

1
00:00:05,929 --> 00:00:13,699
welcome to the skeptic zone the podcast

2
00:00:09,119 --> 00:00:13,699
from Australia for science and reason

3
00:00:23,210 --> 00:00:32,789
yes it's the skeptic zone episode number

4
00:00:26,989 --> 00:00:36,149
145 for the 29th of July 2011 Richard

5
00:00:32,789 --> 00:00:39,808
Saunders here with you jet lag over and

6
00:00:36,149 --> 00:00:41,549
done with from Sydney Australia now if I

7
00:00:39,808 --> 00:00:48,140
was looking for a word to sum up this

8
00:00:41,549 --> 00:00:52,669
week's show it's I ecliptic yeah an

9
00:00:48,140 --> 00:00:55,530
eclectic show for you today a mixed bag

10
00:00:52,670 --> 00:00:56,910
like a box of chocolates you never know

11
00:00:55,530 --> 00:00:58,109
what you're going to get but we know

12
00:00:56,909 --> 00:01:00,659
what we're getting this week we're

13
00:00:58,109 --> 00:01:04,519
getting dr. Richie reports speaking with

14
00:01:00,659 --> 00:01:08,159
Nobel laureate professor peter doherly

15
00:01:04,519 --> 00:01:10,590
what a coup for dr. Richie professor

16
00:01:08,159 --> 00:01:13,890
Dougherty is involved with microbiology

17
00:01:10,590 --> 00:01:16,770
and immunization a kindred spirit for

18
00:01:13,890 --> 00:01:18,780
dr. Richie and a great interview for the

19
00:01:16,769 --> 00:01:21,899
rest of us coming up at the top of the

20
00:01:18,780 --> 00:01:25,129
show and following that we speak to our

21
00:01:21,900 --> 00:01:28,190
good friends from the Norwegian skeptics

22
00:01:25,129 --> 00:01:32,310
merit Simonson and her brother Ben dick

23
00:01:28,189 --> 00:01:34,319
now let's make sure their hearts go out

24
00:01:32,310 --> 00:01:36,659
to the people of noise because since the

25
00:01:34,319 --> 00:01:38,609
last episode of the zone went out not

26
00:01:36,659 --> 00:01:40,920
very long after the last episode of the

27
00:01:38,609 --> 00:01:45,000
zone went out we all heard that terrible

28
00:01:40,920 --> 00:01:47,670
news from Norway first the bombing and

29

00:01:45,000 --> 00:01:50,489
then shortly thereafter the horrible

30
00:01:47,670 --> 00:01:52,740
shooting a terrible tragedy in Norway is

31
00:01:50,489 --> 00:01:55,259
certainly in our thoughts at the moment

32
00:01:52,739 --> 00:01:57,479
so I hope you find this interview with

33
00:01:55,260 --> 00:02:01,320
the Norwegian skeptics particularly

34
00:01:57,480 --> 00:02:04,560
poignant in this week and that was from

35
00:02:01,319 --> 00:02:07,709
Tam Las Vegas following that is a short

36
00:02:04,560 --> 00:02:11,069
sort of catch-up report at tam las vegas

37
00:02:07,709 --> 00:02:14,789
with dr. H in myself chewing the fat

38
00:02:11,068 --> 00:02:17,419
talking about tan and to round off the

39
00:02:14,789 --> 00:02:20,929
show yes it's Maynard spooky

40
00:02:17,419 --> 00:02:26,750
action and this week may not speak to

41
00:02:20,930 --> 00:02:31,310
Java hmm Jeb JEB is on pay-tv he is

42
00:02:26,750 --> 00:02:34,849
recently put out a show jabbbers curious

43
00:02:31,310 --> 00:02:37,939

world covering well-known paranormal

44

00:02:34,849 --> 00:02:40,250

incidents in Australia Yowies aliens big

45

00:02:37,939 --> 00:02:43,849

cats UFOs and ghosts and all that sort

46

00:02:40,250 --> 00:02:48,289

of stuff so Maynard jabs to jabber about

47

00:02:43,849 --> 00:02:50,599

his show and what he discovered so there

48

00:02:48,289 --> 00:02:53,959

you are folks like I said an eclectic

49

00:02:50,599 --> 00:02:56,239

show for you this week starting off with

50

00:02:53,959 --> 00:02:59,209

our fantastic interview with Nobel

51

00:02:56,239 --> 00:03:00,769

laureate professor peter doherty so

52

00:02:59,209 --> 00:03:03,370

while we're all enjoying that I'm gonna

53

00:03:00,769 --> 00:03:07,340

run downstairs and grab myself a mug of

54

00:03:03,370 --> 00:03:10,580

instant soup yeah chicken soup yeah

55

00:03:07,340 --> 00:03:15,129

chicken noodle soup mmm okay that'll do

56

00:03:10,580 --> 00:03:15,130

and let you enjoy the skeptics

57

00:03:29,659 --> 00:03:39,210

now it's time for dr. Rachel reports

58
00:03:33,030 --> 00:03:41,759
with dr. Rachel Dunlop hello Lisbon's

59
00:03:39,210 --> 00:03:43,200
and welcome to dr. Reggie reports well

60
00:03:41,759 --> 00:03:44,699
this week I'm very pleased to present

61
00:03:43,199 --> 00:03:47,189
for you an interview with professor

62
00:03:44,699 --> 00:03:49,379
peter doherty who is best known for

63
00:03:47,189 --> 00:03:52,199
receiving a nobel prize in physiology or

64
00:03:49,379 --> 00:03:54,240
medicine in 1996 along with his

65
00:03:52,199 --> 00:03:55,919
colleague Rob Zinka Naugle for

66
00:03:54,240 --> 00:03:57,900
uncovering the mechanism by which the

67
00:03:55,919 --> 00:04:00,780
immune system recognizes virus-infected

68
00:03:57,900 --> 00:04:03,230
cells which leads to a cascade of

69
00:04:00,780 --> 00:04:05,580
fighting killer cells known as T cells

70
00:04:03,229 --> 00:04:07,109
professor Dougherty is still active in

71
00:04:05,580 --> 00:04:08,760
research and divides his time between

72
00:04:07,110 --> 00:04:10,260
the University of Melbourne stir

73
00:04:08,759 --> 00:04:12,780
partment of microbiology and immunology

74
00:04:10,259 --> 00:04:15,840
and thus in Jude Children's Research

75
00:04:12,780 --> 00:04:17,910
Hospital in Memphis Tennessee his

76
00:04:15,840 --> 00:04:20,430
research continues today on trying to

77
00:04:17,910 --> 00:04:22,080
understand how t cells function in an

78
00:04:20,430 --> 00:04:24,090
effort to develop new vaccination

79
00:04:22,079 --> 00:04:27,000
strategies including as he'll tell us

80
00:04:24,089 --> 00:04:29,489
today maybe a cross reactive or generic

81
00:04:27,000 --> 00:04:31,170
influenza vaccine professor Dougherty is

82
00:04:29,490 --> 00:04:33,300
a prolific publisher and has written

83
00:04:31,170 --> 00:04:35,100
several books one of which i have read

84
00:04:33,300 --> 00:04:37,110
myself at the beginners guide to winning

85
00:04:35,100 --> 00:04:39,090
a Nobel Prize and I can thoroughly

86

00:04:37,110 --> 00:04:41,400
recommend it professor Dougherty is

87
00:04:39,089 --> 00:04:43,829
giving a free public lecture on Tuesday

88
00:04:41,399 --> 00:04:46,349
the second of august in canberra which

89
00:04:43,829 --> 00:04:48,870
will be live streamed from 6pm and check

90
00:04:46,350 --> 00:04:52,860
our show notes for more details so here

91
00:04:48,870 --> 00:04:54,780
we are with professor peter doherty so

92
00:04:52,860 --> 00:04:56,460
joining me today on the skeptic zone is

93
00:04:54,779 --> 00:04:58,829
professor peter doherty from the

94
00:04:56,459 --> 00:05:02,519
university of melbourne welcome Peter to

95
00:04:58,829 --> 00:05:04,379
the skeptic zone oh hi Rocio now I'm

96
00:05:02,519 --> 00:05:07,799
calling you today because you're giving

97
00:05:04,379 --> 00:05:11,250
a lecture next week in Canberra entitled

98
00:05:07,800 --> 00:05:14,610
killer viruses and killer T cells and in

99
00:05:11,250 --> 00:05:18,000
that you mentioned the eradication of

100
00:05:14,610 --> 00:05:19,830

Ryan de pest now at the end of June this

101

00:05:18,000 --> 00:05:23,250

year the who announced that they had

102

00:05:19,829 --> 00:05:26,279

finally eradicated this bovine disease

103

00:05:23,250 --> 00:05:28,529

and it killed millions and millions of

104

00:05:26,279 --> 00:05:31,589

Catalan and hoofed animals over the

105

00:05:28,529 --> 00:05:33,899

years now you think as a result of this

106

00:05:31,589 --> 00:05:35,819

that we can now also eradicate measles

107

00:05:33,899 --> 00:05:39,959

so how would we

108

00:05:35,819 --> 00:05:43,500

eradicate measles yeah well the

109

00:05:39,959 --> 00:05:46,049

rinderpest viruses it caused a decent

110

00:05:43,500 --> 00:05:49,740

massive devastation in Europe in the

111

00:05:46,050 --> 00:05:51,960

18th and 19th century and then in Africa

112

00:05:49,740 --> 00:05:56,210

it was still causing major problems up

113

00:05:51,959 --> 00:05:59,219

until the 1980s and the OIE the

114

00:05:56,209 --> 00:06:01,079

organization international deputy Joe

115
00:05:59,220 --> 00:06:03,450
teak and the FAO the Food and

116
00:06:01,079 --> 00:06:07,009
Agriculture Organization got together

117
00:06:03,449 --> 00:06:10,409
and organized big campaign to eradicate

118
00:06:07,009 --> 00:06:14,250
the disease it's caused by our

119
00:06:10,410 --> 00:06:15,990
morbillivirus and the vaccine that was

120
00:06:14,250 --> 00:06:17,850
used with the relative simple vaccine

121
00:06:15,990 --> 00:06:20,370
developed in the 1960s by guy called

122
00:06:17,850 --> 00:06:22,620
water flower right and they also did a

123
00:06:20,370 --> 00:06:24,540
lot of pretty sophisticated epidemiology

124
00:06:22,620 --> 00:06:26,370
molecular epidemiology to see where

125
00:06:24,540 --> 00:06:28,560
different strains the what causing

126
00:06:26,370 --> 00:06:32,579
diseases came from and they got rid of

127
00:06:28,560 --> 00:06:35,189
the disease some years back now and the

128
00:06:32,579 --> 00:06:37,939
official announcement was in Rome in

129
00:06:35,189 --> 00:06:43,620
july of this year they asked me along

130
00:06:37,939 --> 00:06:46,139
because i'm the first veterinarian to

131
00:06:43,620 --> 00:06:48,870
win a Nobel Prize and so I had to say a

132
00:06:46,139 --> 00:06:51,000
few words and we really was a big

133
00:06:48,870 --> 00:06:53,189
celebration of a big occasion another

134
00:06:51,000 --> 00:06:55,199
thing about rinderpest virus is that

135
00:06:53,189 --> 00:06:58,889
it's very closely related to human

136
00:06:55,199 --> 00:07:01,199
measles virus they both diverged from a

137
00:06:58,889 --> 00:07:03,719
common ancestor about ten to twelve

138
00:07:01,199 --> 00:07:06,000
hundred years back it's believed and so

139
00:07:03,720 --> 00:07:08,820
the point is if we can get rid of

140
00:07:06,000 --> 00:07:11,579
rinderpest a veterinary disease which

141
00:07:08,819 --> 00:07:13,529
also goes into wildlife it feeds pretty

142
00:07:11,579 --> 00:07:16,469
obvious we could get rid of measles

143

00:07:13,529 --> 00:07:20,489
virus but the big problem is to get

144
00:07:16,470 --> 00:07:23,430
people to vaccinate their kids yeah so I

145
00:07:20,490 --> 00:07:25,379
guess with measles I mean currently

146
00:07:23,430 --> 00:07:26,730
there are actually a pocket of outbreaks

147
00:07:25,379 --> 00:07:28,949
all over the world and in fact in

148
00:07:26,730 --> 00:07:31,980
Auckland at the moment there's a 76

149
00:07:28,949 --> 00:07:33,899
cases and the media is saying that

150
00:07:31,980 --> 00:07:37,259
almost all of those that are infected

151
00:07:33,899 --> 00:07:40,439
and not immunized so in terms of the

152
00:07:37,259 --> 00:07:42,360
possibility of eradicated measles how do

153
00:07:40,439 --> 00:07:44,250
you see the anti-vaccination movement as

154
00:07:42,360 --> 00:07:47,550
an impediment to the eradication of

155
00:07:44,250 --> 00:07:48,750
measles well of course it's a disaster I

156
00:07:47,550 --> 00:07:50,569
mean we

157
00:07:48,750 --> 00:07:52,680

moved away from the idea that

158

00:07:50,569 --> 00:07:54,930
vaccinating children some sort of

159

00:07:52,680 --> 00:07:56,400
collective responsibility and as a

160

00:07:54,930 --> 00:07:58,470
result of that we're getting regular

161

00:07:56,399 --> 00:08:00,509
incursions of measles we're getting

162

00:07:58,470 --> 00:08:03,480
whooping cough and heaven knows what

163

00:08:00,509 --> 00:08:05,909
next is the tendency continues we know

164

00:08:03,480 --> 00:08:08,129
that when vaccination systems break down

165

00:08:05,910 --> 00:08:10,740
you get all sorts of diseases coming up

166

00:08:08,129 --> 00:08:14,339
for instance in Soviet Russia when the

167

00:08:10,740 --> 00:08:15,780
old soviet russia broke down basically a

168

00:08:14,339 --> 00:08:17,789
lot of kids were not being vaccinated

169

00:08:15,779 --> 00:08:20,369
we're having in cases of dysentery and

170

00:08:17,790 --> 00:08:22,439
all sorts of things with me drools we've

171

00:08:20,370 --> 00:08:24,449
had situations where it's been so a

172
00:08:22,439 --> 00:08:27,899
terrible problems in a South American

173
00:08:24,449 --> 00:08:30,209
country they've taken great efforts to

174
00:08:27,899 --> 00:08:32,728
control the infection and then the

175
00:08:30,209 --> 00:08:35,309
diseases being reintroduced again from

176
00:08:32,729 --> 00:08:36,960
Western countries by people who are

177
00:08:35,309 --> 00:08:39,538
traveling and haven't vaccinated their

178
00:08:36,960 --> 00:08:41,879
children they have carried the disease

179
00:08:39,538 --> 00:08:44,669
and again and so it's kind of a disaster

180
00:08:41,879 --> 00:08:47,610
how we reach people on this and how we

181
00:08:44,669 --> 00:08:51,019
educate them it seems extremely

182
00:08:47,610 --> 00:08:53,839
difficult that's such a lot of

183
00:08:51,019 --> 00:08:57,000
misinformation and misconception that

184
00:08:53,839 --> 00:09:00,450
it's very hard to cut through well I

185
00:08:57,000 --> 00:09:02,220
guess an example of a vaccine

186
00:09:00,450 --> 00:09:04,290
preventable disease occurring in

187
00:09:02,220 --> 00:09:06,300
Australia recently was a 22 year old

188
00:09:04,289 --> 00:09:09,120
girl died from diphtheria and Brisbane

189
00:09:06,299 --> 00:09:10,559
only a few months ago and it turned out

190
00:09:09,120 --> 00:09:12,779
that she probably didn't even know she

191
00:09:10,559 --> 00:09:14,669
wasn't vaccinated and her friend had

192
00:09:12,779 --> 00:09:15,750
been obviously and then imported it back

193
00:09:14,669 --> 00:09:17,189
to Australia because it's now an

194
00:09:15,750 --> 00:09:20,250
important disease in his country

195
00:09:17,190 --> 00:09:23,040
diphtheria isn't it I believe so and

196
00:09:20,250 --> 00:09:24,629
that's another tragedy of course if you

197
00:09:23,039 --> 00:09:27,689
don't vaccinate someone when they're a

198
00:09:24,629 --> 00:09:30,389
child they may be quite unaware and then

199
00:09:27,690 --> 00:09:32,520
travel say to a area of the world where

200

00:09:30,389 --> 00:09:36,088
a disease that we don't see very much is

201
00:09:32,519 --> 00:09:37,529
is endemic in the spreading and they can

202
00:09:36,089 --> 00:09:41,040
come down with conditions like

203
00:09:37,529 --> 00:09:43,169
poliomyelitis and so forth so we hope to

204
00:09:41,039 --> 00:09:46,319
get thalia myelitis eradicated from the

205
00:09:43,169 --> 00:09:48,179
world that's it's reasonably close i

206
00:09:46,320 --> 00:09:50,129
think has been an enormous campaign

207
00:09:48,179 --> 00:09:52,439
that's been going for many years but we

208
00:09:50,129 --> 00:09:54,689
had hope to get rid of it by 2002 and

209
00:09:52,440 --> 00:09:57,089
it's still not completely gone now a

210
00:09:54,690 --> 00:10:01,080
part of thats been due to disruption in

211
00:09:57,089 --> 00:10:02,070
war zones and so forth but it hopefully

212
00:10:01,080 --> 00:10:04,620
will go

213
00:10:02,070 --> 00:10:07,500
and measles could be eradicated but

214
00:10:04,620 --> 00:10:10,620

everyone would have to bake tonight now

215

00:10:07,500 --> 00:10:12,600

can you explain just briefly professor

216

00:10:10,620 --> 00:10:14,159

about herd immunity because I think a

217

00:10:12,600 --> 00:10:16,500

lot of people who don't vaccinate their

218

00:10:14,159 --> 00:10:18,059

children don't believe in that the

219

00:10:16,500 --> 00:10:19,799

concept of herd immunity and that's what

220

00:10:18,059 --> 00:10:21,569

we really need to eradicate these sort

221

00:10:19,799 --> 00:10:23,849

of vaccine-preventable diseases don't

222

00:10:21,570 --> 00:10:25,950

like a lot of people who don't vaccinate

223

00:10:23,850 --> 00:10:28,440

their children are relatively protected

224

00:10:25,950 --> 00:10:30,540

because of your herd immunity if we can

225

00:10:28,440 --> 00:10:34,590

keep vaccination rates up at about

226

00:10:30,539 --> 00:10:38,129

eighty percent then the viruses that

227

00:10:34,590 --> 00:10:40,920

only within human populations generally

228

00:10:38,129 --> 00:10:42,629

don't cause a major problem so it's

229
00:10:40,919 --> 00:10:44,669
always been the case that some people

230
00:10:42,629 --> 00:10:47,639
have stood out from vaccinations for

231
00:10:44,669 --> 00:10:48,750
religious reasons or whatever but if you

232
00:10:47,639 --> 00:10:51,899
keep it up around the eighty percent

233
00:10:48,750 --> 00:10:55,080
level I think is the general accepted

234
00:10:51,899 --> 00:10:57,149
figure them then you're okay but when it

235
00:10:55,080 --> 00:10:59,580
falls much below that then you start to

236
00:10:57,149 --> 00:11:01,799
get problems and as you know we've had

237
00:10:59,580 --> 00:11:03,690
this from hooping coffins of within this

238
00:11:01,799 --> 00:11:07,319
country that should never actually occur

239
00:11:03,690 --> 00:11:11,940
but it's just part of the part of the

240
00:11:07,320 --> 00:11:15,210
human tragedy I think that we don't

241
00:11:11,940 --> 00:11:17,640
accept now the opinion of professionals

242
00:11:15,210 --> 00:11:19,889
who actually started racing when we come

243
00:11:17,639 --> 00:11:22,500
up with our own own view of the world on

244
00:11:19,889 --> 00:11:23,909
issues like vaccination I think one of

245
00:11:22,500 --> 00:11:26,070
the other problems too is people don't

246
00:11:23,909 --> 00:11:29,909
understand the risk-benefit ratio and I

247
00:11:26,070 --> 00:11:33,030
suppose that there was a bit of an

248
00:11:29,909 --> 00:11:36,569
increase in adverse reactions last year

249
00:11:33,029 --> 00:11:39,089
to their CSL flu vaccination part of the

250
00:11:36,570 --> 00:11:41,820
prop out of the problem is that is that

251
00:11:39,090 --> 00:11:44,070
if you don't see the diseases and then

252
00:11:41,820 --> 00:11:47,010
you have your child vaccinated and the

253
00:11:44,070 --> 00:11:49,260
child does react then that their cross

254
00:11:47,009 --> 00:11:51,120
one note that I'm sofa with for a time

255
00:11:49,259 --> 00:11:53,009
which they can be after vaccination

256
00:11:51,120 --> 00:11:55,230
because of course of course an immune

257

00:11:53,009 --> 00:11:56,580
response and immune responses cause the

258
00:11:55,230 --> 00:11:59,550
production of all sorts of chemicals

259
00:11:56,580 --> 00:12:02,040
chemical mediators like cytokines and

260
00:11:59,549 --> 00:12:04,559
chemokines now that can actually make

261
00:12:02,039 --> 00:12:06,029
you feel a bit lousy for a while much

262
00:12:04,559 --> 00:12:08,189
less so than if you actually get the

263
00:12:06,029 --> 00:12:11,069
infection not so that's part of the

264
00:12:08,190 --> 00:12:12,870
issue is that people will react against

265
00:12:11,070 --> 00:12:15,360
that then of course there's been this

266
00:12:12,870 --> 00:12:16,080
whole thing about the measles mumps

267
00:12:15,360 --> 00:12:19,590
rubella

268
00:12:16,080 --> 00:12:21,420
the MMR vaccine and the under claims

269
00:12:19,590 --> 00:12:23,970
that it's supposed to be associated with

270
00:12:21,419 --> 00:12:26,639
the development of autism for in fact

271
00:12:23,970 --> 00:12:29,250

people had gone back and looked at that

272

00:12:26,639 --> 00:12:30,870

with with tremendous thoroughness and

273

00:12:29,250 --> 00:12:33,360

that's been a very large amounts of

274

00:12:30,870 --> 00:12:35,279

money it was a very limited report that

275

00:12:33,360 --> 00:12:38,430

first claimed us I think we're coming

276

00:12:35,279 --> 00:12:39,809

like 10 or 11 cases and all except one

277

00:12:38,429 --> 00:12:41,969

of the authors I think have now

278

00:12:39,809 --> 00:12:44,579

withdrawn the claim there's been no

279

00:12:41,970 --> 00:12:46,259

support for it at all that doesn't of

280

00:12:44,580 --> 00:12:48,900

course rule out the possibility that

281

00:12:46,259 --> 00:12:51,000

could be something somewhere because you

282

00:12:48,899 --> 00:12:53,519

always wonder whether there might be

283

00:12:51,000 --> 00:12:57,230

someone with a particular genetic makeup

284

00:12:53,519 --> 00:13:01,799

than might have an adverse reaction to a

285

00:12:57,230 --> 00:13:04,710

vaccine so nothing is absolutely safe

286
00:13:01,799 --> 00:13:06,929
and that includes vaccines and that

287
00:13:04,710 --> 00:13:08,580
requires to understand that you need to

288
00:13:06,929 --> 00:13:11,129
think about risk-benefit analysis

289
00:13:08,580 --> 00:13:15,720
basically what what what is the relevant

290
00:13:11,129 --> 00:13:17,730
risk and that is not a sort of idea

291
00:13:15,720 --> 00:13:20,940
that's prevalent in our population I

292
00:13:17,730 --> 00:13:23,129
think now you were you're on the team or

293
00:13:20,940 --> 00:13:26,490
the Task Force that investigated the

294
00:13:23,129 --> 00:13:28,740
issues with the CSL flu vax which caused

295
00:13:26,490 --> 00:13:33,360
increased adverse events and kids under

296
00:13:28,740 --> 00:13:35,430
five yeah I believe that that that you

297
00:13:33,360 --> 00:13:37,409
actually weren't able to identify what

298
00:13:35,429 --> 00:13:39,120
exactly was causing that what was the

299
00:13:37,409 --> 00:13:41,279
outcome of other things I got a pretty

300
00:13:39,120 --> 00:13:43,259
fair idea what might be going on the

301
00:13:41,279 --> 00:13:45,329
thing I was involved when was a small

302
00:13:43,259 --> 00:13:47,279
technical group really that was asked

303
00:13:45,330 --> 00:13:49,710
and look to see whether they could see

304
00:13:47,279 --> 00:13:52,620
any reason to this basically lab-based

305
00:13:49,710 --> 00:13:54,120
scientists and medical doctors who were

306
00:13:52,620 --> 00:13:56,940
looking at the broader picture of the

307
00:13:54,120 --> 00:13:58,679
epidemiology of the infection basically

308
00:13:56,940 --> 00:14:01,710
there was a real signal and it seemed

309
00:13:58,679 --> 00:14:03,509
what was happening was that the CEO cell

310
00:14:01,710 --> 00:14:07,290
vaccine was giving it very powerful

311
00:14:03,509 --> 00:14:09,330
immune response and it was to some

312
00:14:07,289 --> 00:14:12,199
extent what we can react to genetic and

313
00:14:09,330 --> 00:14:14,759
that is it was producing so much in this

314

00:14:12,200 --> 00:14:17,129
chemokines cytokine type of stuff that

315
00:14:14,759 --> 00:14:18,779
we get in any infection that it was

316
00:14:17,129 --> 00:14:21,090
causing some fever and when you give

317
00:14:18,779 --> 00:14:22,769
cause fever in young children a

318
00:14:21,090 --> 00:14:26,190
proportion of them going to convulsions

319
00:14:22,769 --> 00:14:28,649
and so it it was picked up fairly

320
00:14:26,190 --> 00:14:30,779
quickly and

321
00:14:28,649 --> 00:14:33,299
the vaccine was pretty quickly withdrawn

322
00:14:30,778 --> 00:14:35,308
and a safe vaccine was instigated and

323
00:14:33,299 --> 00:14:37,378
said that there's nothing basically

324
00:14:35,308 --> 00:14:40,679
wrong with the CSL vaccine it was just a

325
00:14:37,379 --> 00:14:41,938
very powerful vaccine and it turned out

326
00:14:40,679 --> 00:14:44,429
that it was just a bit too much for

327
00:14:41,938 --> 00:14:46,558
little kids they replaced it I think

328
00:14:44,429 --> 00:14:49,469

with the sanofi vaccine which doesn't

329

00:14:46,558 --> 00:14:53,368

get such a strong response and then it

330

00:14:49,470 --> 00:14:55,528

was safe to vaccinate small children so

331

00:14:53,369 --> 00:14:59,100

if flu season is upon us at the moment

332

00:14:55,528 --> 00:15:01,289

professor and I guess when you actually

333

00:14:59,100 --> 00:15:03,240

can be very dangerous and with the

334

00:15:01,289 --> 00:15:05,458

recent swine flu epidemics that went

335

00:15:03,240 --> 00:15:07,318

around the world some people would have

336

00:15:05,458 --> 00:15:09,508

said that the preparation done by

337

00:15:07,318 --> 00:15:13,948

governments was an overreaction that we

338

00:15:09,509 --> 00:15:15,419

made all this vaccine we made we asked

339

00:15:13,948 --> 00:15:18,149

people to get vaccinated and then

340

00:15:15,419 --> 00:15:20,789

nothing happened but if perhaps that

341

00:15:18,149 --> 00:15:23,578

virus hadn't turned out to be had turned

342

00:15:20,789 --> 00:15:24,748

out to be more virulent than it was what

343
00:15:23,578 --> 00:15:26,278
would have happened if we hadn't done

344
00:15:24,749 --> 00:15:29,249
that if we weren't prepared for that

345
00:15:26,278 --> 00:15:31,860
epidemic the thing about influenza

346
00:15:29,249 --> 00:15:34,470
pandemics is you can never really be

347
00:15:31,860 --> 00:15:36,620
quite sure what they'll do you can't

348
00:15:34,470 --> 00:15:38,428
know in prediction in science is always

349
00:15:36,620 --> 00:15:40,649
probabilistic I mean you can never

350
00:15:38,428 --> 00:15:42,208
absolutely predict anything and so

351
00:15:40,649 --> 00:15:44,159
you're always stuck with the situation

352
00:15:42,208 --> 00:15:47,458
you don't know what's going to happen in

353
00:15:44,159 --> 00:15:51,299
actual fact the perception that the h1n1

354
00:15:47,458 --> 00:15:54,208
swine flu was pretty mild is is not

355
00:15:51,299 --> 00:15:58,198
really quite correct the fact of the

356
00:15:54,208 --> 00:16:00,568
matter was that it didn't affect older

357
00:15:58,198 --> 00:16:02,789
people normally the people is to come to

358
00:16:00,568 --> 00:16:05,759
influenza and an influenza epidemic or

359
00:16:02,789 --> 00:16:08,849
pandemic people are in their sixties and

360
00:16:05,759 --> 00:16:10,438
seventies because their immune systems

361
00:16:08,850 --> 00:16:12,298
Awakening and they're much more

362
00:16:10,438 --> 00:16:14,428
susceptible to respiratory infection I

363
00:16:12,298 --> 00:16:17,009
mean if you took the sars outbreak for

364
00:16:14,428 --> 00:16:18,870
instance it cost about ten percent

365
00:16:17,009 --> 00:16:22,199
mortality in young people and fifty

366
00:16:18,870 --> 00:16:24,659
percent mortality in old people so with

367
00:16:22,198 --> 00:16:27,118
this influenza virus the swine influenza

368
00:16:24,659 --> 00:16:29,428
virus it turned out the people who were

369
00:16:27,119 --> 00:16:31,439
born before 1950 had cross-reactive

370
00:16:29,428 --> 00:16:33,899
immunity and been exposed to something

371

00:16:31,438 --> 00:16:36,748
rather similar way back and they still

372
00:16:33,899 --> 00:16:39,839
had immunity to it and as a result of

373
00:16:36,749 --> 00:16:41,580
that the deaths rates and the infection

374
00:16:39,839 --> 00:16:45,390
rates in older people were really

375
00:16:41,580 --> 00:16:47,820
low but what we did see is a reasonable

376
00:16:45,389 --> 00:16:50,939
amount of extremely severe disease in

377
00:16:47,820 --> 00:16:53,580
fit healthy young adult you know if you

378
00:16:50,940 --> 00:16:55,380
talk about this stuff and you you find

379
00:16:53,580 --> 00:16:57,360
on talkback radio you're talking to a

380
00:16:55,379 --> 00:16:59,549
nanny vaccine person they say well I

381
00:16:57,360 --> 00:17:02,279
know how to keep my child fit and

382
00:16:59,549 --> 00:17:05,338
healthy and so forth but actually with

383
00:17:02,279 --> 00:17:06,809
influenza both in this outbreak and in

384
00:17:05,338 --> 00:17:08,700
the nineteen eighteen outbreak that

385
00:17:06,809 --> 00:17:10,169

killed a lot of people a lot of people

386

00:17:08,700 --> 00:17:12,660

who are particularly susceptible with

387

00:17:10,170 --> 00:17:14,190

young people and that probably is

388

00:17:12,660 --> 00:17:16,019

because they're making too strong an

389

00:17:14,190 --> 00:17:19,080

immune response and they're getting some

390

00:17:16,019 --> 00:17:23,099

of this what we call cytokine effect and

391

00:17:19,079 --> 00:17:25,619

so we we had a number of young healthy

392

00:17:23,099 --> 00:17:29,689

people who only survived because I put

393

00:17:25,619 --> 00:17:31,829

on ECMO the extracorporeal membrane

394

00:17:29,690 --> 00:17:35,309

oxygenation that heart-lung type

395

00:17:31,829 --> 00:17:38,039

machines and also we had six times as

396

00:17:35,309 --> 00:17:40,259

many pregnant women in hospital in

397

00:17:38,039 --> 00:17:43,409

critical care beds so there was

398

00:17:40,259 --> 00:17:45,839

something really going on and we don't

399

00:17:43,410 --> 00:17:47,370

fully understand what that was we're

400
00:17:45,839 --> 00:17:49,529
getting a much better understanding of

401
00:17:47,369 --> 00:17:51,209
how influential works using modern

402
00:17:49,529 --> 00:17:54,660
molecular medicine techniques but we

403
00:17:51,210 --> 00:17:56,549
still we've still got a way to go well

404
00:17:54,660 --> 00:17:59,370
it's part of your Nobel Prize discovery

405
00:17:56,549 --> 00:18:01,379
you characterized how it is that t-cells

406
00:17:59,369 --> 00:18:03,449
which is also known as killer cells in

407
00:18:01,380 --> 00:18:06,180
our immune system recognize specific

408
00:18:03,450 --> 00:18:09,920
molecules on other cells that are called

409
00:18:06,180 --> 00:18:12,990
MHC molecules and this was how that they

410
00:18:09,920 --> 00:18:14,130
induced an immune response now part of

411
00:18:12,990 --> 00:18:16,620
the work that you're interested in doing

412
00:18:14,130 --> 00:18:18,770
now with your team in Australia in

413
00:18:16,619 --> 00:18:21,779
America is developing a cross reactive

414
00:18:18,769 --> 00:18:23,700
influenza vaccine can you tell us a bit

415
00:18:21,779 --> 00:18:27,779
a bit about that and why would that be

416
00:18:23,700 --> 00:18:30,569
beneficial yeah that the issue with the

417
00:18:27,779 --> 00:18:32,039
influenza vaccines is because of viruses

418
00:18:30,569 --> 00:18:34,169
change all the time they shanked by

419
00:18:32,039 --> 00:18:36,119
mutation which we called antigenic drift

420
00:18:34,170 --> 00:18:38,610
and they can also change but change by

421
00:18:36,119 --> 00:18:40,469
reassortment influenza viruses have a

422
00:18:38,609 --> 00:18:42,959
genome with eight different segments as

423
00:18:40,470 --> 00:18:45,029
you intact itself simultaneously with

424
00:18:42,960 --> 00:18:47,370
tubular viruses they can repackage and

425
00:18:45,029 --> 00:18:48,690
you get new flood flu viruses out and

426
00:18:47,369 --> 00:18:50,759
that's been the source of some of the

427
00:18:48,690 --> 00:18:53,370
new pandemic viruses including the swine

428

00:18:50,759 --> 00:18:54,509
flu one where to swine blight viruses

429
00:18:53,369 --> 00:18:56,969
got together that would

430
00:18:54,509 --> 00:18:58,950
current Andrea sorted and then out came

431
00:18:56,970 --> 00:19:03,509
a virus which was very infectious for

432
00:18:58,950 --> 00:19:06,240
him so the issue of flu vaccines means

433
00:19:03,509 --> 00:19:09,750
that if you get a sudden flu outbreak as

434
00:19:06,240 --> 00:19:12,210
we did with the swine flu one then you

435
00:19:09,750 --> 00:19:15,839
don't have vaccine and it takes about

436
00:19:12,210 --> 00:19:19,319
six months to make vaccine the the 19 /

437
00:19:15,839 --> 00:19:21,119
2009 swine flu was detected in i think

438
00:19:19,319 --> 00:19:25,109
it was in Mexico in California about

439
00:19:21,119 --> 00:19:27,209
April 2009 by may 2009 was in melbourne

440
00:19:25,109 --> 00:19:29,459
australia and by September it was all

441
00:19:27,210 --> 00:19:31,110
around the world and we didn't get any

442
00:19:29,460 --> 00:19:34,500

vaccine at the people vows before

443

00:19:31,109 --> 00:19:37,139

September basically and you know there

444

00:19:34,500 --> 00:19:39,029

was a big goes in Canada in October of

445

00:19:37,140 --> 00:19:41,220

that year and there was a big furor

446

00:19:39,029 --> 00:19:42,960

because the young boy had died from it

447

00:19:41,220 --> 00:19:45,990

and people couldn't get vaccine and our

448

00:19:42,960 --> 00:19:47,610

very upset about it now we made a lot of

449

00:19:45,990 --> 00:19:49,650

vaccine and the vaccine turned out to be

450

00:19:47,609 --> 00:19:52,399

very energetic it was actually a very

451

00:19:49,650 --> 00:19:55,110

good vaccine in factors except to live

452

00:19:52,400 --> 00:19:56,759

the situation we discussed earlier with

453

00:19:55,109 --> 00:20:00,419

little children and Western Australia

454

00:19:56,759 --> 00:20:02,819

where is really too strong and so so the

455

00:20:00,420 --> 00:20:05,550

vaccine worked pretty well the current

456

00:20:02,819 --> 00:20:06,899

fluid flu outbreak in Australia is I

457
00:20:05,549 --> 00:20:08,970
think there's a lot of influence of the

458
00:20:06,900 --> 00:20:11,880
virus which in the rather different sort

459
00:20:08,970 --> 00:20:13,680
of virus circulating and we're worried

460
00:20:11,880 --> 00:20:17,310
waiting to see what how that hoping will

461
00:20:13,680 --> 00:20:20,370
develop now with respect to the killer T

462
00:20:17,309 --> 00:20:23,429
cells these just other cells have

463
00:20:20,369 --> 00:20:25,049
destroyed virus-infected cells and as

464
00:20:23,430 --> 00:20:26,730
you say they focus on to our own

465
00:20:25,049 --> 00:20:28,379
transplant molecules that have been

466
00:20:26,730 --> 00:20:31,380
modified by having a little bit of the

467
00:20:28,380 --> 00:20:33,180
virus in their tip and the bit of virus

468
00:20:31,380 --> 00:20:35,070
the tens to hundreds attempts to come

469
00:20:33,180 --> 00:20:37,590
from internal proteins to the virus

470
00:20:35,069 --> 00:20:40,259
which tend to be rather conserved and so

471
00:20:37,589 --> 00:20:42,389
there's a lot of cross-reactivity and we

472
00:20:40,259 --> 00:20:44,640
think that maybe we primed up that

473
00:20:42,390 --> 00:20:47,130
cross-reactivity it would help to make a

474
00:20:44,640 --> 00:20:48,660
much more cross-reactive vaccine and if

475
00:20:47,130 --> 00:20:50,640
we could make a much more cross-reactive

476
00:20:48,660 --> 00:20:54,360
axon we could make it ahead of time and

477
00:20:50,640 --> 00:20:56,550
even store it in in the case of a new

478
00:20:54,359 --> 00:20:58,109
pandemic stern emerging there's also a

479
00:20:56,549 --> 00:20:59,700
lot of other stuff being discussed from

480
00:20:58,109 --> 00:21:01,679
the point of view of trying to focus the

481
00:20:59,700 --> 00:21:04,049
antibody response the other component of

482
00:21:01,680 --> 00:21:06,870
immunity which normally the important

483
00:21:04,049 --> 00:21:07,480
thing in philly vaccines onto shared or

484
00:21:06,869 --> 00:21:10,059
concern

485

00:21:07,480 --> 00:21:13,120
regions of the protein by modifying the

486
00:21:10,059 --> 00:21:15,339
protein and and and changing the way

487
00:21:13,119 --> 00:21:16,719
it's presented to the immune system so

488
00:21:15,339 --> 00:21:19,419
there's a lot of discussion a lot of

489
00:21:16,720 --> 00:21:21,490
excitement now in vaccine research with

490
00:21:19,420 --> 00:21:23,259
new molecular technology hoping

491
00:21:21,490 --> 00:21:25,720
hopefully giving us much better vaccine

492
00:21:23,259 --> 00:21:27,309
so if we could develop a cross reactive

493
00:21:25,720 --> 00:21:29,410
influenza vaccine then we wouldn't have

494
00:21:27,309 --> 00:21:31,839
to make a new one every year and and

495
00:21:29,410 --> 00:21:33,820
model it to the specific strain would we

496
00:21:31,839 --> 00:21:35,859
could just have like a generic silly

497
00:21:33,819 --> 00:21:39,519
vaccine that that would be wonderful

498
00:21:35,859 --> 00:21:41,379
from the point of view of Medicine if we

499
00:21:39,519 --> 00:21:42,970

could make a cross reactive vaccine that

500

00:21:41,380 --> 00:21:45,160

we didn't have to give every year and

501

00:21:42,970 --> 00:21:49,000

even if it was a vaccine that didn't

502

00:21:45,160 --> 00:21:50,680

protect totally that allowed a low level

503

00:21:49,000 --> 00:21:53,049

of infection for instance that would

504

00:21:50,680 --> 00:21:54,850

have the effect a really boosting

505

00:21:53,049 --> 00:21:56,740

immunity so there may be some advantage

506

00:21:54,849 --> 00:21:58,899

in that now whether we'll ever get to

507

00:21:56,740 --> 00:22:02,289

that we don't know but I think we should

508

00:21:58,900 --> 00:22:04,120

try pretty hard to do it part of the

509

00:22:02,289 --> 00:22:06,490

issue that would be as even though this

510

00:22:04,119 --> 00:22:08,289

looks might look very good from the the

511

00:22:06,490 --> 00:22:09,640

point of view of university researchers

512

00:22:08,289 --> 00:22:11,730

and so what would it look really good

513

00:22:09,640 --> 00:22:17,140

from the point of view of drug company

514
00:22:11,730 --> 00:22:19,089
good point that's not very lucrative if

515
00:22:17,140 --> 00:22:20,830
they have one vaccine too well you know

516
00:22:19,089 --> 00:22:23,009
and also that the enormous cost of

517
00:22:20,829 --> 00:22:26,769
putting any any new vaccine through

518
00:22:23,009 --> 00:22:29,349
through trials now that's a lot of money

519
00:22:26,769 --> 00:22:33,309
to do to develop something that's a

520
00:22:29,349 --> 00:22:35,349
totally new product to human years yeah

521
00:22:33,309 --> 00:22:37,569
so just a couple of final questions

522
00:22:35,349 --> 00:22:39,699
professor on that issue of vaccine

523
00:22:37,569 --> 00:22:41,230
testing now you do find the anti-vaxxers

524
00:22:39,700 --> 00:22:43,090
will say because there's a new flu

525
00:22:41,230 --> 00:22:44,529
vaccine every year therefore it hasn't

526
00:22:43,089 --> 00:22:46,809
been tested therefore I'm not going to

527
00:22:44,529 --> 00:22:50,049
give it to my children now the fact that

528
00:22:46,809 --> 00:22:53,649
we've had flu vaccines in place for a

529
00:22:50,049 --> 00:22:56,950
long time surely that's the testing that

530
00:22:53,650 --> 00:22:59,050
we're doing yeah it is that's true I

531
00:22:56,950 --> 00:23:01,779
mean we couldn't if we had to go through

532
00:22:59,049 --> 00:23:04,450
the full testing for flu vaccine every

533
00:23:01,779 --> 00:23:06,039
year and in the sensor was a new product

534
00:23:04,450 --> 00:23:08,370
we never get any vaccine out there at

535
00:23:06,039 --> 00:23:10,899
all I mean there's a question about

536
00:23:08,369 --> 00:23:12,879
vaccinations children as as what

537
00:23:10,900 --> 00:23:15,910
happened with the the Western Australian

538
00:23:12,880 --> 00:23:17,680
situation you know the situation is if

539
00:23:15,910 --> 00:23:20,860
you get large numbers of children

540
00:23:17,680 --> 00:23:23,470
infected and civilian fected people

541
00:23:20,859 --> 00:23:26,740
to use a vaccine that the it's this

542

00:23:23,470 --> 00:23:30,910
issue of nothing is ever totally safe I

543
00:23:26,740 --> 00:23:32,859
mean we know that I mean it's not safe

544
00:23:30,910 --> 00:23:34,779
to cross a road for instance we know

545
00:23:32,859 --> 00:23:37,509
that we when we wear seatbelts in a car

546
00:23:34,779 --> 00:23:39,519
that seed dogs normally protect us but

547
00:23:37,509 --> 00:23:41,079
you know sometimes the accident can be

548
00:23:39,519 --> 00:23:45,279
worse because we're wearing a seatbelt

549
00:23:41,079 --> 00:23:47,589
and it's the same issue there's not

550
00:23:45,279 --> 00:23:50,678
nothing in life that is totally without

551
00:23:47,589 --> 00:23:52,659
risk though I think we go over the top a

552
00:23:50,679 --> 00:23:55,450
little bit in current society trying to

553
00:23:52,660 --> 00:23:58,720
minimize risk and you have to be able to

554
00:23:55,450 --> 00:24:01,090
live and I'm not living a cocoon so I

555
00:23:58,720 --> 00:24:02,558
think you're planning to retire from

556
00:24:01,089 --> 00:24:04,119

research soon is that right but you're

557

00:24:02,558 --> 00:24:06,639

never going to give up science because

558

00:24:04,119 --> 00:24:08,229

I'm a scientist myself and I know that

559

00:24:06,640 --> 00:24:13,270

as a scientist you can never give it up

560

00:24:08,230 --> 00:24:16,750

so what are your plans well I'm 70 70

561

00:24:13,269 --> 00:24:18,009

years old and we have a program grant

562

00:24:16,750 --> 00:24:19,929

for the Australian National Health

563

00:24:18,009 --> 00:24:22,119

Medical Research Council that runs for

564

00:24:19,929 --> 00:24:24,759

another 30 years plus and I'm also

565

00:24:22,119 --> 00:24:28,509

involved in a big what we call systems

566

00:24:24,759 --> 00:24:30,369

biology research effort on influenza

567

00:24:28,509 --> 00:24:32,798

trying to understand early influence or

568

00:24:30,369 --> 00:24:34,479

infection in the United States I'm more

569

00:24:32,798 --> 00:24:36,639

Thunder it looks for a general audience

570

00:24:34,480 --> 00:24:38,919

about science and trying to talk about

571
00:24:36,640 --> 00:24:42,640
science to people who don't think about

572
00:24:38,919 --> 00:24:45,330
it all the time and I've got one book

573
00:24:42,640 --> 00:24:50,280
that you to come out next year that's on

574
00:24:45,329 --> 00:24:52,269
birds and infection and the Cubs

575
00:24:50,279 --> 00:24:54,220
tentatively at the moment it's called

576
00:24:52,269 --> 00:24:56,109
Sentinel chickens we will see what it

577
00:24:54,220 --> 00:25:00,519
ends up as not only writing a book on

578
00:24:56,109 --> 00:25:04,509
pandemics I think scientists need to try

579
00:25:00,519 --> 00:25:06,579
to talk to people and to try to get

580
00:25:04,509 --> 00:25:08,558
across messages about what they do

581
00:25:06,579 --> 00:25:10,029
understand and the limitations of their

582
00:25:08,558 --> 00:25:12,428
understanding and what they think is

583
00:25:10,029 --> 00:25:16,178
important and so I'll probably spend the

584
00:25:12,429 --> 00:25:19,120
rest of my active life trying to do that

585
00:25:16,179 --> 00:25:20,500
I think if I were younger I'd probably

586
00:25:19,119 --> 00:25:22,449
try to do it through the blogosphere

587
00:25:20,500 --> 00:25:23,950
which is probably much more effective

588
00:25:22,450 --> 00:25:25,929
but I have young people are already

589
00:25:23,950 --> 00:25:27,490
doing that and of course you're doing

590
00:25:25,929 --> 00:25:30,280
podcasts which is a good way to approach

591
00:25:27,490 --> 00:25:32,200
these issues I think that's a really

592
00:25:30,279 --> 00:25:33,759
pertinent point that you raised because

593
00:25:32,200 --> 00:25:34,750
I'm just yesterday there was an article

594
00:25:33,759 --> 00:25:36,609
in nature new

595
00:25:34,750 --> 00:25:39,640
use by professor who's been blogging

596
00:25:36,609 --> 00:25:41,769
about stem cells for a year and he was

597
00:25:39,640 --> 00:25:44,050
encouraging people now to get into the

598
00:25:41,769 --> 00:25:46,029
blogosphere and i think in these times

599

00:25:44,049 --> 00:25:48,970
as it seems to me there's quite a

600
00:25:46,029 --> 00:25:50,740
distrust of scientists emerging we have

601
00:25:48,970 --> 00:25:53,710
the climate denialists and then we have

602
00:25:50,740 --> 00:25:55,720
the you know greenpeace who went into

603
00:25:53,710 --> 00:25:57,850
siren we've been slickered their GM crop

604
00:25:55,720 --> 00:26:00,970
recently and it seems that there's this

605
00:25:57,849 --> 00:26:02,649
under sort of against bubbling under the

606
00:26:00,970 --> 00:26:05,110
surface people are distrusting

607
00:26:02,650 --> 00:26:06,759
government and scientists and i think we

608
00:26:05,109 --> 00:26:08,500
need to take responsibility for some of

609
00:26:06,759 --> 00:26:10,420
that and get out there and teach people

610
00:26:08,500 --> 00:26:13,029
about how science works and not to be

611
00:26:10,420 --> 00:26:14,950
scared of it and understand what we do

612
00:26:13,029 --> 00:26:18,099
in labs at nighttime you know in with

613
00:26:14,950 --> 00:26:21,220

perhaps and flood tides yeah I couldn't

614

00:26:18,099 --> 00:26:23,469

agree more but I think it's even more

615

00:26:21,220 --> 00:26:25,779

persuasive than that I think there's a

616

00:26:23,470 --> 00:26:31,029

general retreat from reason in society

617

00:26:25,779 --> 00:26:34,869

and also the the media and the nature of

618

00:26:31,029 --> 00:26:37,629

information has changed dramatically you

619

00:26:34,869 --> 00:26:39,339

can't really rely on anything you read

620

00:26:37,630 --> 00:26:42,610

in the newspaper in Australia for

621

00:26:39,339 --> 00:26:44,500

instance on in the one substantial

622

00:26:42,609 --> 00:26:46,389

segments of the newspaper industry is

623

00:26:44,500 --> 00:26:48,579

actively campaigning against doing

624

00:26:46,390 --> 00:26:51,130

anything about climate change and they

625

00:26:48,579 --> 00:26:53,829

simply invent stuff quite frankly or

626

00:26:51,130 --> 00:26:55,630

don't report it so where do you get

627

00:26:53,829 --> 00:26:58,449

valid information so we've been

628
00:26:55,630 --> 00:27:00,430
struggling with this the new initiative

629
00:26:58,450 --> 00:27:02,500
that coming out of university of

630
00:27:00,430 --> 00:27:05,529
melbourne but involving many australian

631
00:27:02,500 --> 00:27:07,900
universities and increasingly involving

632
00:27:05,529 --> 00:27:11,500
north northern hemisphere universities

633
00:27:07,900 --> 00:27:15,220
ism is a an epic called the conversation

634
00:27:11,500 --> 00:27:17,920
oh yes a knot this is an online effort

635
00:27:15,220 --> 00:27:20,079
the articles are written by scientists

636
00:27:17,920 --> 00:27:22,200
and academics not just scientists people

637
00:27:20,079 --> 00:27:25,389
who are doing various other things in

638
00:27:22,200 --> 00:27:29,590
universities and then they're taken over

639
00:27:25,390 --> 00:27:31,480
by journalists who edit them and put

640
00:27:29,589 --> 00:27:34,569
them in the language that's accessible

641
00:27:31,480 --> 00:27:37,450
to people who are non specialists and

642
00:27:34,569 --> 00:27:39,189
who are just intelligent interested

643
00:27:37,450 --> 00:27:42,160
people and I think that's a very good

644
00:27:39,190 --> 00:27:44,200
effort so basically if we want to get

645
00:27:42,160 --> 00:27:46,320
people to engage much more with science

646
00:27:44,200 --> 00:27:47,819
we have to do it I think through the

647
00:27:46,319 --> 00:27:50,189
electronic me

648
00:27:47,819 --> 00:27:52,379
the print media I think sort of

649
00:27:50,190 --> 00:27:55,890
basically becoming history fairly

650
00:27:52,380 --> 00:27:58,650
quickly and and and they're there in

651
00:27:55,890 --> 00:28:01,259
some cases just so unreliable that

652
00:27:58,650 --> 00:28:03,960
they're not useful no especially when

653
00:28:01,259 --> 00:28:07,289
they dominated by one particular you

654
00:28:03,960 --> 00:28:10,980
know news body which is the case well

655
00:28:07,289 --> 00:28:13,609
dude I take ten newspapers and one of

656

00:28:10,980 --> 00:28:18,329
them i think is becoming increasingly

657
00:28:13,609 --> 00:28:23,039
toxic I'm like every disease come into

658
00:28:18,329 --> 00:28:24,480
your house every day why I do it we

659
00:28:23,039 --> 00:28:26,159
won't mention any names and we'll get

660
00:28:24,480 --> 00:28:29,069
shut down by the unidentified the

661
00:28:26,160 --> 00:28:33,000
newspaper but they know who they are I

662
00:28:29,069 --> 00:28:34,409
do like you I think they didn't yeah so

663
00:28:33,000 --> 00:28:36,809
professor Dougherty you're giving a

664
00:28:34,410 --> 00:28:39,240
public lecture on Tuesday the second of

665
00:28:36,809 --> 00:28:41,250
august in Canberra called killer viruses

666
00:28:39,240 --> 00:28:46,710
and killer t-cells that's free and is

667
00:28:41,250 --> 00:28:48,240
also live broadcast from 6pm thank you

668
00:28:46,710 --> 00:28:50,700
so much for taking the time to talk to

669
00:28:48,240 --> 00:28:54,079
us today I really appreciate it okay

670
00:28:50,700 --> 00:28:54,080

well thanks a lot

671

00:29:01,259 --> 00:29:08,579
and now a message from the inside of

672

00:29:04,450 --> 00:29:08,580
Richard Saunders walk-in refrigerator

673

00:29:11,250 --> 00:29:19,028
sub HIPAA with merit and bending and

674

00:29:15,630 --> 00:29:21,909
from Norway i'm here at still here tam

675

00:29:19,028 --> 00:29:23,679
nine although not for long sadly yes

676

00:29:21,909 --> 00:29:25,659
I've got to get my bus in about four

677

00:29:23,679 --> 00:29:27,159
hours it's all too crazy but I'm here

678

00:29:25,659 --> 00:29:30,929
with these wonderful Norwegian people

679

00:29:27,159 --> 00:29:33,700
who were drinking heavily last night

680

00:29:30,929 --> 00:29:37,600
every time someone said Norway the table

681

00:29:33,700 --> 00:29:40,440
erupted I enjoyed a lot oh it was just

682

00:29:37,599 --> 00:29:40,439
like that yeah

683

00:29:48,480 --> 00:29:53,579
Marty first time at ten uh well sort of

684

00:29:51,960 --> 00:29:55,259
I've been to both the ones that have

685
00:29:53,579 --> 00:29:57,928
been in London all right of course yeah

686
00:29:55,259 --> 00:30:00,599
and they were both wonderful and after

687
00:29:57,929 --> 00:30:03,030
the first one we were a bunch of people

688
00:30:00,599 --> 00:30:04,980
who got really engaged and wanted to do

689
00:30:03,029 --> 00:30:06,539
stuff so that's kind of where my real

690
00:30:04,980 --> 00:30:09,110
skeptical activist and started before

691
00:30:06,539 --> 00:30:11,460
that I was just reading blogs and

692
00:30:09,109 --> 00:30:13,259
thinking about writing a blog and that

693
00:30:11,460 --> 00:30:15,240
kind of thing but after that that was

694
00:30:13,259 --> 00:30:17,759
like a pivotal event we started doing a

695
00:30:15,240 --> 00:30:20,099
lot more stuff excellent and were you at

696
00:30:17,759 --> 00:30:24,240
ten in London too yeah I went with her

697
00:30:20,099 --> 00:30:29,369
both times and well like I didn't get

698
00:30:24,240 --> 00:30:32,190
quite that motivated but about almost a

699
00:30:29,369 --> 00:30:34,769
year ago I decided that we should really

700
00:30:32,190 --> 00:30:37,169
have a Norwegian podcasts because we

701
00:30:34,769 --> 00:30:39,089
didn't have a Norwegian podcasts so we

702
00:30:37,169 --> 00:30:42,450
started a pinch of salt and it's been

703
00:30:39,089 --> 00:30:44,879
very successful ever since that's great

704
00:30:42,450 --> 00:30:46,350
i love i like the name because you know

705
00:30:44,880 --> 00:30:48,000
the English expression takes something

706
00:30:46,349 --> 00:30:51,000
with a grain of salt I guess that's the

707
00:30:48,000 --> 00:30:52,558
same the same concept here yeah you know

708
00:30:51,000 --> 00:30:55,589
region though the term is a pinch of

709
00:30:52,558 --> 00:30:58,710
salt is all of that yeah and what topics

710
00:30:55,589 --> 00:31:02,069
do you cover ah we cover no reason news

711
00:30:58,710 --> 00:31:04,470
stories and regular skeptical topics

712
00:31:02,069 --> 00:31:07,399
such as the vaccination alternative

713

00:31:04,470 --> 00:31:11,269
medicine how to read a scientific study

714
00:31:07,400 --> 00:31:14,100
and we talked to various people about

715
00:31:11,269 --> 00:31:16,470
different areas of science and and that

716
00:31:14,099 --> 00:31:17,969
kind of thing if listeners are wondering

717
00:31:16,470 --> 00:31:19,798
and they're thinking I've heard that

718
00:31:17,970 --> 00:31:22,079
voice before you're one of the two

719
00:31:19,798 --> 00:31:23,490
lovely Norwegian ladies who the ad i

720
00:31:22,079 --> 00:31:26,149
play occasionally where you hear the

721
00:31:23,490 --> 00:31:26,150
Viking music

722
00:31:28,950 --> 00:31:38,880
I am audit Maya Kristen Aviva tips addai

723
00:31:37,409 --> 00:31:41,220
some lotion lifted off the skeptic zone

724
00:31:38,880 --> 00:31:43,200
I'm skeptical marine Nadia the VINs not

725
00:31:41,220 --> 00:31:44,909
a blog gear or petrov a podcast of

726
00:31:43,200 --> 00:31:46,798
reading it escapes East rivers lakes on

727
00:31:44,909 --> 00:31:48,750

this door open ah central data skips

728

00:31:46,798 --> 00:31:50,970

astotel new or higher publicize the dips

729

00:31:48,750 --> 00:31:52,888

corner Chiclets and calendar / activated

730

00:31:50,970 --> 00:31:54,329

or link eternity research it escapes his

731

00:31:52,888 --> 00:31:55,888

blog in opportunity I'm lay of the disk

732

00:31:54,329 --> 00:31:57,599

attached ft / food amount so stick

733

00:31:55,888 --> 00:32:06,569

kingdom of their tawdry what's up skips

734

00:31:57,599 --> 00:32:07,798

is totes hello yes yes that's me i might

735

00:32:06,569 --> 00:32:11,428

not be recognizable right now because

736

00:32:07,798 --> 00:32:13,259

i'm a bit hoarse after yesterday but yes

737

00:32:11,429 --> 00:32:15,750

that is me yes it's me and Kristin

738

00:32:13,259 --> 00:32:17,819

Kristin was a wonderful honor we have to

739

00:32:15,750 --> 00:32:19,409

collect miss as well and and what a pity

740

00:32:17,819 --> 00:32:21,750

Kristin couldn't be here yeah i'm

741

00:32:19,409 --> 00:32:24,028

missing exactly we are because she was

742
00:32:21,750 --> 00:32:26,490
the lovely lady who was on the video for

743
00:32:24,028 --> 00:32:29,159
the 10 23 from oslo she was the main

744
00:32:26,490 --> 00:32:30,450
organizer of that event and also she and

745
00:32:29,159 --> 00:32:32,250
I and a couple of other people organized

746
00:32:30,450 --> 00:32:34,919
the region conference on science and

747
00:32:32,250 --> 00:32:39,740
skepticism called critical mass in

748
00:32:34,919 --> 00:32:42,179
October last year also so now you had a

749
00:32:39,740 --> 00:32:44,548
visit not so long ago from our dear

750
00:32:42,179 --> 00:32:48,200
friend james randi indeed and I've seen

751
00:32:44,548 --> 00:32:51,538
the video which is online of course of

752
00:32:48,200 --> 00:32:53,610
Randy's talk there and well it seemed to

753
00:32:51,538 --> 00:32:56,429
me that that was a huge success it was

754
00:32:53,609 --> 00:32:59,009
his visit and his talk yes it was a huge

755
00:32:56,429 --> 00:33:00,419
success first he was in Oslo where they

756
00:32:59,009 --> 00:33:03,929
had booked a venue of about a thousand

757
00:33:00,419 --> 00:33:06,028
people and 1500 people showed up so 500

758
00:33:03,929 --> 00:33:07,110
were turned away at the door then he

759
00:33:06,028 --> 00:33:08,579
moved on to a different city called

760
00:33:07,109 --> 00:33:10,888
Trondheim where the video is from and

761
00:33:08,579 --> 00:33:12,349
they had a venue of about 600 and I

762
00:33:10,888 --> 00:33:15,538
think about a thousand people showed up

763
00:33:12,349 --> 00:33:18,509
then in the final city that he went to

764
00:33:15,538 --> 00:33:20,339
in Bergen unfortunately there are very

765
00:33:18,509 --> 00:33:22,769
few large venues except for like

766
00:33:20,339 --> 00:33:25,829
extremely large so they were only able

767
00:33:22,769 --> 00:33:27,538
to get a venue about 300 people and I

768
00:33:25,829 --> 00:33:30,359
think they had to turn away that same

769
00:33:27,538 --> 00:33:32,099
amount there too Wow so yeah that was

770

00:33:30,359 --> 00:33:33,209
extremely popular and it was a great

771
00:33:32,099 --> 00:33:36,178
success and he was in all the major

772
00:33:33,210 --> 00:33:37,190
newspapers and I think it really raised

773
00:33:36,179 --> 00:33:38,810
awareness

774
00:33:37,190 --> 00:33:40,759
because in a region humanist association

775
00:33:38,809 --> 00:33:41,990
is doing a campaign about critical

776
00:33:40,759 --> 00:33:48,129
thinking called no one likes to be

777
00:33:41,990 --> 00:33:50,569
fooled or in liquid oublie loot and

778
00:33:48,130 --> 00:33:53,780
Randy the whole Randy stunt was was a

779
00:33:50,569 --> 00:33:56,599
wonderful promoter of attention the

780
00:33:53,779 --> 00:33:59,599
video I'm glad somebody organized that

781
00:33:56,599 --> 00:34:01,699
video yes I i downloaded that i think i

782
00:33:59,599 --> 00:34:03,230
was telling you the other night I saw it

783
00:34:01,700 --> 00:34:04,759
online and I thought well I want to have

784
00:34:03,230 --> 00:34:07,819

this side download it and burn it to a

785

00:34:04,759 --> 00:34:09,710

DVD yeah it's really good and it's still

786

00:34:07,819 --> 00:34:13,880

out there for free so how can people

787

00:34:09,710 --> 00:34:16,340

find them um probably by googling Randy

788

00:34:13,880 --> 00:34:18,380

talk and maybe Trondheim which is a

789

00:34:16,340 --> 00:34:21,710

large nor weed in the ocean region city

790

00:34:18,380 --> 00:34:24,110

more even brandy talk norway would ya we

791

00:34:21,710 --> 00:34:26,329

find it that's true probably video Randy

792

00:34:24,110 --> 00:34:28,370

talking away yep absolutely in fact what

793

00:34:26,329 --> 00:34:30,380

I'll do and this episode goes out in the

794

00:34:28,369 --> 00:34:32,480

show notes folks and in the newsletter

795

00:34:30,380 --> 00:34:35,240

i'll make sure i include that link yeah

796

00:34:32,480 --> 00:34:38,000

that's very good i have such fun in no

797

00:34:35,239 --> 00:34:39,529

white folks oh yes we do actually

798

00:34:38,000 --> 00:34:42,920

skepticism in norway has been on the

799

00:34:39,530 --> 00:34:44,420
rise since since about spring of 2009

800

00:34:42,920 --> 00:34:47,240
when the first skeptics in the pub

801

00:34:44,420 --> 00:34:49,880
meeting was launched and it was sort of

802

00:34:47,239 --> 00:34:52,849
low key for a while you know like 10

803

00:34:49,880 --> 00:34:55,190
people meeting up every time and after

804

00:34:52,849 --> 00:34:57,909
we started showing up naturally things

805

00:34:55,190 --> 00:35:00,289
got more interesting but actually after

806

00:34:57,909 --> 00:35:01,969
we started showing up a lot of other

807

00:35:00,289 --> 00:35:04,070
people also started showing up and and

808

00:35:01,969 --> 00:35:06,109
now generally were about 25 to 30 people

809

00:35:04,070 --> 00:35:08,769
at the ones and although which is pretty

810

00:35:06,110 --> 00:35:12,829
good for a very small city like Ozil and

811

00:35:08,769 --> 00:35:15,050
a lot of activism and good stuff has

812

00:35:12,829 --> 00:35:16,849
come of sort of the environment around

813
00:35:15,050 --> 00:35:20,420
that I mean there's a conference there's

814
00:35:16,849 --> 00:35:22,819
the podcast overall new blog several new

815
00:35:20,420 --> 00:35:24,829
blogs quite a lot of media attention as

816
00:35:22,820 --> 00:35:27,769
well actually yeah we've had reporters

817
00:35:24,829 --> 00:35:32,000
visit us a couple of times and we've

818
00:35:27,769 --> 00:35:34,340
been visited by George Rob yes yeah

819
00:35:32,000 --> 00:35:35,929
that's right that was wonderful that was

820
00:35:34,340 --> 00:35:38,809
amazing and we also had the director of

821
00:35:35,929 --> 00:35:41,989
the movie sizzle a global warming comedy

822
00:35:38,809 --> 00:35:43,159
oh man Randy Olson um that was also

823
00:35:41,989 --> 00:35:45,500
great we showed his movie and he

824
00:35:43,159 --> 00:35:46,639
how to talk with us so we're trying to

825
00:35:45,500 --> 00:35:49,760
organize more events and stuff like that

826
00:35:46,639 --> 00:35:51,440
and also kind of as a result of all this

827

00:35:49,760 --> 00:35:54,260
and all the activism and buzzing that's

828
00:35:51,440 --> 00:35:57,139
going on the organization the Norwegian

829
00:35:54,260 --> 00:35:59,720
skeptics has also been revived they've

830
00:35:57,139 --> 00:36:03,529
had they haven't had a board meeting in

831
00:35:59,719 --> 00:36:06,709
about 15 years and we finally had one in

832
00:36:03,530 --> 00:36:08,600
March and elected a new board and lots

833
00:36:06,710 --> 00:36:11,179
of young faces yes that's a new faces

834
00:36:08,599 --> 00:36:13,849
was elected at the leader well that that

835
00:36:11,179 --> 00:36:17,029
would be me so I'm now the president of

836
00:36:13,849 --> 00:36:19,969
the Norwegian skeptics and thank you

837
00:36:17,030 --> 00:36:21,920
thank you congratulations thank you and

838
00:36:19,969 --> 00:36:25,339
kristin is also in the board yeah um

839
00:36:21,920 --> 00:36:28,400
we're actually I'm not in the board but

840
00:36:25,340 --> 00:36:30,470
we're very proud of the composition on

841
00:36:28,400 --> 00:36:32,059

makeup yeah because other nine people on

842

00:36:30,469 --> 00:36:35,149

the board four of them are women and

843

00:36:32,059 --> 00:36:37,820

right I believe eight of them are under

844

00:36:35,150 --> 00:36:40,340

35 or something yeah we're all I think

845

00:36:37,820 --> 00:36:44,450

we're all like around 40 or younger a

846

00:36:40,340 --> 00:36:47,240

lot of us are in our 20s and 30s she's a

847

00:36:44,449 --> 00:36:51,409

really good demographic yeah there's a

848

00:36:47,239 --> 00:36:56,419

lot of uh vibrant energy and good

849

00:36:51,409 --> 00:36:58,639

frequencies radiating from your energy

850

00:36:56,420 --> 00:37:02,150

there you can feel the energies yeah up

851

00:36:58,639 --> 00:37:05,629

and no it's the trolls yeah controls yes

852

00:37:02,150 --> 00:37:09,680

yes we can feel the troll spirits giving

853

00:37:05,630 --> 00:37:11,360

us power so what's what's the big next

854

00:37:09,679 --> 00:37:13,819

thing when you go home what will you be

855

00:37:11,360 --> 00:37:15,590

getting into the first thing is to make

856
00:37:13,820 --> 00:37:18,700
a new website for the Norwegian skeptics

857
00:37:15,590 --> 00:37:22,370
which really really needs a facelift and

858
00:37:18,699 --> 00:37:24,679
needs a bit more of a modern focus I

859
00:37:22,369 --> 00:37:27,259
would say it's been publishing academic

860
00:37:24,679 --> 00:37:29,719
articles for a very long time and I have

861
00:37:27,260 --> 00:37:31,700
their place but yeah that's like the

862
00:37:29,719 --> 00:37:33,409
main thing that you see there's a blog

863
00:37:31,699 --> 00:37:36,649
but it's very sort of hidden in the

864
00:37:33,409 --> 00:37:38,299
links so we're going to try and sort of

865
00:37:36,650 --> 00:37:39,670
make it a little bit more news is

866
00:37:38,300 --> 00:37:42,548
oriented and

867
00:37:39,670 --> 00:37:44,159
to sort of change the focus that the

868
00:37:42,548 --> 00:37:46,298
website which I think will be very good

869
00:37:44,159 --> 00:37:49,058
also we've started working on our next

870
00:37:46,298 --> 00:37:51,969
conference which will probably not be in

871
00:37:49,059 --> 00:37:54,130
2011 but it will be in 2012 because as

872
00:37:51,969 --> 00:37:57,399
you are aware making a conference is a

873
00:37:54,130 --> 00:38:00,068
huge job takes time well if he goes

874
00:37:57,400 --> 00:38:03,369
ahead in 2012 what time of the year you

875
00:38:00,068 --> 00:38:06,759
think we're thinking spring 2012 which

876
00:38:03,369 --> 00:38:08,680
is what month we go Oh februari februari

877
00:38:06,760 --> 00:38:12,520
yea sorry I'm Australian it's all crazy

878
00:38:08,679 --> 00:38:14,169
yeah that is crazy actually it's uh beer

879
00:38:12,519 --> 00:38:16,630
is probably more like winter but we're

880
00:38:14,170 --> 00:38:17,980
gonna try and get it done at least at

881
00:38:16,630 --> 00:38:20,289
the latest you know like march but

882
00:38:17,980 --> 00:38:22,599
probably in February not a nice time of

883
00:38:20,289 --> 00:38:25,298
the in February noise nice time do you

884

00:38:22,599 --> 00:38:27,460
yes I'm not really really is really cold

885
00:38:25,298 --> 00:38:30,818
not really cool it's good for sledding

886
00:38:27,460 --> 00:38:33,068
and skiing so that's ok yeah i think i

887
00:38:30,818 --> 00:38:34,449
think if we if we do it if I brary will

888
00:38:33,068 --> 00:38:37,779
have to have like a speaker sledding

889
00:38:34,449 --> 00:38:40,149
evening well I hope that you keep us

890
00:38:37,780 --> 00:38:44,280
posted and me personally posted

891
00:38:40,150 --> 00:38:47,650
because I would like to visit every

892
00:38:44,280 --> 00:38:49,960
skeptical Convention and roll the time

893
00:38:47,650 --> 00:38:52,858
of course I love these things I really

894
00:38:49,960 --> 00:38:56,530
do and in my own small way I hope I

895
00:38:52,858 --> 00:38:59,920
contribute to the fun and the success so

896
00:38:56,530 --> 00:39:02,710
if there's enough notice pneus is any

897
00:38:59,920 --> 00:39:05,619
hope I will make every effort keep that

898
00:39:02,710 --> 00:39:08,318

in mind come to Oslo that would be a

899

00:39:05,619 --> 00:39:10,250

nice though yes yes that is the easiest

900

00:39:08,318 --> 00:39:12,900

venue to organize things in

901

00:39:10,250 --> 00:39:15,480

I've been briefly to Sweden and I've

902

00:39:12,900 --> 00:39:17,639

been briefly to Denmark get it to Norway

903

00:39:15,480 --> 00:39:20,280

all right so it's gonna be next on the

904

00:39:17,639 --> 00:39:28,109

list yeah definitely you can't go back

905

00:39:20,280 --> 00:39:31,019

there until then I knew that it happens

906

00:39:28,110 --> 00:39:33,090

everywhere here folks when I go to

907

00:39:31,019 --> 00:39:37,500

Norway I'm going to get to a table and

908

00:39:33,090 --> 00:39:39,780

Australia well Norwegian skeptics with

909

00:39:37,500 --> 00:39:41,820

your pinch of salt I wish you every

910

00:39:39,780 --> 00:39:54,240

success and thank you very much thank

911

00:39:41,820 --> 00:39:56,039

you this is desiree shell a host of

912

00:39:54,239 --> 00:39:58,349

Canadian radio shows skeptically

913
00:39:56,039 --> 00:40:00,980
speaking in you're listening to the

914
00:39:58,349 --> 00:40:00,980
skeptic zone

915
00:40:04,619 --> 00:40:10,298
and i'm here at tam 9 in las vegas

916
00:40:07,650 --> 00:40:13,389
sitting around the corner from the main

917
00:40:10,298 --> 00:40:14,438
corridor where there's a lot of activity

918
00:40:13,389 --> 00:40:17,318
going on we're sort of hiding in a

919
00:40:14,438 --> 00:40:19,719
corner here I'm with Richard crabby leg

920
00:40:17,318 --> 00:40:22,298
Saunders crabby leg Saunders that's me I

921
00:40:19,719 --> 00:40:23,798
haven't had my Krabby legs yet I know

922
00:40:22,298 --> 00:40:25,838
you have it Richard I know that you want

923
00:40:23,798 --> 00:40:28,088
to go straight after the speaker's

924
00:40:25,838 --> 00:40:30,338
reception this afternoon to have crappy

925
00:40:28,088 --> 00:40:32,619
legs don't you yes I've got money set

926
00:40:30,338 --> 00:40:35,619
aside for it I saw that you were showing

927
00:40:32,619 --> 00:40:37,689
me your crabby leg money so you this

928
00:40:35,619 --> 00:40:39,910
morning you did a panel you did a panel

929
00:40:37,688 --> 00:40:41,409
on getting things done skepticism

930
00:40:39,909 --> 00:40:42,909
getting things done unfortunately I

931
00:40:41,409 --> 00:40:44,259
wasn't there because i was preparing

932
00:40:42,909 --> 00:40:45,909
from our own panel and obviously our

933
00:40:44,259 --> 00:40:47,528
listeners most of Alice's weren't there

934
00:40:45,909 --> 00:40:49,389
yeah so tell me what was that about

935
00:40:47,528 --> 00:40:52,449
getting things done well they had a

936
00:40:49,389 --> 00:40:54,788
range of people on on the stage who in

937
00:40:52,449 --> 00:40:57,699
the opinion of the JREF I suppose had

938
00:40:54,789 --> 00:41:00,819
helped make a change in the past year

939
00:40:57,699 --> 00:41:03,759
and I was chosen for the work that I and

940
00:41:00,818 --> 00:41:06,308
we've all done on pal balance so indeed

941

00:41:03,759 --> 00:41:08,858
we had a bit of a chat about that and I

942
00:41:06,309 --> 00:41:11,109
had George Saba MC come out and I did

943
00:41:08,858 --> 00:41:13,208
the whole routine on George with a with

944
00:41:11,108 --> 00:41:14,619
a placebo band without a placebo been to

945
00:41:13,208 --> 00:41:18,098
show the whole audience how that worked

946
00:41:14,619 --> 00:41:21,099
and that got a round of applause or

947
00:41:18,099 --> 00:41:23,140
applause sorry I'm scheduler yeah it's

948
00:41:21,099 --> 00:41:25,959
interesting because I've been talking to

949
00:41:23,139 --> 00:41:27,400
a few people here and of course I guess

950
00:41:25,958 --> 00:41:29,558
we take it for granted in Australia that

951
00:41:27,400 --> 00:41:32,139
most people in Australia know what

952
00:41:29,559 --> 00:41:35,919
happened with power balance there and

953
00:41:32,139 --> 00:41:38,348
that is that and that is that they went

954
00:41:35,918 --> 00:41:41,259
they went broke basically very recently

955
00:41:38,349 --> 00:41:44,349

but it's not everyone here knows that do

956

00:41:41,259 --> 00:41:46,358

they know and we still get surprises and

957

00:41:44,349 --> 00:41:48,519

applause when we tell them that power

958

00:41:46,358 --> 00:41:51,400

balance in Australia folded the company

959

00:41:48,518 --> 00:41:53,889

didn't work and that was largely due to

960

00:41:51,400 --> 00:41:56,048

skeptical active activism CEO mr. Jay

961

00:41:53,889 --> 00:41:58,688

later yeah because someone was tweeting

962

00:41:56,048 --> 00:42:00,728

during your demonstration they tweeted

963

00:41:58,688 --> 00:42:03,458

if you think what Richard Saunders did

964

00:42:00,728 --> 00:42:05,318

onstage was absurd i can tell you i saw

965

00:42:03,458 --> 00:42:08,048

it two days ago at the mall down on the

966

00:42:05,318 --> 00:42:09,818

street yeah so it's kind of it happens

967

00:42:08,048 --> 00:42:11,739

everywhere here doesn't it oh yeah yeah

968

00:42:09,818 --> 00:42:14,400

there's still other power balance is

969

00:42:11,739 --> 00:42:16,980

still on sale here the original and

970
00:42:14,400 --> 00:42:20,160
not the best and all their clothes their

971
00:42:16,980 --> 00:42:24,150
cannon balance zoom or whatever hell

972
00:42:20,159 --> 00:42:25,949
Byron you yeah yeah and it's amazing to

973
00:42:24,150 --> 00:42:28,139
me that the Australian government

974
00:42:25,949 --> 00:42:29,969
cracked down on this and the US

975
00:42:28,139 --> 00:42:32,278
government well they're lagging behind

976
00:42:29,969 --> 00:42:34,108
well we were we also got interviewed

977
00:42:32,278 --> 00:42:36,659
this morning by hg u and we were talking

978
00:42:34,108 --> 00:42:39,690
about the avn actually and how we've

979
00:42:36,659 --> 00:42:42,358
utilized through legal mechanisms

980
00:42:39,690 --> 00:42:45,539
government laws and regulatory our

981
00:42:42,358 --> 00:42:47,548
bodies to kind of to kind of hold them

982
00:42:45,539 --> 00:42:49,500
to account and we're really i think well

983
00:42:47,548 --> 00:42:52,409
based on what I've been hearing from

984
00:42:49,500 --> 00:42:54,389
people here to this weekend we're quite

985
00:42:52,409 --> 00:42:56,038
unique in that sense that we do in

986
00:42:54,389 --> 00:42:58,019
Australia we complain about a regulatory

987
00:42:56,039 --> 00:42:59,849
bodies but it seems like they are

988
00:42:58,019 --> 00:43:01,409
actually equipped to do something and

989
00:42:59,849 --> 00:43:03,809
that might not be the case here that

990
00:43:01,409 --> 00:43:07,078
might not be the case but also i always

991
00:43:03,809 --> 00:43:09,869
think we've got some very dedicated

992
00:43:07,079 --> 00:43:11,789
people working on our behalf or with

993
00:43:09,869 --> 00:43:14,278
this i should say like lifeguard the

994
00:43:11,789 --> 00:43:16,260
jelly bean lady Loretta Marin yeah and

995
00:43:14,278 --> 00:43:18,690
of course ken harvey he made a complaint

996
00:43:16,260 --> 00:43:19,920
about how balanced the TGA and then

997
00:43:18,690 --> 00:43:21,690
there's you know the grassroots people

998

00:43:19,920 --> 00:43:23,338
like Chris Higgins for example who wrote

999
00:43:21,690 --> 00:43:24,990
letters to chemist warehouse d at the

1000
00:43:23,338 --> 00:43:26,068
hot band removed you know there's a

1001
00:43:24,989 --> 00:43:28,288
whole lot of people on a whole different

1002
00:43:26,068 --> 00:43:30,838
level and I think we commented on this

1003
00:43:28,289 --> 00:43:33,150
last year as well that the response that

1004
00:43:30,838 --> 00:43:34,798
we get when we come to town from people

1005
00:43:33,150 --> 00:43:37,170
here is that we seem to have a very

1006
00:43:34,798 --> 00:43:39,989
effective grassroots in a bunch of

1007
00:43:37,170 --> 00:43:42,180
people in Australia we got good we've

1008
00:43:39,989 --> 00:43:43,769
got the runs on the board and a lot of

1009
00:43:42,179 --> 00:43:47,219
people appreciate that which is good

1010
00:43:43,769 --> 00:43:49,048
yeah yeah so Richard what you don't have

1011
00:43:47,219 --> 00:43:51,598
anything else to do this weekend do you

1012
00:43:49,048 --> 00:43:54,059

know more panels at all not officially

1013

00:43:51,599 --> 00:43:56,010

no are being interviewed momentarily by

1014

00:43:54,059 --> 00:43:58,200

someone from a college newspaper and

1015

00:43:56,010 --> 00:43:59,730

then I expect people wanted me to be

1016

00:43:58,199 --> 00:44:01,348

here or go there or do that you know

1017

00:43:59,730 --> 00:44:02,699

what it's like dr. AG yeah but you also

1018

00:44:01,349 --> 00:44:05,519

have to eat some crabby lakes this

1019

00:44:02,699 --> 00:44:07,879

afternoon thank you dr. Rachel thanks

1020

00:44:05,519 --> 00:44:07,880

Richard

1021

00:44:13,798 --> 00:44:19,389

hi this is brian dunning from sceptile

1022

00:44:16,719 --> 00:44:21,369

com the best way to share the benefits

1023

00:44:19,389 --> 00:44:23,048

of critical thinking and science with

1024

00:44:21,369 --> 00:44:26,048

someone who doesn't listen to podcasts

1025

00:44:23,048 --> 00:44:28,028

is to give them a book I invite you to

1026

00:44:26,048 --> 00:44:30,369

check out my newest book based on

1027
00:44:28,028 --> 00:44:33,789
selected episodes of The sceptile cast

1028
00:44:30,369 --> 00:44:37,269
skep tied three pirates pyramids and

1029
00:44:33,789 --> 00:44:39,579
papyrus 50 chapters contain something

1030
00:44:37,268 --> 00:44:42,038
for everyone questions you've always

1031
00:44:39,579 --> 00:44:45,189
wondered about and subject to intrigue

1032
00:44:42,039 --> 00:44:47,859
and challenge your friends pirates

1033
00:44:45,188 --> 00:44:50,199
pyramids and papyrus by Brian Dunning

1034
00:44:47,858 --> 00:44:52,298
with a foreword by Richard Saunders of

1035
00:44:50,199 --> 00:44:54,849
the Australian skeptics it's available

1036
00:44:52,298 --> 00:44:58,329
now from major online booksellers as a

1037
00:44:54,849 --> 00:45:01,298
paperback and as an e-book or get a

1038
00:44:58,329 --> 00:45:09,759
personalized copy from sceptile calm I'm

1039
00:45:01,298 --> 00:45:12,610
Brian Dunning from skep tide calm his my

1040
00:45:09,759 --> 00:45:15,550
not spooky action

1041
00:45:12,610 --> 00:45:18,849
at the distance

1042
00:45:15,550 --> 00:45:20,800
hello may I you you sound really good

1043
00:45:18,849 --> 00:45:22,630
i'm just reading up on that on the

1044
00:45:20,800 --> 00:45:25,030
complete history of mine are here which

1045
00:45:22,630 --> 00:45:28,200
is just fascinating i was the minister

1046
00:45:25,030 --> 00:45:30,730
to disco during the Whitlam government I

1047
00:45:28,199 --> 00:45:33,579
like this the man club best described as

1048
00:45:30,730 --> 00:45:35,829
a food fight with a DJ on the phone I

1049
00:45:33,579 --> 00:45:38,619
have a man who is izzy's right behind

1050
00:45:35,829 --> 00:45:40,029
national Geographics bi-curious week now

1051
00:45:38,619 --> 00:45:42,309
this is a very interesting move on

1052
00:45:40,030 --> 00:45:43,720
national Geographics part Jabbar is it

1053
00:45:42,309 --> 00:45:45,489
funny may not as soon as I heard they

1054
00:45:43,719 --> 00:45:47,589
were curious my first thought was to put

1055

00:45:45,489 --> 00:45:49,419
a prefix of x on it but that's not the

1056
00:45:47,590 --> 00:45:51,700
case 13 hours a brand new programming

1057
00:45:49,420 --> 00:45:53,530
which as you would know my dad 13 hours

1058
00:45:51,699 --> 00:45:55,059
in an entire week of new programming on

1059
00:45:53,530 --> 00:45:57,160
pay TV it's just something that is

1060
00:45:55,059 --> 00:45:59,320
unheard of it is unheard of I mean like

1061
00:45:57,159 --> 00:46:00,399
the people at Discovery Channel probably

1062
00:45:59,320 --> 00:46:02,019
tearing their hair out because they've

1063
00:46:00,400 --> 00:46:04,240
only got 12 and a half they can't have

1064
00:46:02,019 --> 00:46:06,519
it did it top shark week what are we

1065
00:46:04,239 --> 00:46:08,769
gonna do shock fortnight Jabba look and

1066
00:46:06,519 --> 00:46:10,989
you I'm so envious of you you got to do

1067
00:46:08,769 --> 00:46:12,400
a little special called Jabba's curious

1068
00:46:10,989 --> 00:46:14,949
world in which you went out and spoke to

1069
00:46:12,400 --> 00:46:17,380

Australian people about the paranormal

1070

00:46:14,949 --> 00:46:19,899

yeah mainly not jobs but I'm that's fine

1071

00:46:17,380 --> 00:46:21,849

i was with kindred spirits there what is

1072

00:46:19,900 --> 00:46:23,800

it may not about people that are

1073

00:46:21,849 --> 00:46:26,319

interested in pyramids and hieroglyphics

1074

00:46:23,800 --> 00:46:28,960

and UFOs and ghosts that just seems

1075

00:46:26,320 --> 00:46:31,390

slightly unbalanced I think it's the

1076

00:46:28,960 --> 00:46:33,159

natural tendency to get intense about

1077

00:46:31,389 --> 00:46:35,259

stuff I mean you talk to people who are

1078

00:46:33,159 --> 00:46:37,269

involved in in science in any sort of

1079

00:46:35,260 --> 00:46:38,560

intense way and if you don't understand

1080

00:46:37,269 --> 00:46:40,030

what they're doing they can seem

1081

00:46:38,559 --> 00:46:42,250

unbalanced to you people that are fans

1082

00:46:40,030 --> 00:46:43,750

of Duran Duran might seem unbalanced

1083

00:46:42,250 --> 00:46:46,780

because they're very intense about that

1084
00:46:43,750 --> 00:46:48,369
if you don't share their view anyone can

1085
00:46:46,780 --> 00:46:49,990
seem unbalanced it's interesting you say

1086
00:46:48,369 --> 00:46:52,119
that because I'm a big fan of watching

1087
00:46:49,989 --> 00:46:54,189
on the couch on Foxtel which is a show

1088
00:46:52,119 --> 00:46:56,650
about AFL and I don't understand a great

1089
00:46:54,190 --> 00:46:58,480
deal about Ozzie rules 40 I do like all

1090
00:46:56,650 --> 00:47:00,220
of this and kill the same but i watch

1091
00:46:58,480 --> 00:47:01,960
the show know might these guys are mad

1092
00:47:00,219 --> 00:47:03,969
and you're exactly right it there's an

1093
00:47:01,960 --> 00:47:05,139
intensity about people that have fans of

1094
00:47:03,969 --> 00:47:08,859
stuff and I guess when you're a fan of

1095
00:47:05,139 --> 00:47:11,589
ghosts or UFOs that because they are al

1096
00:47:08,860 --> 00:47:13,840
you know or all but impossible to prove

1097
00:47:11,590 --> 00:47:15,850
their existence you know you come across

1098
00:47:13,840 --> 00:47:17,350
as quite mad on twitter I put out the

1099
00:47:15,849 --> 00:47:18,880
question any questions for java about

1100
00:47:17,349 --> 00:47:20,829
the show and brian dunning who is the

1101
00:47:18,880 --> 00:47:22,450
host of sceptile one of these skeptic

1102
00:47:20,829 --> 00:47:24,219
podcasts and he got a great question

1103
00:47:22,449 --> 00:47:26,799
here he wants to know how can the

1104
00:47:24,219 --> 00:47:29,259
average person prove the existence of

1105
00:47:26,800 --> 00:47:32,680
the paranormal to themselves

1106
00:47:29,260 --> 00:47:35,080
good question I you can't be if you

1107
00:47:32,679 --> 00:47:36,759
would like to try I guess that's all you

1108
00:47:35,079 --> 00:47:39,400
can do is to go and put yourself in

1109
00:47:36,760 --> 00:47:41,860
scenarios where your skepticism is

1110
00:47:39,400 --> 00:47:44,680
challenged and compromised for instance

1111
00:47:41,860 --> 00:47:47,050
in in the show we did a story about a

1112

00:47:44,679 --> 00:47:49,029
guy who believes there is a big cat

1113
00:47:47,050 --> 00:47:51,400
roaming the blue mountains west of

1114
00:47:49,030 --> 00:47:53,980
Sydney I saw that bit I saw that bit

1115
00:47:51,400 --> 00:47:56,710
there was actually a large Persian in

1116
00:47:53,980 --> 00:47:58,990
his backyard which he did not he missed

1117
00:47:56,710 --> 00:48:01,059
the large Persian standing about two

1118
00:47:58,989 --> 00:48:03,309
meters behind him oh it was a great

1119
00:48:01,059 --> 00:48:04,960
moment that our our producer and man on

1120
00:48:03,309 --> 00:48:07,150
the camera at the time Jeff seabury he

1121
00:48:04,960 --> 00:48:09,429
said look over there there's a big cat

1122
00:48:07,150 --> 00:48:11,050
there was a giant cat in the backyard so

1123
00:48:09,429 --> 00:48:13,480
this is a Rex gilroy Jesus shows

1124
00:48:11,050 --> 00:48:15,580
preeminent cryptozoologist which is a

1125
00:48:13,480 --> 00:48:17,760
branch of science not recognized by

1126
00:48:15,579 --> 00:48:20,799

mainstream branches of science isn't it

1127

00:48:17,760 --> 00:48:23,530

cryptozoology I thought it was ooh ology

1128

00:48:20,800 --> 00:48:26,740

both its cryptozoology because the

1129

00:48:23,530 --> 00:48:29,200

second Oh is part of ology so at zoology

1130

00:48:26,739 --> 00:48:31,419

maybe 930 DH but then it's not about

1131

00:48:29,199 --> 00:48:33,309

zoos no it's not no I don't know what

1132

00:48:31,420 --> 00:48:35,110

it's about my dad he wrecks was an

1133

00:48:33,309 --> 00:48:36,639

amazing got to spend time with and I

1134

00:48:35,110 --> 00:48:38,110

really felt for him because at the end

1135

00:48:36,639 --> 00:48:39,609

of the shoot he said look thanks so much

1136

00:48:38,110 --> 00:48:41,079

for your time and a lot of people have

1137

00:48:39,610 --> 00:48:42,640

come and shot with me and I've got a

1138

00:48:41,079 --> 00:48:43,869

really good vibe off you guys a lot of

1139

00:48:42,639 --> 00:48:45,519

people come and shoot and they just

1140

00:48:43,869 --> 00:48:47,529

didn't make fun of me I thought well

1141
00:48:45,519 --> 00:48:49,690
he's pretty perceptive because he

1142
00:48:47,530 --> 00:48:52,030
understands that people could struggle

1143
00:48:49,690 --> 00:48:53,679
to take his his interest seriously he's

1144
00:48:52,030 --> 00:48:55,060
got poor Prince he's got peak near

1145
00:48:53,679 --> 00:48:56,919
skulls that he reckons are a million

1146
00:48:55,059 --> 00:48:59,469
years old like he was probably my fate

1147
00:48:56,920 --> 00:49:01,720
my favorite encounter and I was pretty

1148
00:48:59,469 --> 00:49:03,399
skeptical about about a lot of Rex's

1149
00:49:01,719 --> 00:49:04,839
findings but you know he believes the

1150
00:49:03,400 --> 00:49:06,820
dinosaurs have appeared in the wall of

1151
00:49:04,840 --> 00:49:08,590
our national park through time shifts

1152
00:49:06,820 --> 00:49:10,720
time shift hang on so we're talking

1153
00:49:08,590 --> 00:49:12,460
about there's a wormhole of some sort

1154
00:49:10,719 --> 00:49:14,230
pretty much why these time shifts will

1155
00:49:12,460 --> 00:49:16,090
come and go and a dinosaur like a

1156
00:49:14,230 --> 00:49:17,980
helicopter pilot was flying over he

1157
00:49:16,090 --> 00:49:19,870
looked down and there was Jurassic Park

1158
00:49:17,980 --> 00:49:21,670
have any flu background and it all

1159
00:49:19,869 --> 00:49:24,429
disappears I was just your shift into in

1160
00:49:21,670 --> 00:49:26,260
the fabric of time that is very cool I

1161
00:49:24,429 --> 00:49:27,819
haven't heard that I mean just awesome

1162
00:49:26,260 --> 00:49:29,890
like you just go cares if it's true or

1163
00:49:27,820 --> 00:49:31,630
not that's a great story Jabbar it's

1164
00:49:29,889 --> 00:49:33,250
almost in the naming is show the way

1165
00:49:31,630 --> 00:49:34,690
that you interview because people ask me

1166
00:49:33,250 --> 00:49:36,340
like on this show you know they go

1167
00:49:34,690 --> 00:49:38,230
you're talking to a person and what they

1168
00:49:36,340 --> 00:49:40,329
were saying made no sense but you've

1169

00:49:38,230 --> 00:49:42,340
just basically got to be curious and ask

1170
00:49:40,329 --> 00:49:43,219
them what the evidence is and let them

1171
00:49:42,340 --> 00:49:45,650
talk to you that's all

1172
00:49:43,219 --> 00:49:47,480
going to do that's my favorite meteor I

1173
00:49:45,650 --> 00:49:49,160
suppose and it's something that you know

1174
00:49:47,480 --> 00:49:51,920
you and I may be a part of a generation

1175
00:49:49,159 --> 00:49:53,960
of people that like to give people the

1176
00:49:51,920 --> 00:49:56,150
forum to air their views unless the

1177
00:49:53,960 --> 00:49:57,710
particularly discriminatory or offensive

1178
00:49:56,150 --> 00:49:58,820
then you're what are you gonna do you're

1179
00:49:57,710 --> 00:50:01,519
gonna let people go you're going to let

1180
00:49:58,820 --> 00:50:04,010
people air their opinions about you know

1181
00:50:01,519 --> 00:50:07,009
Duran Duran or us photos why not it's

1182
00:50:04,010 --> 00:50:08,690
not my role to be the arbiter of their

1183
00:50:07,010 --> 00:50:10,430

opinion anyway because I don't have all

1184

00:50:08,690 --> 00:50:12,380

the information here let the listener

1185

00:50:10,429 --> 00:50:14,299

decide and that's the way it goes and

1186

00:50:12,380 --> 00:50:16,550

just don't say all this person is under

1187

00:50:14,300 --> 00:50:17,990

present right just say here's a person

1188

00:50:16,550 --> 00:50:20,030

with this belief let's have a listen

1189

00:50:17,989 --> 00:50:21,649

these people are there they've got their

1190

00:50:20,030 --> 00:50:23,240

interests and it's nice to help them

1191

00:50:21,650 --> 00:50:24,440

showcase it to the world I'm going to go

1192

00:50:23,239 --> 00:50:26,089

through a few of the things that was

1193

00:50:24,440 --> 00:50:28,010

covered in the show UFOs who did you

1194

00:50:26,090 --> 00:50:30,829

speak to Australian about that this

1195

00:50:28,010 --> 00:50:32,410

one's really interesting in 1966 200

1196

00:50:30,829 --> 00:50:36,049

students at Westall Secondary College

1197

00:50:32,409 --> 00:50:38,420

witnessed three shiny silver discs to

1198
00:50:36,050 --> 00:50:40,880
send on to the school level just before

1199
00:50:38,420 --> 00:50:43,460
recess and and fly off to a nearby wood

1200
00:50:40,880 --> 00:50:45,320
that's known as The Grange apparently

1201
00:50:43,460 --> 00:50:46,820
the military turned up the children were

1202
00:50:45,320 --> 00:50:49,400
warned never to speak about what they

1203
00:50:46,820 --> 00:50:51,830
didn't see 40 years later a documentary

1204
00:50:49,400 --> 00:50:53,838
was made so westall 66 is worth googling

1205
00:50:51,829 --> 00:50:55,579
if you're into UFOs a lot of us enjoyed

1206
00:50:53,838 --> 00:50:57,500
that when it was on the sci-fi channel i

1207
00:50:55,579 --> 00:50:59,210
intervene early interview the director

1208
00:50:57,500 --> 00:51:00,650
and you spoke to some of those people

1209
00:50:59,210 --> 00:51:02,960
that were featured in that documentary

1210
00:51:00,650 --> 00:51:05,329
and the traditional view is that was

1211
00:51:02,960 --> 00:51:07,190
either a mass hallucination of some sort

1212
00:51:05,329 --> 00:51:09,650
or the people have recreated the memory

1213
00:51:07,190 --> 00:51:11,240
in the time since then what do you think

1214
00:51:09,650 --> 00:51:13,070
as you spoke to the people the people

1215
00:51:11,239 --> 00:51:14,899
that actually saw something as children

1216
00:51:13,070 --> 00:51:16,910
that morning well the two options you've

1217
00:51:14,900 --> 00:51:18,980
raised there are definitely you know

1218
00:51:16,909 --> 00:51:20,868
options you know another option is it

1219
00:51:18,980 --> 00:51:23,809
actually happened and these people just

1220
00:51:20,869 --> 00:51:26,030
seem so normal just like suburban

1221
00:51:23,809 --> 00:51:27,769
Australians that I went well maybe it

1222
00:51:26,030 --> 00:51:29,330
happened the people want happy to talk

1223
00:51:27,769 --> 00:51:31,039
to you yeah absolutely i mean they've

1224
00:51:29,329 --> 00:51:32,409
sat on this thing for 40 years because

1225
00:51:31,039 --> 00:51:34,730
they were scared of being ridiculed

1226

00:51:32,409 --> 00:51:36,769
follow their stories out in the open and

1227
00:51:34,730 --> 00:51:38,659
people are interested again the other

1228
00:51:36,769 --> 00:51:40,369
option for that one is some sort of

1229
00:51:38,659 --> 00:51:42,469
experimental drone aircraft what do you

1230
00:51:40,369 --> 00:51:43,880
think about that one yeah absolutely we

1231
00:51:42,469 --> 00:51:45,618
think happen to me last night mon roi

1232
00:51:43,880 --> 00:51:47,450
the handle a weird thing happens to you

1233
00:51:45,619 --> 00:51:49,490
every night jammer because we have this

1234
00:51:47,449 --> 00:51:51,469
imaginative fictional thing that you're

1235
00:51:49,489 --> 00:51:53,149
like you know Marilyn Manson or Alice

1236
00:51:51,469 --> 00:51:55,459
Cooper and you've got this wild life at

1237
00:51:53,150 --> 00:51:57,079
night so you should say it may not yet

1238
00:51:55,460 --> 00:51:59,269
another weird thing happened to me

1239
00:51:57,079 --> 00:52:00,920
last night so started again Java it may

1240
00:51:59,269 --> 00:52:02,960

not yet another weird thing happened to

1241
00:52:00,920 --> 00:52:06,050
me last night 1 30 this morning in fact

1242
00:52:02,960 --> 00:52:08,150
my wife and I woken by a huge fan kind

1243
00:52:06,050 --> 00:52:09,950
of noise and i'm pretty sure an alien

1244
00:52:08,150 --> 00:52:11,690
spacecraft was landing on my roof what

1245
00:52:09,949 --> 00:52:14,329
was really strange about it was that all

1246
00:52:11,690 --> 00:52:16,280
night I've been watching UFO tacos on

1247
00:52:14,329 --> 00:52:18,289
that gia and I'd also downloaded the

1248
00:52:16,280 --> 00:52:19,850
wallpaper of the new cowboys and aliens

1249
00:52:18,289 --> 00:52:21,710
movie and I thought okay I'm sending

1250
00:52:19,849 --> 00:52:25,039
them signals but I'm interested what did

1251
00:52:21,710 --> 00:52:27,260
you think of the UK UFO documentary that

1252
00:52:25,039 --> 00:52:28,820
was on on Monday night what do you think

1253
00:52:27,260 --> 00:52:30,530
of that but because there was some stuff

1254
00:52:28,820 --> 00:52:32,420
from the Second World War there was some

1255
00:52:30,530 --> 00:52:34,250
more recent stuff there was the Welsh

1256
00:52:32,420 --> 00:52:35,389
Roswell which I thought is definitely a

1257
00:52:34,250 --> 00:52:37,940
Torchwood kind of thing what do you

1258
00:52:35,389 --> 00:52:39,859
think look I loved it because you know

1259
00:52:37,940 --> 00:52:41,750
in the middle of a world war and your

1260
00:52:39,860 --> 00:52:43,519
Winston Churchill there he's being

1261
00:52:41,750 --> 00:52:45,199
briefed on these reports and everyone

1262
00:52:43,519 --> 00:52:48,949
know that Winston was a bit wacky on the

1263
00:52:45,199 --> 00:52:50,750
speed to thank you you can I mean I

1264
00:52:48,949 --> 00:52:52,219
would love to see you know a dolphin

1265
00:52:50,750 --> 00:52:53,869
Winston you know slug it out

1266
00:52:52,219 --> 00:52:55,669
head-to-head man oh man style you know

1267
00:52:53,869 --> 00:52:58,190
what it was I would recommend the

1268
00:52:55,670 --> 00:53:00,860
documentary series altered statesman and

1269
00:52:58,190 --> 00:53:03,230
it does mention that Winston liked a bit

1270
00:53:00,860 --> 00:53:05,329
of a a as well as a tippie he didn't

1271
00:53:03,230 --> 00:53:07,990
enjoy like bit of the Benzedrine there

1272
00:53:05,329 --> 00:53:10,639
brings him on the youtube series of the

1273
00:53:07,989 --> 00:53:12,500
historic rap battles these two rappers

1274
00:53:10,639 --> 00:53:14,480
dressed up as historical figures and

1275
00:53:12,500 --> 00:53:17,949
kind of try and slay each other Chris

1276
00:53:14,480 --> 00:53:17,949
Stein versus Hawking

1277
00:53:22,778 --> 00:53:28,068
apply my battle theory minds are

1278
00:53:25,309 --> 00:53:31,548
relatively long so take a seat speed o

1279
00:53:28,068 --> 00:53:33,170
tu cruncher on what everyone go there

1280
00:53:31,548 --> 00:53:34,818
right now Einstein vessels Hawking

1281
00:53:33,170 --> 00:53:37,579
that's our audience you got there back

1282
00:53:34,818 --> 00:53:39,619
to the the ufos Second World War what do

1283

00:53:37,579 --> 00:53:40,910
you reckon the food fighters what you're

1284
00:53:39,619 --> 00:53:42,500
saying with West or the idea of

1285
00:53:40,909 --> 00:53:44,328
experimental craft I mean you can only

1286
00:53:42,500 --> 00:53:46,309
imagine what type of things you know

1287
00:53:44,329 --> 00:53:48,859
what boundaries were being pushed in the

1288
00:53:46,309 --> 00:53:50,869
40s I dare say they were all types of

1289
00:53:48,858 --> 00:53:53,269
experimental craft and that's probably

1290
00:53:50,869 --> 00:53:55,670
the most likely the notion that with the

1291
00:53:53,269 --> 00:54:01,009
atomic bomb being tested and detonated

1292
00:53:55,670 --> 00:54:02,960
in her oshima 1945 aliens came in 1947

1293
00:54:01,010 --> 00:54:04,220
because they saw the signal and they

1294
00:54:02,960 --> 00:54:05,869
went I would go and have a look at what

1295
00:54:04,219 --> 00:54:07,159
that is but one of the scientists symbol

1296
00:54:05,869 --> 00:54:08,838
that would mean that they live one

1297
00:54:07,159 --> 00:54:10,250

light-year away which is too close

1298

00:54:08,838 --> 00:54:11,778

because there are no stars a lot you're

1299

00:54:10,250 --> 00:54:13,400

away allow you to reach them and a lot

1300

00:54:11,778 --> 00:54:15,219

here to get here well as where the

1301

00:54:13,400 --> 00:54:18,260

wormholes might come up again Jabbar

1302

00:54:15,219 --> 00:54:19,818

babies dinosaurs piloting the space car

1303

00:54:18,260 --> 00:54:21,710

it's a bit like Star Trek next

1304

00:54:19,818 --> 00:54:24,170

generation when you got a problem invoke

1305

00:54:21,710 --> 00:54:25,760

the tachyons I detect a key on radiation

1306

00:54:24,170 --> 00:54:28,700

which means someone's from another time

1307

00:54:25,760 --> 00:54:30,799

zone and away you go new plot it's it's

1308

00:54:28,699 --> 00:54:32,088

interesting all of this paranormal stuff

1309

00:54:30,798 --> 00:54:33,798

there needs to be an element of

1310

00:54:32,088 --> 00:54:35,838

convenience to it like the Loch Ness

1311

00:54:33,798 --> 00:54:37,759

monster the abominable snowman any of

1312
00:54:35,838 --> 00:54:39,558
this stuff you need to have a convenient

1313
00:54:37,760 --> 00:54:40,490
well of course goes to be sure that I

1314
00:54:39,559 --> 00:54:41,990
want to be on camera well that's

1315
00:54:40,489 --> 00:54:43,818
convenient is underwater you you know

1316
00:54:41,989 --> 00:54:46,189
UFOs are unidentified by the definition

1317
00:54:43,818 --> 00:54:48,528
that's convenient some of the doc ozar

1318
00:54:46,190 --> 00:54:50,990
though I'm all supposed based on fact

1319
00:54:48,528 --> 00:54:52,760
did you do any EVP while you're out in

1320
00:54:50,989 --> 00:54:55,399
the field electronic voice phenomenon

1321
00:54:52,760 --> 00:54:57,589
did you try that out no we did use am an

1322
00:54:55,400 --> 00:55:01,809
EMF which I thought was unbelievable no

1323
00:54:57,588 --> 00:55:05,500
no I saw her again can you drop in

1324
00:55:01,809 --> 00:55:05,500
unbelievable you're unbelievable

1325
00:55:09,730 --> 00:55:14,380
justed debe everybody wants that on

1326
00:55:13,179 --> 00:55:15,969
whenever we do a thing about the

1327
00:55:14,380 --> 00:55:17,530
paranormal run one said in that launched

1328
00:55:15,969 --> 00:55:19,149
the young one because it was an env show

1329
00:55:17,530 --> 00:55:20,650
and by the way he he couldn't afford

1330
00:55:19,150 --> 00:55:22,570
that for the theme he wanted it

1331
00:55:20,650 --> 00:55:24,070
copyright was too much who cares about

1332
00:55:22,570 --> 00:55:26,200
that song anymore just let him have it

1333
00:55:24,070 --> 00:55:28,750
I'm sure the guy who wrote it would feel

1334
00:55:26,199 --> 00:55:30,579
the same way jaben but you had an EMR

1335
00:55:28,750 --> 00:55:32,230
meter which would kind of go off if

1336
00:55:30,579 --> 00:55:35,500
there was some electrical wiring around

1337
00:55:32,230 --> 00:55:38,230
like maybe a light bulb microphone pack

1338
00:55:35,500 --> 00:55:40,389
that we might have films with a wireless

1339
00:55:38,230 --> 00:55:42,010
microphone pack yet that would emit some

1340

00:55:40,389 --> 00:55:45,069
sort of VM is consuming that's what it

1341
00:55:42,010 --> 00:55:46,840
does finally the that kept loading up at

1342
00:55:45,070 --> 00:55:48,100
the quarantine station the greatest

1343
00:55:46,840 --> 00:55:49,510
moment that happened there was that we

1344
00:55:48,099 --> 00:55:50,949
were in the gravediggers cottage we were

1345
00:55:49,510 --> 00:55:53,830
trying to contact the gravediggers and

1346
00:55:50,949 --> 00:55:55,089
one of the internal doors slammed and I

1347
00:55:53,829 --> 00:55:57,340
kind of looked at camera know what that

1348
00:55:55,090 --> 00:55:59,050
was either a ghost or the breeze does

1349
00:55:57,340 --> 00:56:01,510
coming through here quite strongly so

1350
00:55:59,050 --> 00:56:03,640
you know I just seen it spun with our

1351
00:56:01,510 --> 00:56:05,080
minds some of the great horror movies of

1352
00:56:03,639 --> 00:56:06,670
what you don't see where would you

1353
00:56:05,079 --> 00:56:08,469
suggest they go because you've been to

1354
00:56:06,670 --> 00:56:09,670

these places in Australia now we've got

1355

00:56:08,469 --> 00:56:11,319

a whole bunch of skip existing where

1356

00:56:09,670 --> 00:56:12,940

some where they should go and just have

1357

00:56:11,320 --> 00:56:15,100

a good look around because you found it

1358

00:56:12,940 --> 00:56:17,260

curious and interesting well Maitland

1359

00:56:15,099 --> 00:56:19,179

Giles a good one you know pretty sure

1360

00:56:17,260 --> 00:56:20,619

that it goes to is there I think if

1361

00:56:19,179 --> 00:56:22,589

you're interested in this kind of thing

1362

00:56:20,619 --> 00:56:24,760

you may as well go and experience

1363

00:56:22,590 --> 00:56:26,650

environments where other people have

1364

00:56:24,760 --> 00:56:28,750

witnessed something paranormal social in

1365

00:56:26,650 --> 00:56:30,820

the UFOs may be gonna do a you know

1366

00:56:28,750 --> 00:56:32,769

drive drive out to Broken Hill and see

1367

00:56:30,820 --> 00:56:34,059

if you can see them in men at the end of

1368

00:56:32,769 --> 00:56:36,159

the day it's just another kind of

1369
00:56:34,059 --> 00:56:37,929
interesting it's more interesting than

1370
00:56:36,159 --> 00:56:39,549
the Financial Times that's what I find

1371
00:56:37,929 --> 00:56:41,739
what documentary has been your favorite

1372
00:56:39,550 --> 00:56:44,080
this week that you've seen I'd have to

1373
00:56:41,739 --> 00:56:46,419
say Roswell because the fact that these

1374
00:56:44,079 --> 00:56:50,049
people are hanging on to this conspiracy

1375
00:56:46,420 --> 00:56:53,019
that the government has kept secret for

1376
00:56:50,050 --> 00:56:54,609
70 years an alien spacecraft crashing

1377
00:56:53,019 --> 00:56:57,340
and the collection of bodies and stuff

1378
00:56:54,608 --> 00:56:59,199
it's just astounding this the people

1379
00:56:57,340 --> 00:57:01,358
won't let this go that you know whole

1380
00:56:59,199 --> 00:57:03,099
town now the entire economy is based on

1381
00:57:01,358 --> 00:57:05,108
being the UFO capital of the world is

1382
00:57:03,099 --> 00:57:07,210
there one conspiracy theory that you

1383
00:57:05,108 --> 00:57:08,559
kind of lean towards or is your favorite

1384
00:57:07,210 --> 00:57:10,329
I mean we've seen jesse ventura's

1385
00:57:08,559 --> 00:57:12,130
conspiracy theory there in the history

1386
00:57:10,329 --> 00:57:13,929
channel and that's been ripping it out

1387
00:57:12,130 --> 00:57:16,539
there is there one that warmed you up I

1388
00:57:13,929 --> 00:57:18,129
heard one recently which I I know

1389
00:57:16,539 --> 00:57:19,779
nothing about whether it's true or not

1390
00:57:18,130 --> 00:57:21,820
but you might know something on this

1391
00:57:19,780 --> 00:57:22,778
that the carbon tax is basically

1392
00:57:21,820 --> 00:57:25,359
something that was dry

1393
00:57:22,778 --> 00:57:27,188
up by macho and she was seeking to

1394
00:57:25,358 --> 00:57:29,018
discredit the coal miners when they were

1395
00:57:27,188 --> 00:57:30,908
striking in the hopes of getting people

1396
00:57:29,018 --> 00:57:33,478
more interested in nuclear power and she

1397

00:57:30,909 --> 00:57:36,880
wants make coal seam a really dirty

1398
00:57:33,478 --> 00:57:39,548
method of creating energy and the idea

1399
00:57:36,880 --> 00:57:40,838
of carbon pollution was born and it's

1400
00:57:39,548 --> 00:57:42,938
carried on from so I think that's an

1401
00:57:40,838 --> 00:57:44,889
amazing theory whether it's true whether

1402
00:57:42,938 --> 00:57:47,108
you'd ever get to the bottom of that is

1403
00:57:44,889 --> 00:57:48,668
another story well you just added yet

1404
00:57:47,108 --> 00:57:50,858
another level to the carbon tax

1405
00:57:48,668 --> 00:57:53,949
conspiracy theory on you their jabber we

1406
00:57:50,858 --> 00:57:55,838
needed that just another level people

1407
00:57:53,949 --> 00:57:57,219
love a good tax jabber thanks very much

1408
00:57:55,838 --> 00:57:58,778
for your time and next time something's

1409
00:57:57,219 --> 00:58:00,938
paranormals happening are you the go-to

1410
00:57:58,778 --> 00:58:02,918
guy should you be the go-to guy you now

1411
00:58:00,938 --> 00:58:05,199

the paranormal spokesman for the

1412

00:58:02,918 --> 00:58:08,618

everyday man I'm the Leonard Nimoy of

1413

00:58:05,199 --> 00:58:11,108

Australia hey could I be a shatner does

1414

00:58:08,619 --> 00:58:15,778

your uncle with poetry live long and

1415

00:58:11,108 --> 00:58:15,778

finger thanks man

1416

00:58:36,030 --> 00:58:41,769

thank you once again to listening to the

1417

00:58:39,219 --> 00:58:43,149

skeptic zonin thank you very much to

1418

00:58:41,769 --> 00:58:45,670

those people who have been chipping in

1419

00:58:43,150 --> 00:58:48,460

lately with some donations and weekly

1420

00:58:45,670 --> 00:58:50,889

contributions of less than a dollar much

1421

00:58:48,460 --> 00:58:52,960

appreciated very much appreciated and

1422

00:58:50,889 --> 00:58:55,809

that money is going to go continue to go

1423

00:58:52,960 --> 00:58:57,970

to the upkeep and the production of the

1424

00:58:55,809 --> 00:58:59,500

skeptic zone this week in the free

1425

00:58:57,969 --> 00:59:01,209

newsletter which accompanies every

1426
00:58:59,500 --> 00:59:05,769
episode of the skeptic zone and you can

1427
00:59:01,210 --> 00:59:09,159
subscribe at ww skeptics on TV it's the

1428
00:59:05,769 --> 00:59:11,769
video link to maynard Maynard's report

1429
00:59:09,159 --> 00:59:14,379
video report from supernova science

1430
00:59:11,769 --> 00:59:16,300
fiction festival in Sydney and that's

1431
00:59:14,380 --> 00:59:19,269
for you to enjoy on next week's show

1432
00:59:16,300 --> 00:59:22,150
some more bits and pieces from Tam Las

1433
00:59:19,269 --> 00:59:24,159
Vegas but until then this is Richard

1434
00:59:22,150 --> 00:59:30,280
Saunders signing off from Sydney

1435
00:59:24,159 --> 00:59:34,989
Australia you've been listening to the

1436
00:59:30,280 --> 00:59:38,830
skeptic zone visit our website at www

1437
00:59:34,989 --> 00:59:42,509
skeptics on TV the comments contacts and

1438
00:59:38,829 --> 00:59:42,509
extra video reports