:39,510
tables I got a beer in their hand

1294
00:53:37,349 --> 00:53:41,849
they're all engaged in conversation it's

1295
00:53:39,510 --> 00:53:43,650
exactly what I wanted to do when this

1296
00:53:41,849 --> 00:53:46,410
was kicked off exactly it's also a

1297
00:53:43,650 --> 00:53:49,180

social occasion yes oh yes oh the talk

1298

00:53:46,409 --> 00:53:52,568

is is is one part of it

1299

00:53:49,179 --> 00:53:55,480

and in fact my understanding is that you

1300

00:53:52,568 --> 00:53:57,068

introduced the talk because as the as

1301

00:53:55,480 --> 00:54:00,309

the group was getting bigger and bigger

1302

00:53:57,068 --> 00:54:04,389

and bigger it was it was difficult for

1303

00:54:00,309 --> 00:54:07,510

newcomers to meet people and often

1304

00:54:04,389 --> 00:54:10,960

difficult for shy people to chill mix

1305

00:54:07,510 --> 00:54:12,670

yeah and so we introduced the talk not

1306

00:54:10,960 --> 00:54:15,699

really as a focal point but just as a

1307

00:54:12,670 --> 00:54:18,369

starting point to get people mixing get

1308

00:54:15,699 --> 00:54:21,669

people talking and it's actually quite

1309

00:54:18,369 --> 00:54:24,220

interesting to see you know the energy

1310

00:54:21,670 --> 00:54:27,460

in the room before the talk I energy in

1311

00:54:24,219 --> 00:54:29,739

the room isn't that it's not a I know

1312
00:54:27,460 --> 00:54:31,210
what you mean I think you listeners know

1313
00:54:29,739 --> 00:54:35,379
where your mind we're talking about the

1314
00:54:31,210 --> 00:54:37,568
vibe / the vibe in the room before the

1315
00:54:35,380 --> 00:54:39,430
talk when you know perhaps there are

1316
00:54:37,568 --> 00:54:41,800
some you come and say feel a bit shy and

1317
00:54:39,429 --> 00:54:44,578
then after the top people really loosen

1318
00:54:41,800 --> 00:54:47,440
up it's really nice because we've got a

1319
00:54:44,579 --> 00:54:49,720
nice couple of newcomers over there who

1320
00:54:47,440 --> 00:54:51,670
I spoke to before happily engaged in

1321
00:54:49,719 --> 00:54:53,318
conversation it's a really nice social

1322
00:54:51,670 --> 00:54:55,088
opportunity yeah and I suppose also

1323
00:54:53,318 --> 00:55:00,789
after the talk people have had a few

1324
00:54:55,088 --> 00:55:02,769
drinks too oh really allowing for the

1325
00:55:00,789 --> 00:55:04,630
effects of alcohol and people who's

1326
00:55:02,769 --> 00:55:06,099
sending up yet so the message used if

1327
00:55:04,630 --> 00:55:08,108
you're in the sydney area and you're a

1328
00:55:06,099 --> 00:55:11,470
scientist and engaged some interesting

1329
00:55:08,108 --> 00:55:14,400
research hey contact us you can contact

1330
00:55:11,469 --> 00:55:16,779
us at the skeptics or the skeptic zone

1331
00:55:14,400 --> 00:55:18,338
you never know you might end up getting

1332
00:55:16,780 --> 00:55:20,260
our featured speaker for the month we'd

1333
00:55:18,338 --> 00:55:22,029
love to we'd love to have you and it's a

1334
00:55:20,260 --> 00:55:25,329
great crowd it's a really friendly crowd

1335
00:55:22,030 --> 00:55:28,359
there scientifically literate yes yep

1336
00:55:25,329 --> 00:55:30,369
really nice people and you'll have a

1337
00:55:28,358 --> 00:55:34,808
great night and you get a free dinner I

1338
00:55:30,369 --> 00:55:36,818
am freedom number and drinks as the

1339
00:55:34,809 --> 00:55:39,010
crowd dwindles if we can wrap it up from

1340

00:55:36,818 --> 00:55:40,989
Sydney skeptics in the pub I do get

1341
00:55:39,010 --> 00:55:43,829
emails occasionally from sort of well

1342
00:55:40,989 --> 00:55:45,909
corners of the world asking me about

1343
00:55:43,829 --> 00:55:48,039
setting up the skeptics in the pub

1344
00:55:45,909 --> 00:55:50,588
there's not much to say really just find

1345
00:55:48,039 --> 00:55:52,000
a nice cover and I spend you one that

1346
00:55:50,588 --> 00:55:55,358
preferably has do you know if people

1347
00:55:52,000 --> 00:55:58,119
want dinner or not meetups a good way to

1348
00:55:55,358 --> 00:56:00,130
start this process see if you can get

1349
00:55:58,119 --> 00:56:01,869
like minded people to come along well

1350
00:56:00,130 --> 00:56:20,559
all I can say in Sydney it's been very

1351
00:56:01,869 --> 00:56:22,269
successful rust 3 30 minute video fear

1352
00:56:20,559 --> 00:56:24,640
of the Islamic love justice skeptical

1353
00:56:22,269 --> 00:56:26,500
museum was not just a jutro prohodit

1354
00:56:24,639 --> 00:56:28,029

guarded we need ye lumis clear it up

1355

00:56:26,500 --> 00:56:29,769

with Russian position our podcast

1356

00:56:28,030 --> 00:56:31,750

Petrova hooded cardigan Janie what

1357

00:56:29,769 --> 00:56:34,150

Gospels whites escaped aside a cutter

1358

00:56:31,750 --> 00:56:38,309

bomber still not initiated st at the

1359

00:56:34,150 --> 00:56:40,568

wave over skeptics society Josh guru

1360

00:56:38,309 --> 00:56:42,640

everybody my name is carol and i'm the

1361

00:56:40,568 --> 00:56:43,989

founder of skeptics society russia come

1362

00:56:42,639 --> 00:56:46,210

visit us in moscow and our bi-weekly

1363

00:56:43,989 --> 00:56:48,308

meetings and also listen to our weekly

1364

00:56:46,210 --> 00:56:49,929

podcast which is called skeptic and the

1365

00:56:48,309 --> 00:56:53,430

site where you can find all that the

1366

00:56:49,929 --> 00:56:53,429

skeptics society are you

1367

00:57:09,360 --> 00:57:14,230

thank you for listening to the skeptic

1368

00:57:11,679 --> 00:57:17,440

zone in my everlasting thanks to those

1369
00:57:14,230 --> 00:57:20,289
people amongst you who are subscribed to

1370
00:57:17,440 --> 00:57:23,889
the skeptic zone by paypal at skeptic

1371
00:57:20,289 --> 00:57:26,699
zone TV less than a dollar a week micro

1372
00:57:23,889 --> 00:57:29,379
payments means the show keeps going and

1373
00:57:26,699 --> 00:57:31,149
you can enjoy the show of course whether

1374
00:57:29,380 --> 00:57:33,340
you subscribe or not but I like to think

1375
00:57:31,150 --> 00:57:35,650
those people who do subscribe and

1376
00:57:33,340 --> 00:57:38,440
occasionally very generously send a

1377
00:57:35,650 --> 00:57:40,599
little donation this way I hope those

1378
00:57:38,440 --> 00:57:43,090
people enjoy the show just that little

1379
00:57:40,599 --> 00:57:45,250
bit more in the coming week I'm going to

1380
00:57:43,090 --> 00:57:48,850
be very busy trying to finish off my

1381
00:57:45,250 --> 00:57:50,469
vaccination chronicles documentary of

1382
00:57:48,849 --> 00:57:53,019
Hollister string of bad luck I've had

1383
00:57:50,469 --> 00:57:56,199
six attempts now to film a certain

1384
00:57:53,019 --> 00:57:58,329
segment of the of the documentary each

1385
00:57:56,199 --> 00:58:00,099
time just hasn't worked out due to

1386
00:57:58,329 --> 00:58:02,590
lighting reasons or sound reasons or

1387
00:58:00,099 --> 00:58:04,599
camera reasons or whatever this week

1388
00:58:02,590 --> 00:58:06,940
however I'm pretty confident I'm going

1389
00:58:04,599 --> 00:58:10,119
to wrap that part of the filming up

1390
00:58:06,940 --> 00:58:12,130
maybe I'll get to show those people

1391
00:58:10,119 --> 00:58:15,880
going to the amazing meeting in Las

1392
00:58:12,130 --> 00:58:18,070
Vegas early next month a preview yeah

1393
00:58:15,880 --> 00:58:20,860
yeah why not if you're coming to the

1394
00:58:18,070 --> 00:58:23,380
amazing meeting and you see me come over

1395
00:58:20,860 --> 00:58:25,150
and say hello I'd love to meet you I'm

1396
00:58:23,380 --> 00:58:26,650
gonna be very busy at the amazing

1397

00:58:25,150 --> 00:58:29,559
meeting I think running around with dr.

1398
00:58:26,650 --> 00:58:31,329
Karl cruising iski and having a chat to

1399
00:58:29,559 --> 00:58:33,880
James Randi and all the good stuff all

1400
00:58:31,329 --> 00:58:35,829
the good fun stuff that goes on at tam

1401
00:58:33,880 --> 00:58:38,019
but for this week this is Richard

1402
00:58:35,829 --> 00:58:44,319
Saunders signing off from Sydney

1403
00:58:38,019 --> 00:58:46,039
Australia you've been listening to the

1404
00:58:44,320 --> 00:58:50,870
skeptic zone

1405
00:58:46,039 --> 00:58:53,900
visit our website at [www skeptics on TV](http://www.skepticsontv.com)

1406
00:58:50,869 --> 00:58:56,529
for comments contacts and extra video

1407
00:58:53,900 --> 00:58:56,530
reports