

**The Skeptic Zone**



**Peter Doherty PhD  
Nobel Laureate 1996**

**Show 145 - 29 July 2011**

1  
00:00:23,200 --> 00:00:09,110  
welcome to the skeptic zone the podcast

2  
00:00:32,780 --> 00:00:26,979  
yes it's the skeptic zone episode number

3  
00:00:36,139 --> 00:00:32,790  
145 for the 29th of July 2011 Richard

4  
00:00:39,799 --> 00:00:36,149  
Saunders here with you jet lag over and

5  
00:00:41,540 --> 00:00:39,809  
done with from Sydney Australia now if I

6  
00:00:48,130 --> 00:00:41,550  
was looking for a word to sum up this

7  
00:00:52,660 --> 00:00:48,140  
week's show it's I ecliptic yeah an

8  
00:00:55,520 --> 00:00:52,670  
eclectic show for you today a mixed bag

9  
00:00:56,900 --> 00:00:55,530  
like a box of chocolates you never know

10  
00:00:58,099 --> 00:00:56,910  
what you're going to get but we know

11  
00:01:00,650 --> 00:00:58,109  
what we're getting this week we're

12  
00:01:04,509 --> 00:01:00,660  
getting dr. Richie reports speaking with

13  
00:01:08,150 --> 00:01:04,519

Nobel laureate professor peter doherty

14

00:01:10,580 --> 00:01:08,160

what a coup for dr. Richie professor

15

00:01:13,880 --> 00:01:10,590

Dougherty is involved with microbiology

16

00:01:16,760 --> 00:01:13,890

and immunization a kindred spirit for

17

00:01:18,770 --> 00:01:16,770

dr. Richie and a great interview for the

18

00:01:21,890 --> 00:01:18,780

rest of us coming up at the top of the

19

00:01:25,120 --> 00:01:21,900

show and following that we speak to our

20

00:01:28,180 --> 00:01:25,130

good friends from the Norwegian skeptics

21

00:01:32,300 --> 00:01:28,190

merit Simonson and her brother Ben dick

22

00:01:34,310 --> 00:01:32,310

now let's make sure their hearts go out

23

00:01:36,650 --> 00:01:34,320

to the people of noise because since the

24

00:01:38,600 --> 00:01:36,660

last episode of the zone went out not

25

00:01:40,910 --> 00:01:38,610

very long after the last episode of the

26  
00:01:44,990 --> 00:01:40,920  
zone went out we all heard that terrible

27  
00:01:47,660 --> 00:01:45,000  
news from Norway first the bombing and

28  
00:01:50,480 --> 00:01:47,670  
then shortly thereafter the horrible

29  
00:01:52,730 --> 00:01:50,490  
shooting a terrible tragedy in Norway is

30  
00:01:55,250 --> 00:01:52,740  
certainly in our thoughts at the moment

31  
00:01:57,470 --> 00:01:55,260  
so I hope you find this interview with

32  
00:02:01,310 --> 00:01:57,480  
the Norwegian skeptics particularly

33  
00:02:04,550 --> 00:02:01,320  
poignant in this week and that was from

34  
00:02:07,700 --> 00:02:04,560  
Tam Las Vegas following that is a short

35  
00:02:11,059 --> 00:02:07,710  
sort of catch-up report at tam las vegas

36  
00:02:14,780 --> 00:02:11,069  
with dr. H in myself chewing the fat

37  
00:02:17,410 --> 00:02:14,790  
talking about tan and to round off the

38  
00:02:20,920 --> 00:02:17,420

show yes it's Maynard spooky

39

00:02:26,740 --> 00:02:20,930

action and this week may not speak to

40

00:02:31,300 --> 00:02:26,750

Java hmm Jeb JEB is on pay-tv he is

41

00:02:34,840 --> 00:02:31,310

recently put out a show jabbers curious

42

00:02:37,930 --> 00:02:34,850

world covering well-known paranormal

43

00:02:40,240 --> 00:02:37,940

incidents in Australia Yowies aliens big

44

00:02:43,840 --> 00:02:40,250

cats UFOs and ghosts and all that sort

45

00:02:48,280 --> 00:02:43,850

of stuff so Maynard jabs to jabber about

46

00:02:50,590 --> 00:02:48,290

his show and what he discovered so there

47

00:02:53,949 --> 00:02:50,600

you are folks like I said an eclectic

48

00:02:56,229 --> 00:02:53,959

show for you this week starting off with

49

00:02:59,199 --> 00:02:56,239

our fantastic interview with Nobel

50

00:03:00,759 --> 00:02:59,209

laureate professor peter doherty so

51  
00:03:03,360 --> 00:03:00,769  
while we're all enjoying that I'm gonna

52  
00:03:07,330 --> 00:03:03,370  
run downstairs and grab myself a mug of

53  
00:03:10,570 --> 00:03:07,340  
instant soup yeah chicken soup yeah

54  
00:03:29,650 --> 00:03:10,580  
chicken noodle soup mmm okay that'll do

55  
00:03:39,200 --> 00:03:33,020  
now it's time for dr. Rachel reports

56  
00:03:41,750 --> 00:03:39,210  
with dr. Rachel Dunlop hello Lisbon's

57  
00:03:43,190 --> 00:03:41,760  
and welcome to dr. Reggie reports well

58  
00:03:44,690 --> 00:03:43,200  
this week I'm very pleased to present

59  
00:03:47,180 --> 00:03:44,700  
for you an interview with professor

60  
00:03:49,370 --> 00:03:47,190  
peter doherty who is best known for

61  
00:03:52,190 --> 00:03:49,380  
receiving a nobel prize in physiology or

62  
00:03:54,230 --> 00:03:52,200  
medicine in 1996 along with his

63  
00:03:55,910 --> 00:03:54,240

colleague Rob Zinka Naugle for

64

00:03:57,890 --> 00:03:55,920

uncovering the mechanism by which the

65

00:04:00,770 --> 00:03:57,900

immune system recognizes virus-infected

66

00:04:03,220 --> 00:04:00,780

cells which leads to a cascade of

67

00:04:05,570 --> 00:04:03,230

fighting killer cells known as T cells

68

00:04:07,100 --> 00:04:05,580

professor Dougherty is still active in

69

00:04:08,750 --> 00:04:07,110

research and divides his time between

70

00:04:10,250 --> 00:04:08,760

the University of Melbourne stir

71

00:04:12,770 --> 00:04:10,260

partment of microbiology and immunology

72

00:04:15,830 --> 00:04:12,780

and thus in Jude Children's Research

73

00:04:17,900 --> 00:04:15,840

Hospital in Memphis Tennessee his

74

00:04:20,420 --> 00:04:17,910

research continues today on trying to

75

00:04:22,070 --> 00:04:20,430

understand how t cells function in an

76

00:04:24,080 --> 00:04:22,080

effort to develop new vaccination

77

00:04:26,990 --> 00:04:24,090

strategies including as he'll tell us

78

00:04:29,480 --> 00:04:27,000

today maybe a cross reactive or generic

79

00:04:31,160 --> 00:04:29,490

influenza vaccine professor Dougherty is

80

00:04:33,290 --> 00:04:31,170

a prolific publisher and has written

81

00:04:35,090 --> 00:04:33,300

several books one of which i have read

82

00:04:37,100 --> 00:04:35,100

myself at the beginners guide to winning

83

00:04:39,080 --> 00:04:37,110

a Nobel Prize and I can thoroughly

84

00:04:41,390 --> 00:04:39,090

recommend it professor Dougherty is

85

00:04:43,820 --> 00:04:41,400

giving a free public lecture on Tuesday

86

00:04:46,340 --> 00:04:43,830

the second of august in canberra which

87

00:04:48,860 --> 00:04:46,350

will be live streamed from 6pm and check

88

00:04:52,850 --> 00:04:48,870

our show notes for more details so here

89

00:04:54,770 --> 00:04:52,860

we are with professor peter doherty so

90

00:04:56,450 --> 00:04:54,780

joining me today on the skeptic zone is

91

00:04:58,820 --> 00:04:56,460

professor peter doherty from the

92

00:05:02,510 --> 00:04:58,830

university of melbourne welcome Peter to

93

00:05:04,370 --> 00:05:02,520

the skeptic zone oh hi Rocio now I'm

94

00:05:07,790 --> 00:05:04,380

calling you today because you're giving

95

00:05:11,240 --> 00:05:07,800

a lecture next week in Canberra entitled

96

00:05:14,600 --> 00:05:11,250

killer viruses and killer T cells and in

97

00:05:17,990 --> 00:05:14,610

that you mentioned the eradication of

98

00:05:19,820 --> 00:05:18,000

Ryan de pest now at the end of June this

99

00:05:23,240 --> 00:05:19,830

year the who announced that they had

100

00:05:26,270 --> 00:05:23,250

finally eradicated this bovine disease

101

00:05:28,520 --> 00:05:26,280

and it killed millions and millions of

102

00:05:31,580 --> 00:05:28,530

Catalan and hoofed animals over the

103

00:05:33,890 --> 00:05:31,590

years now you think as a result of this

104

00:05:35,810 --> 00:05:33,900

that we can now also eradicate measles

105

00:05:39,950 --> 00:05:35,820

so how would we

106

00:05:43,490 --> 00:05:39,960

eradicate measles yeah well the

107

00:05:46,040 --> 00:05:43,500

rinderpest viruses it caused a decent

108

00:05:49,730 --> 00:05:46,050

massive devastation in Europe in the

109

00:05:51,950 --> 00:05:49,740

18th and 19th century and then in Africa

110

00:05:56,200 --> 00:05:51,960

it was still causing major problems up

111

00:05:59,210 --> 00:05:56,210

until the 1980s and the OIE the

112

00:06:01,070 --> 00:05:59,220

organization international deputy Joe

113

00:06:03,440 --> 00:06:01,080

teak and the FAO the Food and

114

00:06:07,000 --> 00:06:03,450

Agriculture Organization got together

115

00:06:10,400 --> 00:06:07,010

and organized big campaign to eradicate

116

00:06:14,240 --> 00:06:10,410

the disease it's caused by our

117

00:06:15,980 --> 00:06:14,250

morbillivirus and the vaccine that was

118

00:06:17,840 --> 00:06:15,990

used with the relative simple vaccine

119

00:06:20,360 --> 00:06:17,850

developed in the 1960s by guy called

120

00:06:22,610 --> 00:06:20,370

water flower right and they also did a

121

00:06:24,530 --> 00:06:22,620

lot of pretty sophisticated epidemiology

122

00:06:26,360 --> 00:06:24,540

molecular epidemiology to see where

123

00:06:28,550 --> 00:06:26,370

different strains the what causing

124

00:06:32,570 --> 00:06:28,560

diseases came from and they got rid of

125

00:06:35,180 --> 00:06:32,580

the disease some years back now and the

126

00:06:37,930 --> 00:06:35,190

official announcement was in Rome in

127

00:06:43,610 --> 00:06:37,940

july of this year they asked me along

128

00:06:46,130 --> 00:06:43,620

because i'm the first veterinarian to

129

00:06:48,860 --> 00:06:46,140

win a Nobel Prize and so I had to say a

130

00:06:50,990 --> 00:06:48,870

few words and we really was a big

131

00:06:53,180 --> 00:06:51,000

celebration of a big occasion another

132

00:06:55,190 --> 00:06:53,190

thing about rinderpest virus is that

133

00:06:58,880 --> 00:06:55,200

it's very closely related to human

134

00:07:01,190 --> 00:06:58,890

measles virus they both diverged from a

135

00:07:03,710 --> 00:07:01,200

common ancestor about ten to twelve

136

00:07:05,990 --> 00:07:03,720

hundred years back it's believed and so

137

00:07:08,810 --> 00:07:06,000

the point is if we can get rid of

138

00:07:11,570 --> 00:07:08,820

rinderpest a veterinary disease which

139

00:07:13,520 --> 00:07:11,580

also goes into wildlife it feeds pretty

140

00:07:16,460 --> 00:07:13,530

obvious we could get rid of measles

141

00:07:20,480 --> 00:07:16,470

virus but the big problem is to get

142

00:07:23,420 --> 00:07:20,490

people to vaccinate their kids yeah so I

143

00:07:25,370 --> 00:07:23,430

guess with measles I mean currently

144

00:07:26,720 --> 00:07:25,380

there are actually a pocket of outbreaks

145

00:07:28,940 --> 00:07:26,730

all over the world and in fact in

146

00:07:31,970 --> 00:07:28,950

Auckland at the moment there's a 76

147

00:07:33,890 --> 00:07:31,980

cases and the media is saying that

148

00:07:37,250 --> 00:07:33,900

almost all of those that are infected

149

00:07:40,430 --> 00:07:37,260

and not immunized so in terms of the

150

00:07:42,350 --> 00:07:40,440

possibility of eradicated measles how do

151  
00:07:44,240 --> 00:07:42,360  
you see the anti-vaccination movement as

152  
00:07:47,540 --> 00:07:44,250  
an impediment to the eradication of

153  
00:07:48,740 --> 00:07:47,550  
measles well of course it's a disaster I

154  
00:07:50,560 --> 00:07:48,750  
mean we

155  
00:07:52,670 --> 00:07:50,570  
moved away from the idea that

156  
00:07:54,920 --> 00:07:52,680  
vaccinating children some sort of

157  
00:07:56,390 --> 00:07:54,930  
collective responsibility and as a

158  
00:07:58,460 --> 00:07:56,400  
result of that we're getting regular

159  
00:08:00,500 --> 00:07:58,470  
incursions of measles we're getting

160  
00:08:03,470 --> 00:08:00,510  
whooping cough and heaven knows what

161  
00:08:05,900 --> 00:08:03,480  
next is the tendency continues we know

162  
00:08:08,120 --> 00:08:05,910  
that when vaccination systems break down

163  
00:08:10,730 --> 00:08:08,130

you get all sorts of diseases coming up

164

00:08:14,330 --> 00:08:10,740

for instance in Soviet Russia when the

165

00:08:15,770 --> 00:08:14,340

old soviet russia broke down basically a

166

00:08:17,780 --> 00:08:15,780

lot of kids were not being vaccinated

167

00:08:20,360 --> 00:08:17,790

we're having in cases of dysentery and

168

00:08:22,430 --> 00:08:20,370

all sorts of things with me drools we've

169

00:08:24,440 --> 00:08:22,440

had situations where it's been so a

170

00:08:27,890 --> 00:08:24,450

terrible problems in a South American

171

00:08:30,200 --> 00:08:27,900

country they've taken great efforts to

172

00:08:32,719 --> 00:08:30,210

control the infection and then the

173

00:08:35,300 --> 00:08:32,729

diseases being reintroduced again from

174

00:08:36,950 --> 00:08:35,310

Western countries by people who are

175

00:08:39,529 --> 00:08:36,960

traveling and haven't vaccinated their

176

00:08:41,870 --> 00:08:39,539

children they have carried the disease

177

00:08:44,660 --> 00:08:41,880

and again and so it's kind of a disaster

178

00:08:47,600 --> 00:08:44,670

how we reach people on this and how we

179

00:08:51,010 --> 00:08:47,610

educate them it seems extremely

180

00:08:53,829 --> 00:08:51,020

difficult that's such a lot of

181

00:08:56,990 --> 00:08:53,839

misinformation and misconception that

182

00:09:00,440 --> 00:08:57,000

it's very hard to cut through well I

183

00:09:02,210 --> 00:09:00,450

guess an example of a vaccine

184

00:09:04,280 --> 00:09:02,220

preventable disease occurring in

185

00:09:06,290 --> 00:09:04,290

Australia recently was a 22 year old

186

00:09:09,110 --> 00:09:06,300

girl died from diphtheria and Brisbane

187

00:09:10,550 --> 00:09:09,120

only a few months ago and it turned out

188

00:09:12,770 --> 00:09:10,560

that she probably didn't even know she

189

00:09:14,660 --> 00:09:12,780

wasn't vaccinated and her friend had

190

00:09:15,740 --> 00:09:14,670

been obviously and then imported it back

191

00:09:17,180 --> 00:09:15,750

to Australia because it's now an

192

00:09:20,240 --> 00:09:17,190

important disease in his country

193

00:09:23,030 --> 00:09:20,250

diphtheria isn't it I believe so and

194

00:09:24,620 --> 00:09:23,040

that's another tragedy of course if you

195

00:09:27,680 --> 00:09:24,630

don't vaccinate someone when they're a

196

00:09:30,380 --> 00:09:27,690

child they may be quite unaware and then

197

00:09:32,510 --> 00:09:30,390

travel say to a area of the world where

198

00:09:36,079 --> 00:09:32,520

a disease that we don't see very much is

199

00:09:37,520 --> 00:09:36,089

is endemic in the spreading and they can

200

00:09:41,030 --> 00:09:37,530

come down with conditions like

201  
00:09:43,160 --> 00:09:41,040  
poliomyelitis and so forth so we hope to

202  
00:09:46,310 --> 00:09:43,170  
get thalia myelitis eradicated from the

203  
00:09:48,170 --> 00:09:46,320  
world that's it's reasonably close i

204  
00:09:50,120 --> 00:09:48,180  
think has been an enormous campaign

205  
00:09:52,430 --> 00:09:50,130  
that's been going for many years but we

206  
00:09:54,680 --> 00:09:52,440  
had hope to get rid of it by 2002 and

207  
00:09:57,079 --> 00:09:54,690  
it's still not completely gone now a

208  
00:10:01,070 --> 00:09:57,089  
part of thats been due to disruption in

209  
00:10:02,060 --> 00:10:01,080  
war zones and so forth but it hopefully

210  
00:10:04,610 --> 00:10:02,070  
will go

211  
00:10:07,490 --> 00:10:04,620  
and measles could be eradicated but

212  
00:10:10,610 --> 00:10:07,500  
everyone would have to bake tonight now

213  
00:10:12,590 --> 00:10:10,620

can you explain just briefly professor

214

00:10:14,150 --> 00:10:12,600

about herd immunity because I think a

215

00:10:16,490 --> 00:10:14,160

lot of people who don't vaccinate their

216

00:10:18,050 --> 00:10:16,500

children don't believe in that the

217

00:10:19,790 --> 00:10:18,060

concept of herd immunity and that's what

218

00:10:21,560 --> 00:10:19,800

we really need to eradicate these sort

219

00:10:23,840 --> 00:10:21,570

of vaccine-preventable diseases don't

220

00:10:25,940 --> 00:10:23,850

like a lot of people who don't vaccinate

221

00:10:28,430 --> 00:10:25,950

their children are relatively protected

222

00:10:30,530 --> 00:10:28,440

because of your herd immunity if we can

223

00:10:34,580 --> 00:10:30,540

keep vaccination rates up at about

224

00:10:38,120 --> 00:10:34,590

eighty percent then the viruses that

225

00:10:40,910 --> 00:10:38,130

only within human populations generally

226

00:10:42,620 --> 00:10:40,920

don't cause a major problem so it's

227

00:10:44,660 --> 00:10:42,630

always been the case that some people

228

00:10:47,630 --> 00:10:44,670

have stood out from vaccinations for

229

00:10:48,740 --> 00:10:47,640

religious reasons or whatever but if you

230

00:10:51,890 --> 00:10:48,750

keep it up around the eighty percent

231

00:10:55,070 --> 00:10:51,900

level I think is the general accepted

232

00:10:57,140 --> 00:10:55,080

figure them then you're okay but when it

233

00:10:59,570 --> 00:10:57,150

falls much below that then you start to

234

00:11:01,790 --> 00:10:59,580

get problems and as you know we've had

235

00:11:03,680 --> 00:11:01,800

this from hooping coffins of within this

236

00:11:07,310 --> 00:11:03,690

country that should never actually occur

237

00:11:11,930 --> 00:11:07,320

but it's just part of the part of the

238

00:11:15,200 --> 00:11:11,940

human tragedy I think that we don't

239

00:11:17,630 --> 00:11:15,210

accept now the opinion of professionals

240

00:11:19,880 --> 00:11:17,640

who actually started racing when we come

241

00:11:22,490 --> 00:11:19,890

up with our own own view of the world on

242

00:11:23,900 --> 00:11:22,500

issues like vaccination I think one of

243

00:11:26,060 --> 00:11:23,910

the other problems too is people don't

244

00:11:29,900 --> 00:11:26,070

understand the risk-benefit ratio and I

245

00:11:33,020 --> 00:11:29,910

suppose that there was a bit of an

246

00:11:36,560 --> 00:11:33,030

increase in adverse reactions last year

247

00:11:39,080 --> 00:11:36,570

to their CSL flu vaccination part of the

248

00:11:41,810 --> 00:11:39,090

prop out of the problem is that is that

249

00:11:44,060 --> 00:11:41,820

if you don't see the diseases and then

250

00:11:47,000 --> 00:11:44,070

you have your child vaccinated and the

251

00:11:49,250 --> 00:11:47,010

child does react then that their cross

252

00:11:51,110 --> 00:11:49,260

one note that I'm sofa with for a time

253

00:11:53,000 --> 00:11:51,120

which they can be after vaccination

254

00:11:55,220 --> 00:11:53,010

because of course of course an immune

255

00:11:56,570 --> 00:11:55,230

response and immune responses cause the

256

00:11:59,540 --> 00:11:56,580

production of all sorts of chemicals

257

00:12:02,030 --> 00:11:59,550

chemical mediators like cytokines and

258

00:12:04,550 --> 00:12:02,040

chemokines now that can actually make

259

00:12:06,020 --> 00:12:04,560

you feel a bit lousy for a while much

260

00:12:08,180 --> 00:12:06,030

less so than if you actually get the

261

00:12:11,060 --> 00:12:08,190

infection not so that's part of the

262

00:12:12,860 --> 00:12:11,070

issue is that people will react against

263

00:12:15,350 --> 00:12:12,870

that then of course there's been this

264

00:12:16,070 --> 00:12:15,360

whole thing about the measles mumps

265

00:12:19,580 --> 00:12:16,080

rubella

266

00:12:21,410 --> 00:12:19,590

the MMR vaccine and the under claims

267

00:12:23,960 --> 00:12:21,420

that it's supposed to be associated with

268

00:12:26,630 --> 00:12:23,970

the development of autism for in fact

269

00:12:29,240 --> 00:12:26,640

people had gone back and looked at that

270

00:12:30,860 --> 00:12:29,250

with with tremendous thoroughness and

271

00:12:33,350 --> 00:12:30,870

that's been a very large amounts of

272

00:12:35,270 --> 00:12:33,360

money it was a very limited report that

273

00:12:38,420 --> 00:12:35,280

first claimed us I think we're coming

274

00:12:39,800 --> 00:12:38,430

like 10 or 11 cases and all except one

275

00:12:41,960 --> 00:12:39,810

of the authors I think have now

276

00:12:44,570 --> 00:12:41,970

withdrawn the claim there's been no

277

00:12:46,250 --> 00:12:44,580

support for it at all that doesn't of

278

00:12:48,890 --> 00:12:46,260

course rule out the possibility that

279

00:12:50,990 --> 00:12:48,900

could be something somewhere because you

280

00:12:53,510 --> 00:12:51,000

always wonder whether there might be

281

00:12:57,220 --> 00:12:53,520

someone with a particular genetic makeup

282

00:13:01,790 --> 00:12:57,230

than might have an adverse reaction to a

283

00:13:04,700 --> 00:13:01,800

vaccine so nothing is absolutely safe

284

00:13:06,920 --> 00:13:04,710

and that includes vaccines and that

285

00:13:08,570 --> 00:13:06,930

requires to understand that you need to

286

00:13:11,120 --> 00:13:08,580

think about risk-benefit analysis

287

00:13:15,710 --> 00:13:11,130

basically what what what is the relevant

288

00:13:17,720 --> 00:13:15,720

risk and that is not a sort of idea

289

00:13:20,930 --> 00:13:17,730

that's prevalent in our population I

290

00:13:23,120 --> 00:13:20,940

think now you were you're on the team or

291

00:13:26,480 --> 00:13:23,130

the Task Force that investigated the

292

00:13:28,730 --> 00:13:26,490

issues with the CSL flu vax which caused

293

00:13:33,350 --> 00:13:28,740

increased adverse events and kids under

294

00:13:35,420 --> 00:13:33,360

five yeah I believe that that that you

295

00:13:37,400 --> 00:13:35,430

actually weren't able to identify what

296

00:13:39,110 --> 00:13:37,410

exactly was causing that what was the

297

00:13:41,270 --> 00:13:39,120

outcome of other things I got a pretty

298

00:13:43,250 --> 00:13:41,280

fair idea what might be going on the

299

00:13:45,320 --> 00:13:43,260

thing I was involved when was a small

300

00:13:47,270 --> 00:13:45,330

technical group really that was asked

301  
00:13:49,700 --> 00:13:47,280  
and look to see whether they could see

302  
00:13:52,610 --> 00:13:49,710  
any reason to this basically lab-based

303  
00:13:54,110 --> 00:13:52,620  
scientists and medical doctors who were

304  
00:13:56,930 --> 00:13:54,120  
looking at the broader picture of the

305  
00:13:58,670 --> 00:13:56,940  
epidemiology of the infection basically

306  
00:14:01,700 --> 00:13:58,680  
there was a real signal and it seemed

307  
00:14:03,500 --> 00:14:01,710  
what was happening was that the CEO cell

308  
00:14:07,280 --> 00:14:03,510  
vaccine was giving it very powerful

309  
00:14:09,320 --> 00:14:07,290  
immune response and it was to some

310  
00:14:12,190 --> 00:14:09,330  
extent what we can react to genic and

311  
00:14:14,750 --> 00:14:12,200  
that is it was producing so much in this

312  
00:14:17,120 --> 00:14:14,760  
chemokines cytokine type of stuff that

313  
00:14:18,770 --> 00:14:17,130

we get in any infection that it was

314

00:14:21,080 --> 00:14:18,780

causing some teases and when you give

315

00:14:22,760 --> 00:14:21,090

cause fever in young children a

316

00:14:26,180 --> 00:14:22,770

proportion of them going to convulsions

317

00:14:28,639 --> 00:14:26,190

and so it it was picked up fairly

318

00:14:30,769 --> 00:14:28,649

quickly and

319

00:14:33,290 --> 00:14:30,779

the vaccine was pretty quickly withdrawn

320

00:14:35,299 --> 00:14:33,300

and a safe vaccine was instigated and

321

00:14:37,369 --> 00:14:35,309

said that there's nothing basically

322

00:14:40,670 --> 00:14:37,379

wrong with the CSL vaccine it was just a

323

00:14:41,929 --> 00:14:40,680

very powerful vaccine and it turned out

324

00:14:44,420 --> 00:14:41,939

that it was just a bit too much for

325

00:14:46,549 --> 00:14:44,430

little kids they replaced it I think

326

00:14:49,460 --> 00:14:46,559

with the sanofi vaccine which doesn't

327

00:14:53,359 --> 00:14:49,470

get such a strong response and then it

328

00:14:55,519 --> 00:14:53,369

was safe to vaccinate small children so

329

00:14:59,090 --> 00:14:55,529

if flu season is upon us at the moment

330

00:15:01,280 --> 00:14:59,100

professor and I guess when you actually

331

00:15:03,230 --> 00:15:01,290

can be very dangerous and with the

332

00:15:05,449 --> 00:15:03,240

recent swine flu epidemics that went

333

00:15:07,309 --> 00:15:05,459

around the world some people would have

334

00:15:09,499 --> 00:15:07,319

said that the preparation done by

335

00:15:13,939 --> 00:15:09,509

governments was an overreaction that we

336

00:15:15,410 --> 00:15:13,949

made all this vaccine we made we asked

337

00:15:18,139 --> 00:15:15,420

people to get vaccinated and then

338

00:15:20,780 --> 00:15:18,149

nothing happened but if perhaps that

339

00:15:23,569 --> 00:15:20,790

virus hadn't turned out to be had turned

340

00:15:24,739 --> 00:15:23,579

out to be more virulent than it was what

341

00:15:26,269 --> 00:15:24,749

would have happened if we hadn't done

342

00:15:29,239 --> 00:15:26,279

that if we weren't prepared for that

343

00:15:31,850 --> 00:15:29,249

epidemic the thing about influenza

344

00:15:34,460 --> 00:15:31,860

pandemics is you can never really be

345

00:15:36,610 --> 00:15:34,470

quite sure what they'll do you can't

346

00:15:38,419 --> 00:15:36,620

know in prediction in science is always

347

00:15:40,639 --> 00:15:38,429

probabilistic I mean you can never

348

00:15:42,199 --> 00:15:40,649

absolutely predict anything and so

349

00:15:44,150 --> 00:15:42,209

you're always stuck with the situation

350

00:15:47,449 --> 00:15:44,160

you don't know what's going to happen in

351

00:15:51,290 --> 00:15:47,459

actual fact the perception that the h1n1

352

00:15:54,199 --> 00:15:51,300

swine flu was pretty mild is is not

353

00:15:58,189 --> 00:15:54,209

really quite correct the fact of the

354

00:16:00,559 --> 00:15:58,199

matter was that it didn't affect older

355

00:16:02,780 --> 00:16:00,569

people normally the people is to come to

356

00:16:05,749 --> 00:16:02,790

influenza and an influenza epidemic or

357

00:16:08,840 --> 00:16:05,759

pandemic people are in their sixties and

358

00:16:10,429 --> 00:16:08,850

seventies because their immune systems

359

00:16:12,289 --> 00:16:10,439

Awakening and they're much more

360

00:16:14,419 --> 00:16:12,299

susceptible to respiratory infection I

361

00:16:16,999 --> 00:16:14,429

mean if you took the sars outbreak for

362

00:16:18,860 --> 00:16:17,009

instance it cost about ten percent

363

00:16:22,189 --> 00:16:18,870

mortality in young people and fifty

364

00:16:24,650 --> 00:16:22,199

percent mortality in old people so with

365

00:16:27,109 --> 00:16:24,660

this influenza virus the swine influenza

366

00:16:29,419 --> 00:16:27,119

virus it turned out the people who were

367

00:16:31,429 --> 00:16:29,429

born before 1950 had cross-reactive

368

00:16:33,889 --> 00:16:31,439

immunity and been exposed to something

369

00:16:36,739 --> 00:16:33,899

rather similar way back and they still

370

00:16:39,829 --> 00:16:36,749

had immunity to it and as a result of

371

00:16:41,570 --> 00:16:39,839

that the deaths rates and the infection

372

00:16:45,380 --> 00:16:41,580

rates in older people were really

373

00:16:47,810 --> 00:16:45,390

low but what we did see is a reasonable

374

00:16:50,930 --> 00:16:47,820

amount of extremely severe disease in

375

00:16:53,570 --> 00:16:50,940

fit healthy young adult you know if you

376

00:16:55,370 --> 00:16:53,580

talk about this stuff and you you find

377

00:16:57,350 --> 00:16:55,380

on talkback radio you're talking to a

378

00:16:59,540 --> 00:16:57,360

nanny vaccine person they say well I

379

00:17:02,270 --> 00:16:59,550

know how to keep my child fit and

380

00:17:05,329 --> 00:17:02,280

healthy and so forth but actually with

381

00:17:06,800 --> 00:17:05,339

influenza both in this outbreak and in

382

00:17:08,690 --> 00:17:06,810

the nineteen eighteen outbreak that

383

00:17:10,160 --> 00:17:08,700

killed a lot of people a lot of people

384

00:17:12,650 --> 00:17:10,170

who are particularly susceptible with

385

00:17:14,180 --> 00:17:12,660

young people and that probably is

386

00:17:16,010 --> 00:17:14,190

because they're making too strong an

387

00:17:19,070 --> 00:17:16,020

immune response and they're getting some

388

00:17:23,090 --> 00:17:19,080

of this what we call cytokine effect and

389

00:17:25,610 --> 00:17:23,100

so we we had a number of young healthy

390

00:17:29,680 --> 00:17:25,620

people who only survived because I put

391

00:17:31,820 --> 00:17:29,690

on ECMO the extracorporeal membrane

392

00:17:35,300 --> 00:17:31,830

oxygenation that heart-lung type

393

00:17:38,030 --> 00:17:35,310

machines and also we had six times as

394

00:17:40,250 --> 00:17:38,040

many pregnant women in hospital in

395

00:17:43,400 --> 00:17:40,260

critical care beds so there was

396

00:17:45,830 --> 00:17:43,410

something really going on and we don't

397

00:17:47,360 --> 00:17:45,840

fully understand what that was we're

398

00:17:49,520 --> 00:17:47,370

getting a much better understanding of

399

00:17:51,200 --> 00:17:49,530

how influential works using modern

400

00:17:54,650 --> 00:17:51,210

molecular medicine techniques but we

401  
00:17:56,540 --> 00:17:54,660  
still we've still got a way to go well

402  
00:17:59,360 --> 00:17:56,550  
it's part of your Nobel Prize discovery

403  
00:18:01,370 --> 00:17:59,370  
you characterized how it is that t-cells

404  
00:18:03,440 --> 00:18:01,380  
which is also known as killer cells in

405  
00:18:06,170 --> 00:18:03,450  
our immune system recognize specific

406  
00:18:09,910 --> 00:18:06,180  
molecules on other cells that are called

407  
00:18:12,980 --> 00:18:09,920  
MHC molecules and this was how that they

408  
00:18:14,120 --> 00:18:12,990  
induced an immune response now part of

409  
00:18:16,610 --> 00:18:14,130  
the work that you're interested in doing

410  
00:18:18,760 --> 00:18:16,620  
now with your team in Australia in

411  
00:18:21,770 --> 00:18:18,770  
America is developing a cross reactive

412  
00:18:23,690 --> 00:18:21,780  
influenza vaccine can you tell us a bit

413  
00:18:27,770 --> 00:18:23,700

a bit about that and why would that be

414

00:18:30,560 --> 00:18:27,780

beneficial yeah that the issue with the

415

00:18:32,030 --> 00:18:30,570

influenza vaccines is because of viruses

416

00:18:34,160 --> 00:18:32,040

change all the time they shanked by

417

00:18:36,110 --> 00:18:34,170

mutation which we called antigenic drift

418

00:18:38,600 --> 00:18:36,120

and they can also change but change by

419

00:18:40,460 --> 00:18:38,610

reassortment influenza viruses have a

420

00:18:42,950 --> 00:18:40,470

genome with eight different segments as

421

00:18:45,020 --> 00:18:42,960

you intact itself simultaneously with

422

00:18:47,360 --> 00:18:45,030

tubular viruses they can repackage and

423

00:18:48,680 --> 00:18:47,370

you get new flood flu viruses out and

424

00:18:50,750 --> 00:18:48,690

that's been the source of some of the

425

00:18:53,360 --> 00:18:50,760

new pandemic viruses including the swine

426

00:18:54,500 --> 00:18:53,370

flu one where to swine blight viruses

427

00:18:56,960 --> 00:18:54,510

got together that would

428

00:18:58,940 --> 00:18:56,970

current Andrea sorted and then out came

429

00:19:03,500 --> 00:18:58,950

a virus which was very infectious for

430

00:19:06,230 --> 00:19:03,510

him so the issue of flu vaccines means

431

00:19:09,740 --> 00:19:06,240

that if you get a sudden flu outbreak as

432

00:19:12,200 --> 00:19:09,750

we did with the swine flu one then you

433

00:19:15,830 --> 00:19:12,210

don't have vaccine and it takes about

434

00:19:19,310 --> 00:19:15,840

six months to make vaccine the the 19 /

435

00:19:21,110 --> 00:19:19,320

2009 swine flu was detected in i think

436

00:19:25,100 --> 00:19:21,120

it was in Mexico in California about

437

00:19:27,200 --> 00:19:25,110

April 2009 by may 2009 was in melbourne

438

00:19:29,450 --> 00:19:27,210

australia and by September it was all

439

00:19:31,100 --> 00:19:29,460

around the world and we didn't get any

440

00:19:34,490 --> 00:19:31,110

vaccine at the people vows before

441

00:19:37,130 --> 00:19:34,500

September basically and you know there

442

00:19:39,020 --> 00:19:37,140

was a big goes in Canada in October of

443

00:19:41,210 --> 00:19:39,030

that year and there was a big furor

444

00:19:42,950 --> 00:19:41,220

because the young boy had died from it

445

00:19:45,980 --> 00:19:42,960

and people couldn't get vaccine and our

446

00:19:47,600 --> 00:19:45,990

very upset about it now we made a lot of

447

00:19:49,640 --> 00:19:47,610

vaccine and the vaccine turned out to be

448

00:19:52,390 --> 00:19:49,650

very energetic it was actually a very

449

00:19:55,100 --> 00:19:52,400

good vaccine in factors except to live

450

00:19:56,750 --> 00:19:55,110

the situation we discussed earlier with

451  
00:20:00,410 --> 00:19:56,760  
little children and Western Australia

452  
00:20:02,810 --> 00:20:00,420  
where is really too strong and so so the

453  
00:20:05,540 --> 00:20:02,820  
vaccine worked pretty well the current

454  
00:20:06,890 --> 00:20:05,550  
fluid flu outbreak in Australia is I

455  
00:20:08,960 --> 00:20:06,900  
think there's a lot of influence of the

456  
00:20:11,870 --> 00:20:08,970  
virus which in the rather different sort

457  
00:20:13,670 --> 00:20:11,880  
of virus circulating and we're worried

458  
00:20:17,300 --> 00:20:13,680  
waiting to see what how that hoping will

459  
00:20:20,360 --> 00:20:17,310  
develop now with respect to the killer T

460  
00:20:23,420 --> 00:20:20,370  
cells these just other cells have

461  
00:20:25,040 --> 00:20:23,430  
destroyed virus-infected cells and as

462  
00:20:26,720 --> 00:20:25,050  
you say they focus on to our own

463  
00:20:28,370 --> 00:20:26,730

transplant molecules that have been

464

00:20:31,370 --> 00:20:28,380

modified by having a little bit of the

465

00:20:33,170 --> 00:20:31,380

virus in their tip and the bit of virus

466

00:20:35,060 --> 00:20:33,180

the tens to hundreds attempts to come

467

00:20:37,580 --> 00:20:35,070

from internal proteins to the virus

468

00:20:40,250 --> 00:20:37,590

which tend to be rather conserved and so

469

00:20:42,380 --> 00:20:40,260

there's a lot of cross-reactivity and we

470

00:20:44,630 --> 00:20:42,390

think that maybe we primed up that

471

00:20:47,120 --> 00:20:44,640

cross-reactivity it would help to make a

472

00:20:48,650 --> 00:20:47,130

much more cross-reactive vaccine and if

473

00:20:50,630 --> 00:20:48,660

we could make a much more cross-reactive

474

00:20:54,350 --> 00:20:50,640

axon we could make it ahead of time and

475

00:20:56,540 --> 00:20:54,360

even store it in in the case of a new

476  
00:20:58,100 --> 00:20:56,550  
pandemic stern emerging there's also a

477  
00:20:59,690 --> 00:20:58,110  
lot of other stuff being discussed from

478  
00:21:01,670 --> 00:20:59,700  
the point of view of trying to focus the

479  
00:21:04,040 --> 00:21:01,680  
antibody response the other component of

480  
00:21:06,860 --> 00:21:04,050  
immunity which normally the important

481  
00:21:07,470 --> 00:21:06,870  
thing in philly vaccines onto shared or

482  
00:21:10,050 --> 00:21:07,480  
concern

483  
00:21:13,110 --> 00:21:10,060  
regions of the protein by modifying the

484  
00:21:15,330 --> 00:21:13,120  
protein and and and changing the way

485  
00:21:16,710 --> 00:21:15,340  
it's presented to the immune system so

486  
00:21:19,410 --> 00:21:16,720  
there's a lot of discussion a lot of

487  
00:21:21,480 --> 00:21:19,420  
excitement now in vaccine research with

488  
00:21:23,250 --> 00:21:21,490

new molecular technology hoping

489

00:21:25,710 --> 00:21:23,260

hopefully giving us much better vaccine

490

00:21:27,300 --> 00:21:25,720

so if we could develop a cross reactive

491

00:21:29,400 --> 00:21:27,310

influenza vaccine then we wouldn't have

492

00:21:31,830 --> 00:21:29,410

to make a new one every year and and

493

00:21:33,810 --> 00:21:31,840

model it to the specific strain would we

494

00:21:35,850 --> 00:21:33,820

could just have like a generic silly

495

00:21:39,510 --> 00:21:35,860

vaccine that that would be wonderful

496

00:21:41,370 --> 00:21:39,520

from the point of view of Medicine if we

497

00:21:42,960 --> 00:21:41,380

could make a cross reactive vaccine that

498

00:21:45,150 --> 00:21:42,970

we didn't have to give every year and

499

00:21:48,990 --> 00:21:45,160

even if it was a vaccine that didn't

500

00:21:50,670 --> 00:21:49,000

protect totally that allowed a low level

501  
00:21:53,040 --> 00:21:50,680  
of infection for instance that would

502  
00:21:54,840 --> 00:21:53,050  
have the effect a really boosting

503  
00:21:56,730 --> 00:21:54,850  
immunity so there may be some advantage

504  
00:21:58,890 --> 00:21:56,740  
in that now whether we'll ever get to

505  
00:22:02,280 --> 00:21:58,900  
that we don't know but I think we should

506  
00:22:04,110 --> 00:22:02,290  
try pretty hard to do it part of the

507  
00:22:06,480 --> 00:22:04,120  
issue that would be as even though this

508  
00:22:08,280 --> 00:22:06,490  
looks might look very good from the the

509  
00:22:09,630 --> 00:22:08,290  
point of view of university researchers

510  
00:22:11,720 --> 00:22:09,640  
and so what would it look really good

511  
00:22:17,130 --> 00:22:11,730  
from the point of view of drug company

512  
00:22:19,080 --> 00:22:17,140  
good point that's not very lucrative if

513  
00:22:20,820 --> 00:22:19,090

they have one vaccine too well you know

514

00:22:23,000 --> 00:22:20,830

and also that the enormous cost of

515

00:22:26,760 --> 00:22:23,010

putting any any new vaccine through

516

00:22:29,340 --> 00:22:26,770

through trials now that's a lot of money

517

00:22:33,300 --> 00:22:29,350

to do to develop something that's a

518

00:22:35,340 --> 00:22:33,310

totally new product to human years yeah

519

00:22:37,560 --> 00:22:35,350

so just a couple of final questions

520

00:22:39,690 --> 00:22:37,570

professor on that issue of vaccine

521

00:22:41,220 --> 00:22:39,700

testing now you do find the anti-vaxxers

522

00:22:43,080 --> 00:22:41,230

will say because there's a new flu

523

00:22:44,520 --> 00:22:43,090

vaccine every year therefore it hasn't

524

00:22:46,800 --> 00:22:44,530

been tested therefore I'm not going to

525

00:22:50,040 --> 00:22:46,810

give it to my children now the fact that

526

00:22:53,640 --> 00:22:50,050

we've had flu vaccines in place for a

527

00:22:56,940 --> 00:22:53,650

long time surely that's the testing that

528

00:22:59,040 --> 00:22:56,950

we're doing yeah it is that's true I

529

00:23:01,770 --> 00:22:59,050

mean we couldn't if we had to go through

530

00:23:04,440 --> 00:23:01,780

the full testing for flu vaccine every

531

00:23:06,030 --> 00:23:04,450

year and in the sensor was a new product

532

00:23:08,360 --> 00:23:06,040

we never get any vaccine out there at

533

00:23:10,890 --> 00:23:08,370

all I mean there's a question about

534

00:23:12,870 --> 00:23:10,900

vaccinations children as as what

535

00:23:15,900 --> 00:23:12,880

happened with the the Western Australian

536

00:23:17,670 --> 00:23:15,910

situation you know the situation is if

537

00:23:20,850 --> 00:23:17,680

you get large numbers of children

538

00:23:23,460 --> 00:23:20,860

infected and civilian fected people

539

00:23:26,730 --> 00:23:23,470

to use a vaccine that the it's this

540

00:23:30,900 --> 00:23:26,740

issue of nothing is ever totally safe I

541

00:23:32,850 --> 00:23:30,910

mean we know that I mean it's not safe

542

00:23:34,770 --> 00:23:32,860

to cross a road for instance we know

543

00:23:37,500 --> 00:23:34,780

that we when we wear seatbelts in a car

544

00:23:39,510 --> 00:23:37,510

that seed dogs normally protect us but

545

00:23:41,070 --> 00:23:39,520

you know sometimes the accident can be

546

00:23:45,270 --> 00:23:41,080

worse because we're wearing a seatbelt

547

00:23:47,580 --> 00:23:45,280

and it's the same issue there's not

548

00:23:50,669 --> 00:23:47,590

nothing in life that is totally without

549

00:23:52,650 --> 00:23:50,679

risk though I think we go over the top a

550

00:23:55,440 --> 00:23:52,660

little bit in current society trying to

551  
00:23:58,710 --> 00:23:55,450  
minimize risk and you have to be able to

552  
00:24:01,080 --> 00:23:58,720  
live and I'm not living a cocoon so I

553  
00:24:02,549 --> 00:24:01,090  
think you're planning to retire from

554  
00:24:04,110 --> 00:24:02,559  
research soon is that right but you're

555  
00:24:06,630 --> 00:24:04,120  
never going to give up science because

556  
00:24:08,220 --> 00:24:06,640  
I'm a scientist myself and I know that

557  
00:24:13,260 --> 00:24:08,230  
as a scientist you can never give it up

558  
00:24:16,740 --> 00:24:13,270  
so what are your plans well I'm 70 70

559  
00:24:18,000 --> 00:24:16,750  
years old and we have a program grant

560  
00:24:19,919 --> 00:24:18,010  
for the Australian National Health

561  
00:24:22,110 --> 00:24:19,929  
Medical Research Council that runs for

562  
00:24:24,750 --> 00:24:22,120  
another 30 years plus and I'm also

563  
00:24:28,500 --> 00:24:24,760

involved in a big what we call systems

564

00:24:30,360 --> 00:24:28,510

biology research effort on influenza

565

00:24:32,789 --> 00:24:30,370

trying to understand early influence or

566

00:24:34,470 --> 00:24:32,799

infection in the United States I'm more

567

00:24:36,630 --> 00:24:34,480

Thunder it looks for a general audience

568

00:24:38,909 --> 00:24:36,640

about science and trying to talk about

569

00:24:42,630 --> 00:24:38,919

science to people who don't think about

570

00:24:45,320 --> 00:24:42,640

it all the time and I've got one book

571

00:24:50,270 --> 00:24:45,330

that you to come out next year that's on

572

00:24:52,260 --> 00:24:50,280

birds and infection and the Cubs

573

00:24:54,210 --> 00:24:52,270

tentatively at the moment it's called

574

00:24:56,100 --> 00:24:54,220

Sentinel chickens we will see what it

575

00:25:00,510 --> 00:24:56,110

ends up as not only writing a book on

576

00:25:04,500 --> 00:25:00,520

pandemics I think scientists need to try

577

00:25:06,570 --> 00:25:04,510

to talk to people and to try to get

578

00:25:08,549 --> 00:25:06,580

across messages about what they do

579

00:25:10,020 --> 00:25:08,559

understand and the limitations of their

580

00:25:12,419 --> 00:25:10,030

understanding and what they think is

581

00:25:16,169 --> 00:25:12,429

important and so I'll probably spend the

582

00:25:19,110 --> 00:25:16,179

rest of my active life trying to do that

583

00:25:20,490 --> 00:25:19,120

I think if I were younger I'd probably

584

00:25:22,440 --> 00:25:20,500

try to do it through the blogosphere

585

00:25:23,940 --> 00:25:22,450

which is probably much more effective

586

00:25:25,919 --> 00:25:23,950

but I have young people are already

587

00:25:27,480 --> 00:25:25,929

doing that and of course you're doing

588

00:25:30,270 --> 00:25:27,490

podcasts which is a good way to approach

589

00:25:32,190 --> 00:25:30,280

these issues I think that's a really

590

00:25:33,750 --> 00:25:32,200

pertinent point that you raised because

591

00:25:34,740 --> 00:25:33,760

I'm just yesterday there was an article

592

00:25:36,600 --> 00:25:34,750

in nature new

593

00:25:39,630 --> 00:25:36,610

use by professor who's been blogging

594

00:25:41,760 --> 00:25:39,640

about stem cells for a year and he was

595

00:25:44,040 --> 00:25:41,770

encouraging people now to get into the

596

00:25:46,020 --> 00:25:44,050

blogosphere and i think in these times

597

00:25:48,960 --> 00:25:46,030

as it seems to me there's quite a

598

00:25:50,730 --> 00:25:48,970

distrust of scientists emerging we have

599

00:25:53,700 --> 00:25:50,740

the climate denialists and then we have

600

00:25:55,710 --> 00:25:53,710

the you know greenpeace who went into

601  
00:25:57,840 --> 00:25:55,720  
siren we've been slickered their GM crop

602  
00:26:00,960 --> 00:25:57,850  
recently and it seems that there's this

603  
00:26:02,640 --> 00:26:00,970  
under sort of against bubbling under the

604  
00:26:05,100 --> 00:26:02,650  
surface people are distrusting

605  
00:26:06,750 --> 00:26:05,110  
government and scientists and i think we

606  
00:26:08,490 --> 00:26:06,760  
need to take responsibility for some of

607  
00:26:10,410 --> 00:26:08,500  
that and get out there and teach people

608  
00:26:13,020 --> 00:26:10,420  
about how science works and not to be

609  
00:26:14,940 --> 00:26:13,030  
scared of it and understand what we do

610  
00:26:18,090 --> 00:26:14,950  
in labs at nighttime you know in with

611  
00:26:21,210 --> 00:26:18,100  
perhaps and flood tides yeah I couldn't

612  
00:26:23,460 --> 00:26:21,220  
agree more but I think it's even more

613  
00:26:25,770 --> 00:26:23,470

persuasive than that I think there's a

614

00:26:31,020 --> 00:26:25,780

general retreat from reason in society

615

00:26:34,860 --> 00:26:31,030

and also the the media and the nature of

616

00:26:37,620 --> 00:26:34,870

information has changed dramatically you

617

00:26:39,330 --> 00:26:37,630

can't really rely on anything you read

618

00:26:42,600 --> 00:26:39,340

in the newspaper in Australia for

619

00:26:44,490 --> 00:26:42,610

instance on in the one substantial

620

00:26:46,380 --> 00:26:44,500

segments of the newspaper industry is

621

00:26:48,570 --> 00:26:46,390

actively campaigning against doing

622

00:26:51,120 --> 00:26:48,580

anything about climate change and they

623

00:26:53,820 --> 00:26:51,130

simply invent stuff quite frankly or

624

00:26:55,620 --> 00:26:53,830

don't report it so where do you get

625

00:26:58,440 --> 00:26:55,630

valid information so we've been

626  
00:27:00,420 --> 00:26:58,450  
struggling with this the new initiative

627  
00:27:02,490 --> 00:27:00,430  
that coming out of university of

628  
00:27:05,520 --> 00:27:02,500  
melbourne but involving many australian

629  
00:27:07,890 --> 00:27:05,530  
universities and increasingly involving

630  
00:27:11,490 --> 00:27:07,900  
north northern hemisphere universities

631  
00:27:15,210 --> 00:27:11,500  
ism is a an epic called the conversation

632  
00:27:17,910 --> 00:27:15,220  
oh yes a knot this is an online effort

633  
00:27:20,070 --> 00:27:17,920  
the articles are written by scientists

634  
00:27:22,190 --> 00:27:20,080  
and academics not just scientists people

635  
00:27:25,380 --> 00:27:22,200  
who are doing various other things in

636  
00:27:29,580 --> 00:27:25,390  
universities and then they're taken over

637  
00:27:31,470 --> 00:27:29,590  
by journalists who edit them and put

638  
00:27:34,560 --> 00:27:31,480

them in the language that's accessible

639

00:27:37,440 --> 00:27:34,570

to people who are non specialists and

640

00:27:39,180 --> 00:27:37,450

who are just intelligent interested

641

00:27:42,150 --> 00:27:39,190

people and I think that's a very good

642

00:27:44,190 --> 00:27:42,160

effort so basically if we want to get

643

00:27:46,310 --> 00:27:44,200

people to engage much more with science

644

00:27:47,810 --> 00:27:46,320

we have to do it I think through the

645

00:27:50,180 --> 00:27:47,820

electronic me

646

00:27:52,370 --> 00:27:50,190

the print media I think sort of

647

00:27:55,880 --> 00:27:52,380

basically becoming history fairly

648

00:27:58,640 --> 00:27:55,890

quickly and and and they're there in

649

00:28:01,250 --> 00:27:58,650

some cases just so unreliable that

650

00:28:03,950 --> 00:28:01,260

they're not useful no especially when

651  
00:28:07,280 --> 00:28:03,960  
they dominated by one particular you

652  
00:28:10,970 --> 00:28:07,290  
know news body which is the case well

653  
00:28:13,600 --> 00:28:10,980  
dude I take ten newspapers and one of

654  
00:28:18,320 --> 00:28:13,610  
them i think is becoming increasingly

655  
00:28:23,030 --> 00:28:18,330  
toxic I'm like every disease come into

656  
00:28:24,470 --> 00:28:23,040  
your house every day why I do it we

657  
00:28:26,150 --> 00:28:24,480  
won't mention any names and we'll get

658  
00:28:29,060 --> 00:28:26,160  
shut down by the unidentified the

659  
00:28:32,990 --> 00:28:29,070  
newspaper but they know who they are I

660  
00:28:34,400 --> 00:28:33,000  
do like you I think they didn't yeah so

661  
00:28:36,800 --> 00:28:34,410  
professor Dougherty you're giving a

662  
00:28:39,230 --> 00:28:36,810  
public lecture on Tuesday the second of

663  
00:28:41,240 --> 00:28:39,240

august in Canberra called killer viruses

664

00:28:46,700 --> 00:28:41,250

and killer t-cells that's free and is

665

00:28:48,230 --> 00:28:46,710

also live broadcast from 6pm thank you

666

00:28:50,690 --> 00:28:48,240

so much for taking the time to talk to

667

00:29:01,250 --> 00:28:50,700

us today I really appreciate it okay

668

00:29:11,240 --> 00:29:04,440

and now a message from the inside of

669

00:29:19,019 --> 00:29:15,620

sub HIPAA with merit and bending and

670

00:29:21,899 --> 00:29:19,029

from Norway i'm here at still here tam

671

00:29:23,669 --> 00:29:21,909

nine although not for long sadly yes

672

00:29:25,649 --> 00:29:23,679

I've got to get my bus in about four

673

00:29:27,149 --> 00:29:25,659

hours it's all too crazy but I'm here

674

00:29:30,919 --> 00:29:27,159

with these wonderful Norwegian people

675

00:29:33,690 --> 00:29:30,929

who were drinking heavily last night

676

00:29:37,590 --> 00:29:33,700

every time someone said Norway the table

677

00:29:48,470 --> 00:29:37,600

erupted I enjoyed a lot oh it was just

678

00:29:53,570 --> 00:29:51,950

Marty first time at ten uh well sort of

679

00:29:55,250 --> 00:29:53,580

I've been to both the ones that have

680

00:29:57,919 --> 00:29:55,260

been in London all right of course yeah

681

00:30:00,590 --> 00:29:57,929

and they were both wonderful and after

682

00:30:03,020 --> 00:30:00,600

the first one we were a bunch of people

683

00:30:04,970 --> 00:30:03,030

who got really engaged and wanted to do

684

00:30:06,530 --> 00:30:04,980

stuff so that's kind of where my real

685

00:30:09,100 --> 00:30:06,540

skeptical activist and started before

686

00:30:11,450 --> 00:30:09,110

that I was just reading blogs and

687

00:30:13,250 --> 00:30:11,460

thinking about writing a blog and that

688

00:30:15,230 --> 00:30:13,260

kind of thing but after that that was

689

00:30:17,750 --> 00:30:15,240

like a pivotal event we started doing a

690

00:30:20,090 --> 00:30:17,760

lot more stuff excellent and were you at

691

00:30:24,230 --> 00:30:20,100

ten in London too yeah I went with her

692

00:30:29,360 --> 00:30:24,240

both times and well like I didn't get

693

00:30:32,180 --> 00:30:29,370

quite that motivated but about almost a

694

00:30:34,760 --> 00:30:32,190

year ago I decided that we should really

695

00:30:37,159 --> 00:30:34,770

have a Norwegian podcasts because we

696

00:30:39,080 --> 00:30:37,169

didn't have a Norwegian podcasts so we

697

00:30:42,440 --> 00:30:39,090

started a pinch of salt and it's been

698

00:30:44,870 --> 00:30:42,450

very successful ever since that's great

699

00:30:46,340 --> 00:30:44,880

i love i like the name because you know

700

00:30:47,990 --> 00:30:46,350

the English expression takes something

701  
00:30:50,990 --> 00:30:48,000  
with a grain of salt I guess that's the

702  
00:30:52,549 --> 00:30:51,000  
same the same concept here yeah you know

703  
00:30:55,580 --> 00:30:52,559  
region though the term is a pinch of

704  
00:30:58,700 --> 00:30:55,590  
salt is all of that yeah and what topics

705  
00:31:02,060 --> 00:30:58,710  
do you cover ah we cover no reason news

706  
00:31:04,460 --> 00:31:02,070  
stories and regular skeptical topics

707  
00:31:07,390 --> 00:31:04,470  
such as the vaccination alternative

708  
00:31:11,260 --> 00:31:07,400  
medicine how to read a scientific study

709  
00:31:14,090 --> 00:31:11,270  
and we talked to various people about

710  
00:31:16,460 --> 00:31:14,100  
different areas of science and and that

711  
00:31:17,960 --> 00:31:16,470  
kind of thing if listeners are wondering

712  
00:31:19,789 --> 00:31:17,970  
and they're thinking I've heard that

713  
00:31:22,070 --> 00:31:19,799

voice before you're one of the two

714

00:31:23,480 --> 00:31:22,080

lovely Norwegian ladies who the ad i

715

00:31:28,940 --> 00:31:23,490

play occasionally where you hear the

716

00:31:38,870 --> 00:31:37,399

I am audit Maya Kristen Aviva tips addai

717

00:31:41,210 --> 00:31:38,880

some lotion lifted off the skeptic zone

718

00:31:43,190 --> 00:31:41,220

I'm skeptical marine Nadia the VINs not

719

00:31:44,899 --> 00:31:43,200

a blog gear or petrov a podcast of

720

00:31:46,789 --> 00:31:44,909

reading it escapes East rivers lakes on

721

00:31:48,740 --> 00:31:46,799

this door open ah central data skips

722

00:31:50,960 --> 00:31:48,750

astotel new or higher publicize the dips

723

00:31:52,879 --> 00:31:50,970

corner Chiclets and calendar / activated

724

00:31:54,320 --> 00:31:52,889

or link eternity research it escapes his

725

00:31:55,879 --> 00:31:54,330

blog in opportunity I'm lay of the disk

726

00:31:57,590 --> 00:31:55,889

attached ft / food amount so stick

727

00:32:06,560 --> 00:31:57,600

kingdom of their tawdry what's up skips

728

00:32:07,789 --> 00:32:06,570

is totes hello yes yes that's me i might

729

00:32:11,419 --> 00:32:07,799

not be recognizable right now because

730

00:32:13,250 --> 00:32:11,429

i'm a bit hoarse after yesterday but yes

731

00:32:15,740 --> 00:32:13,260

that is me yes it's me and Kristin

732

00:32:17,810 --> 00:32:15,750

Kristin was a wonderful honor we have to

733

00:32:19,399 --> 00:32:17,820

collect miss as well and and what a pity

734

00:32:21,740 --> 00:32:19,409

Kristin couldn't be here yeah i'm

735

00:32:24,019 --> 00:32:21,750

missing exactly we are because she was

736

00:32:26,480 --> 00:32:24,029

the lovely lady who was on the video for

737

00:32:29,149 --> 00:32:26,490

the 10 23 from oslo she was the main

738

00:32:30,440 --> 00:32:29,159

organizer of that event and also she and

739

00:32:32,240 --> 00:32:30,450

I and a couple of other people organized

740

00:32:34,909 --> 00:32:32,250

the region conference on science and

741

00:32:39,730 --> 00:32:34,919

skepticism called critical mass in

742

00:32:42,169 --> 00:32:39,740

October last year also so now you had a

743

00:32:44,539 --> 00:32:42,179

visit not so long ago from our dear

744

00:32:48,190 --> 00:32:44,549

friend james randi indeed and I've seen

745

00:32:51,529 --> 00:32:48,200

the video which is online of course of

746

00:32:53,600 --> 00:32:51,539

Randy's talk there and well it seemed to

747

00:32:56,419 --> 00:32:53,610

me that that was a huge success it was

748

00:32:59,000 --> 00:32:56,429

his visit and his talk yes it was a huge

749

00:33:00,409 --> 00:32:59,010

success first he was in Oslo where they

750

00:33:03,919 --> 00:33:00,419

had booked a venue of about a thousand

751  
00:33:06,019 --> 00:33:03,929  
people and 1500 people showed up so 500

752  
00:33:07,100 --> 00:33:06,029  
were turned away at the door then he

753  
00:33:08,570 --> 00:33:07,110  
moved on to a different city called

754  
00:33:10,879 --> 00:33:08,580  
Trondheim where the video is from and

755  
00:33:12,340 --> 00:33:10,889  
they had a venue of about 600 and I

756  
00:33:15,529 --> 00:33:12,350  
think about a thousand people showed up

757  
00:33:18,500 --> 00:33:15,539  
then in the final city that he went to

758  
00:33:20,330 --> 00:33:18,510  
in Bergen unfortunately there are very

759  
00:33:22,759 --> 00:33:20,340  
few large venues except for like

760  
00:33:25,820 --> 00:33:22,769  
extremely large so they were only able

761  
00:33:27,529 --> 00:33:25,830  
to get a venue about 300 people and I

762  
00:33:30,350 --> 00:33:27,539  
think they had to turn away that same

763  
00:33:32,090 --> 00:33:30,360

amount there too Wow so yeah that was

764

00:33:33,200 --> 00:33:32,100

extremely popular and it was a great

765

00:33:36,169 --> 00:33:33,210

success and he was in all the major

766

00:33:37,180 --> 00:33:36,179

newspapers and I think it really raised

767

00:33:38,800 --> 00:33:37,190

awareness

768

00:33:40,750 --> 00:33:38,810

because in a region humanist association

769

00:33:41,980 --> 00:33:40,760

is doing a campaign about critical

770

00:33:48,120 --> 00:33:41,990

thinking called no one likes to be

771

00:33:50,560 --> 00:33:48,130

fooled or in liquid oublie loot and

772

00:33:53,770 --> 00:33:50,570

Randy the whole Randy stunt was was a

773

00:33:56,590 --> 00:33:53,780

wonderful promoter of attention the

774

00:33:59,590 --> 00:33:56,600

video I'm glad somebody organized that

775

00:34:01,690 --> 00:33:59,600

video yes I i downloaded that i think i

776

00:34:03,220 --> 00:34:01,700

was telling you the other night I saw it

777

00:34:04,750 --> 00:34:03,230

online and I thought well I want to have

778

00:34:07,810 --> 00:34:04,760

this side download it and burn it to a

779

00:34:09,700 --> 00:34:07,820

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

780

00:34:13,870 --> 00:34:09,710

out there for free so how can people

781

00:34:16,330 --> 00:34:13,880

find them um probably by googling Randy

782

00:34:18,370 --> 00:34:16,340

talk and maybe Trondheim which is a

783

00:34:21,700 --> 00:34:18,380

large nor weed in the ocean region city

784

00:34:24,100 --> 00:34:21,710

more even brandy talk norway would ya we

785

00:34:26,320 --> 00:34:24,110

find it that's true probably video Randy

786

00:34:28,360 --> 00:34:26,330

talking away yep absolutely in fact what

787

00:34:30,370 --> 00:34:28,370

I'll do and this episode goes out in the

788

00:34:32,470 --> 00:34:30,380

show notes folks and in the newsletter

789

00:34:35,230 --> 00:34:32,480

i'll make sure i include that link yeah

790

00:34:37,990 --> 00:34:35,240

that's very good i have such fun in no

791

00:34:39,520 --> 00:34:38,000

white folks oh yes we do actually

792

00:34:42,910 --> 00:34:39,530

skepticism in norway has been on the

793

00:34:44,410 --> 00:34:42,920

rise since since about spring of 2009

794

00:34:47,230 --> 00:34:44,420

when the first skeptics in the pub

795

00:34:49,870 --> 00:34:47,240

meeting was launched and it was sort of

796

00:34:52,840 --> 00:34:49,880

low key for a while you know like 10

797

00:34:55,180 --> 00:34:52,850

people meeting up every time and after

798

00:34:57,900 --> 00:34:55,190

we started showing up naturally things

799

00:35:00,280 --> 00:34:57,910

got more interesting but actually after

800

00:35:01,960 --> 00:35:00,290

we started showing up a lot of other

801  
00:35:04,060 --> 00:35:01,970  
people also started showing up and and

802  
00:35:06,100 --> 00:35:04,070  
now generally were about 25 to 30 people

803  
00:35:08,760 --> 00:35:06,110  
at the ones and although which is pretty

804  
00:35:12,820 --> 00:35:08,770  
good for a very small city like Ozil and

805  
00:35:15,040 --> 00:35:12,830  
a lot of activism and good stuff has

806  
00:35:16,840 --> 00:35:15,050  
come of sort of the environment around

807  
00:35:20,410 --> 00:35:16,850  
that I mean there's a conference there's

808  
00:35:22,810 --> 00:35:20,420  
the podcast overall new blog several new

809  
00:35:24,820 --> 00:35:22,820  
blogs quite a lot of media attention as

810  
00:35:27,760 --> 00:35:24,830  
well actually yeah we've had reporters

811  
00:35:31,990 --> 00:35:27,770  
visit us a couple of times and we've

812  
00:35:34,330 --> 00:35:32,000  
been visited by George Rob yes yeah

813  
00:35:35,920 --> 00:35:34,340

that's right that was wonderful that was

814

00:35:38,800 --> 00:35:35,930

amazing and we also had the director of

815

00:35:41,980 --> 00:35:38,810

the movie sizzle a global warming comedy

816

00:35:43,150 --> 00:35:41,990

oh man Randy Olson um that was also

817

00:35:45,490 --> 00:35:43,160

great we showed his movie and he

818

00:35:46,630 --> 00:35:45,500

how to talk with us so we're trying to

819

00:35:49,750 --> 00:35:46,640

organize more events and stuff like that

820

00:35:51,430 --> 00:35:49,760

and also kind of as a result of all this

821

00:35:54,250 --> 00:35:51,440

and all the activism and buzzing that's

822

00:35:57,130 --> 00:35:54,260

going on the organization the Norwegian

823

00:35:59,710 --> 00:35:57,140

skeptics has also been revived they've

824

00:36:03,520 --> 00:35:59,720

had they haven't had a board meeting in

825

00:36:06,700 --> 00:36:03,530

about 15 years and we finally had one in

826

00:36:08,590 --> 00:36:06,710

March and elected a new board and lots

827

00:36:11,170 --> 00:36:08,600

of young faces yes that's a new faces

828

00:36:13,840 --> 00:36:11,180

was elected at the leader well that that

829

00:36:17,020 --> 00:36:13,850

would be me so I'm now the president of

830

00:36:19,960 --> 00:36:17,030

the Norwegian skeptics and thank you

831

00:36:21,910 --> 00:36:19,970

thank you congratulations thank you and

832

00:36:25,330 --> 00:36:21,920

kristin is also in the board yeah um

833

00:36:28,390 --> 00:36:25,340

we're actually I'm not in the board but

834

00:36:30,460 --> 00:36:28,400

we're very proud of the composition on

835

00:36:32,050 --> 00:36:30,470

makeup yeah because other nine people on

836

00:36:35,140 --> 00:36:32,060

the board four of them are women and

837

00:36:37,810 --> 00:36:35,150

right I believe eight of them are under

838

00:36:40,330 --> 00:36:37,820

35 or something yeah we're all I think

839

00:36:44,440 --> 00:36:40,340

we're all like around 40 or younger a

840

00:36:47,230 --> 00:36:44,450

lot of us are in our 20s and 30s she's a

841

00:36:51,400 --> 00:36:47,240

really good demographic yeah there's a

842

00:36:56,410 --> 00:36:51,410

lot of uh vibrant energy and good

843

00:36:58,630 --> 00:36:56,420

frequencies radiating from your energy

844

00:37:02,140 --> 00:36:58,640

there you can feel the energies yeah up

845

00:37:05,620 --> 00:37:02,150

and no it's the trolls yeah controls yes

846

00:37:09,670 --> 00:37:05,630

yes we can feel the troll spirits giving

847

00:37:11,350 --> 00:37:09,680

us power so what's what's the big next

848

00:37:13,810 --> 00:37:11,360

thing when you go home what will you be

849

00:37:15,580 --> 00:37:13,820

getting into the first thing is to make

850

00:37:18,690 --> 00:37:15,590

a new website for the Norwegian skeptics

851  
00:37:22,360 --> 00:37:18,700  
which really really needs a facelift and

852  
00:37:24,670 --> 00:37:22,370  
needs a bit more of a modern focus I

853  
00:37:27,250 --> 00:37:24,680  
would say it's been publishing academic

854  
00:37:29,710 --> 00:37:27,260  
articles for a very long time and I have

855  
00:37:31,690 --> 00:37:29,720  
their place but yeah that's like the

856  
00:37:33,400 --> 00:37:31,700  
main thing that you see there's a blog

857  
00:37:36,640 --> 00:37:33,410  
but it's very sort of hidden in the

858  
00:37:38,290 --> 00:37:36,650  
links so we're going to try and sort of

859  
00:37:39,660 --> 00:37:38,300  
make it a little bit more news is

860  
00:37:42,539 --> 00:37:39,670  
oriented and

861  
00:37:44,150 --> 00:37:42,549  
to sort of change the focus that the

862  
00:37:46,289 --> 00:37:44,160  
website which I think will be very good

863  
00:37:49,049 --> 00:37:46,299

also we've started working on our next

864

00:37:51,960 --> 00:37:49,059

conference which will probably not be in

865

00:37:54,120 --> 00:37:51,970

2011 but it will be in 2012 because as

866

00:37:57,390 --> 00:37:54,130

you are aware making a conference is a

867

00:38:00,059 --> 00:37:57,400

huge job takes time well if he goes

868

00:38:03,359 --> 00:38:00,069

ahead in 2012 what time of the year you

869

00:38:06,750 --> 00:38:03,369

think we're thinking spring 2012 which

870

00:38:08,670 --> 00:38:06,760

is what month we go Oh februari februari

871

00:38:12,510 --> 00:38:08,680

yea sorry I'm Australian it's all crazy

872

00:38:14,160 --> 00:38:12,520

yeah that is crazy actually it's uh beer

873

00:38:16,620 --> 00:38:14,170

is probably more like winter but we're

874

00:38:17,970 --> 00:38:16,630

gonna try and get it done at least at

875

00:38:20,280 --> 00:38:17,980

the latest you know like march but

876

00:38:22,589 --> 00:38:20,290

probably in February not a nice time of

877

00:38:25,289 --> 00:38:22,599

the in February noise nice time do you

878

00:38:27,450 --> 00:38:25,299

yes I'm not really really is really cold

879

00:38:30,809 --> 00:38:27,460

not really cool it's good for sledding

880

00:38:33,059 --> 00:38:30,819

and skiing so that's ok yeah i think i

881

00:38:34,440 --> 00:38:33,069

think if we if we do it if I brary will

882

00:38:37,770 --> 00:38:34,450

have to have like a speaker sledding

883

00:38:40,140 --> 00:38:37,780

evening well I hope that you keep us

884

00:38:44,270 --> 00:38:40,150

posted and me personally posted [h\_\_\h]

885

00:38:47,640 --> 00:38:44,280

because I would like to visit every

886

00:38:49,950 --> 00:38:47,650

skeptical Convention and roll the time

887

00:38:52,849 --> 00:38:49,960

of course I love these things I really

888

00:38:56,520 --> 00:38:52,859

do and in my own small way I hope I

889

00:38:59,910 --> 00:38:56,530

contribute to the fun and the success so

890

00:39:02,700 --> 00:38:59,920

if there's enough notice pneus is any

891

00:39:05,609 --> 00:39:02,710

hope I will make every effort keep that

892

00:39:08,309 --> 00:39:05,619

in mind come to Oslo that would be a

893

00:39:10,240 --> 00:39:08,319

nice though yes yes that is the easiest

894

00:39:12,890 --> 00:39:10,250

venue to organize things in

895

00:39:15,470 --> 00:39:12,900

I've been briefly to Sweden and I've

896

00:39:17,630 --> 00:39:15,480

been briefly to Denmark get it to Norway

897

00:39:20,270 --> 00:39:17,640

all right so it's gonna be next on the

898

00:39:28,100 --> 00:39:20,280

list yeah definitely you can't go back

899

00:39:31,010 --> 00:39:28,110

there until then I knew that it happens

900

00:39:33,080 --> 00:39:31,020

everywhere here folks when I go to

901  
00:39:37,490 --> 00:39:33,090  
Norway I'm going to get to a table and

902  
00:39:39,770 --> 00:39:37,500  
Australia well Norwegian skeptics with

903  
00:39:41,810 --> 00:39:39,780  
your pinch of salt I wish you every

904  
00:39:54,230 --> 00:39:41,820  
success and thank you very much thank

905  
00:39:56,030 --> 00:39:54,240  
you this is desiree shell a host of

906  
00:39:58,340 --> 00:39:56,040  
Canadian radio shows skeptically

907  
00:40:04,609 --> 00:39:58,350  
speaking in you're listening to the

908  
00:40:10,289 --> 00:40:07,640  
and i'm here at tam 9 in las vegas

909  
00:40:13,380 --> 00:40:10,299  
sitting around the corner from the main

910  
00:40:14,429 --> 00:40:13,390  
corridor where there's a lot of activity

911  
00:40:17,309 --> 00:40:14,439  
going on we're sort of hiding in a

912  
00:40:19,709 --> 00:40:17,319  
corner here I'm with Richard crabby leg

913  
00:40:22,289 --> 00:40:19,719

Saunders crabby leg Saunders that's me I

914

00:40:23,789 --> 00:40:22,299

haven't had my Krabby legs yet I know

915

00:40:25,829 --> 00:40:23,799

you have it Richard I know that you want

916

00:40:28,079 --> 00:40:25,839

to go straight after the speaker's

917

00:40:30,329 --> 00:40:28,089

reception this afternoon to have crappy

918

00:40:32,609 --> 00:40:30,339

legs don't you yes I've got money set

919

00:40:35,609 --> 00:40:32,619

aside for it I saw that you were showing

920

00:40:37,679 --> 00:40:35,619

me your crabby leg money so you this

921

00:40:39,900 --> 00:40:37,689

morning you did a panel you did a panel

922

00:40:41,400 --> 00:40:39,910

on getting things done skepticism

923

00:40:42,900 --> 00:40:41,410

getting things done unfortunately I

924

00:40:44,249 --> 00:40:42,910

wasn't there because i was preparing

925

00:40:45,900 --> 00:40:44,259

from our own panel and obviously our

926  
00:40:47,519 --> 00:40:45,910  
listeners most of Alice's weren't there

927  
00:40:49,380 --> 00:40:47,529  
yeah so tell me what was that about

928  
00:40:52,439 --> 00:40:49,390  
getting things done well they had a

929  
00:40:54,779 --> 00:40:52,449  
range of people on on the stage who in

930  
00:40:57,689 --> 00:40:54,789  
the opinion of the JREF I suppose had

931  
00:41:00,809 --> 00:40:57,699  
helped make a change in the past year

932  
00:41:03,749 --> 00:41:00,819  
and I was chosen for the work that I and

933  
00:41:06,299 --> 00:41:03,759  
we've all done on pal balance so indeed

934  
00:41:08,849 --> 00:41:06,309  
we had a bit of a chat about that and I

935  
00:41:11,099 --> 00:41:08,859  
had George Saba MC come out and I did

936  
00:41:13,199 --> 00:41:11,109  
the whole routine on George with a with

937  
00:41:14,609 --> 00:41:13,209  
a placebo band without a placebo been to

938  
00:41:18,089 --> 00:41:14,619

show the whole audience how that worked

939

00:41:21,089 --> 00:41:18,099

and that got a round of applause or

940

00:41:23,130 --> 00:41:21,099

applause sorry I'm scheduler yeah it's

941

00:41:25,949 --> 00:41:23,140

interesting because I've been talking to

942

00:41:27,390 --> 00:41:25,959

a few people here and of course I guess

943

00:41:29,549 --> 00:41:27,400

we take it for granted in Australia that

944

00:41:32,130 --> 00:41:29,559

most people in Australia know what

945

00:41:35,909 --> 00:41:32,140

happened with power balance there and

946

00:41:38,339 --> 00:41:35,919

that is that and that is that they went

947

00:41:41,249 --> 00:41:38,349

they went broke basically very recently

948

00:41:44,339 --> 00:41:41,259

but it's not everyone here knows that do

949

00:41:46,349 --> 00:41:44,349

they know and we still get surprises and

950

00:41:48,509 --> 00:41:46,359

applause when we tell them that power

951  
00:41:51,390 --> 00:41:48,519  
balance in Australia folded the company

952  
00:41:53,880 --> 00:41:51,400  
didn't work and that was largely due to

953  
00:41:56,039 --> 00:41:53,890  
skeptical active activism CEO mr. Jay

954  
00:41:58,679 --> 00:41:56,049  
later yeah because someone was tweeting

955  
00:42:00,719 --> 00:41:58,689  
during your demonstration they tweeted

956  
00:42:03,449 --> 00:42:00,729  
if you think what Richard Saunders did

957  
00:42:05,309 --> 00:42:03,459  
onstage was absurd i can tell you i saw

958  
00:42:08,039 --> 00:42:05,319  
it two days ago at the mall down on the

959  
00:42:09,809 --> 00:42:08,049  
street yeah so it's kind of it happens

960  
00:42:11,729 --> 00:42:09,819  
everywhere here doesn't it oh yeah yeah

961  
00:42:14,390 --> 00:42:11,739  
there's still other power balance is

962  
00:42:16,970 --> 00:42:14,400  
still on sale here the original and

963  
00:42:20,150 --> 00:42:16,980

not the best and all their clothes their

964

00:42:24,140 --> 00:42:20,160

cannon balance zoom or whatever hell

965

00:42:25,940 --> 00:42:24,150

Byron you yeah yeah and it's amazing to

966

00:42:28,130 --> 00:42:25,950

me that the australian government

967

00:42:29,960 --> 00:42:28,140

cracked down on this and the US

968

00:42:32,269 --> 00:42:29,970

government well they're lagging behind

969

00:42:34,099 --> 00:42:32,279

well we were we also got interviewed

970

00:42:36,650 --> 00:42:34,109

this morning by hg u and we were talking

971

00:42:39,680 --> 00:42:36,660

about the avn actually and how we've

972

00:42:42,349 --> 00:42:39,690

utilized through legal mechanisms

973

00:42:45,529 --> 00:42:42,359

government laws and regulatory our

974

00:42:47,539 --> 00:42:45,539

bodies to kind of to kind of hold them

975

00:42:49,490 --> 00:42:47,549

to account and we're really i think well

976  
00:42:52,400 --> 00:42:49,500  
based on what I've been hearing from

977  
00:42:54,380 --> 00:42:52,410  
people here to this weekend we're quite

978  
00:42:56,029 --> 00:42:54,390  
unique in that sense that we do in

979  
00:42:58,010 --> 00:42:56,039  
Australia we complain about a regulatory

980  
00:42:59,839 --> 00:42:58,020  
bodies but it seems like they are

981  
00:43:01,400 --> 00:42:59,849  
actually equipped to do something and

982  
00:43:03,799 --> 00:43:01,410  
that might not be the case here that

983  
00:43:07,069 --> 00:43:03,809  
might not be the case but also i always

984  
00:43:09,859 --> 00:43:07,079  
think we've got some very dedicated

985  
00:43:11,779 --> 00:43:09,869  
people working on our behalf or with

986  
00:43:14,269 --> 00:43:11,789  
this i should say like lifeguard the

987  
00:43:16,250 --> 00:43:14,279  
jelly bean lady Loretta Marin yeah and

988  
00:43:18,680 --> 00:43:16,260

of course ken harvey he made a complaint

989

00:43:19,910 --> 00:43:18,690

about how balanced the TGA and then

990

00:43:21,680 --> 00:43:19,920

there's you know the grassroots people

991

00:43:23,329 --> 00:43:21,690

like Chris Higgins for example who wrote

992

00:43:24,980 --> 00:43:23,339

letters to chemist warehouse d at the

993

00:43:26,059 --> 00:43:24,990

hot band removed you know there's a

994

00:43:28,279 --> 00:43:26,069

whole lot of people on a whole different

995

00:43:30,829 --> 00:43:28,289

level and I think we commented on this

996

00:43:33,140 --> 00:43:30,839

last year as well that the response that

997

00:43:34,789 --> 00:43:33,150

we get when we come to town from people

998

00:43:37,160 --> 00:43:34,799

here is that we seem to have a very

999

00:43:39,980 --> 00:43:37,170

effective grassroots in a bunch of

1000

00:43:42,170 --> 00:43:39,990

people in Australia we got good we've

1001

00:43:43,760 --> 00:43:42,180

got the runs on the board and a lot of

1002

00:43:47,210 --> 00:43:43,770

people appreciate that which is good

1003

00:43:49,039 --> 00:43:47,220

yeah yeah so Richard what you don't have

1004

00:43:51,589 --> 00:43:49,049

anything else to do this weekend do you

1005

00:43:54,049 --> 00:43:51,599

know more panels at all not officially

1006

00:43:56,000 --> 00:43:54,059

no are being interviewed momentarily by

1007

00:43:58,190 --> 00:43:56,010

someone from a college newspaper and

1008

00:43:59,720 --> 00:43:58,200

then I expect people wanted me to be

1009

00:44:01,339 --> 00:43:59,730

here or go there or do that you know

1010

00:44:02,690 --> 00:44:01,349

what it's like dr. AG yeah but you also

1011

00:44:05,510 --> 00:44:02,700

have to eat some crabby lakes this

1012

00:44:13,789 --> 00:44:05,520

afternoon thank you dr. Rachel thanks

1013

00:44:19,380 --> 00:44:16,709

hi this is brian dunning from sceptile

1014

00:44:21,359 --> 00:44:19,390

com the best way to share the benefits

1015

00:44:23,039 --> 00:44:21,369

of critical thinking and science with

1016

00:44:26,039 --> 00:44:23,049

someone who doesn't listen to podcasts

1017

00:44:28,019 --> 00:44:26,049

is to give them a book I invite you to

1018

00:44:30,359 --> 00:44:28,029

check out my newest book based on

1019

00:44:33,779 --> 00:44:30,369

selected episodes of The sceptile cast

1020

00:44:37,259 --> 00:44:33,789

skep tied three pirates pyramids and

1021

00:44:39,569 --> 00:44:37,269

papyrus 50 chapters contain something

1022

00:44:42,029 --> 00:44:39,579

for everyone questions you've always

1023

00:44:45,179 --> 00:44:42,039

wondered about and subject to intrigue

1024

00:44:47,849 --> 00:44:45,189

and challenge your friends pirates

1025

00:44:50,189 --> 00:44:47,859

pyramids and papyrus by Brian Dunning

1026  
00:44:52,289 --> 00:44:50,199  
with a foreword by Richard Saunders of

1027  
00:44:54,839 --> 00:44:52,299  
the Australian skeptics it's available

1028  
00:44:58,319 --> 00:44:54,849  
now from major online booksellers as a

1029  
00:45:01,289 --> 00:44:58,329  
paperback and as an e-book or get a

1030  
00:45:09,749 --> 00:45:01,299  
personalized copy from sceptile calm I'm

1031  
00:45:12,600 --> 00:45:09,759  
Brian Dunning from skept tide calm his my

1032  
00:45:15,540 --> 00:45:12,610  
not spooky action

1033  
00:45:18,840 --> 00:45:15,550  
at the distance

1034  
00:45:20,790 --> 00:45:18,850  
hello may I you you sound really good

1035  
00:45:22,620 --> 00:45:20,800  
i'm just reading up on that on the

1036  
00:45:25,020 --> 00:45:22,630  
complete history of mine are here which

1037  
00:45:28,190 --> 00:45:25,030  
is just fascinating i was the minister

1038  
00:45:30,720 --> 00:45:28,200

to disco during the Whitlam government I

1039

00:45:33,570 --> 00:45:30,730

like this the man club best described as

1040

00:45:35,820 --> 00:45:33,580

a food fight with a DJ on the phone I

1041

00:45:38,610 --> 00:45:35,830

have a man who is izzy's right behind

1042

00:45:40,020 --> 00:45:38,620

national Geographics bi-curious week now

1043

00:45:42,300 --> 00:45:40,030

this is a very interesting move on

1044

00:45:43,710 --> 00:45:42,310

national Geographics part Jabbar is it

1045

00:45:45,480 --> 00:45:43,720

funny may not as soon as I heard they

1046

00:45:47,580 --> 00:45:45,490

were curious my first thought was to put

1047

00:45:49,410 --> 00:45:47,590

a prefix of x on it but that's not the

1048

00:45:51,690 --> 00:45:49,420

case 13 hours a brand new programming

1049

00:45:53,520 --> 00:45:51,700

which as you would know my dad 13 hours

1050

00:45:55,050 --> 00:45:53,530

in an entire week of new programming on

1051

00:45:57,150 --> 00:45:55,060

pay TV it's just something that is

1052

00:45:59,310 --> 00:45:57,160

unheard of it is unheard of I mean like

1053

00:46:00,390 --> 00:45:59,320

the people at Discovery Channel probably

1054

00:46:02,010 --> 00:46:00,400

tearing their hair out because they've

1055

00:46:04,230 --> 00:46:02,020

only got 12 and a half they can't have

1056

00:46:06,510 --> 00:46:04,240

it did it top shark week what are we

1057

00:46:08,760 --> 00:46:06,520

gonna do shock fortnight Jabba look and

1058

00:46:10,980 --> 00:46:08,770

you I'm so envious of you you got to do

1059

00:46:12,390 --> 00:46:10,990

a little special called Jabba's curious

1060

00:46:14,940 --> 00:46:12,400

world in which you went out and spoke to

1061

00:46:17,370 --> 00:46:14,950

Australian people about the paranormal

1062

00:46:19,890 --> 00:46:17,380

yeah mainly not jobs but I'm that's fine

1063

00:46:21,840 --> 00:46:19,900

i was with kindred spirits there what is

1064

00:46:23,790 --> 00:46:21,850

it may not about people that are

1065

00:46:26,310 --> 00:46:23,800

interested in pyramids and hieroglyphics

1066

00:46:28,950 --> 00:46:26,320

and UFOs and ghosts that just seems

1067

00:46:31,380 --> 00:46:28,960

slightly unbalanced I think it's the

1068

00:46:33,150 --> 00:46:31,390

natural tendency to get intense about

1069

00:46:35,250 --> 00:46:33,160

stuff I mean you talk to people who are

1070

00:46:37,260 --> 00:46:35,260

involved in in science in any sort of

1071

00:46:38,550 --> 00:46:37,270

intense way and if you don't understand

1072

00:46:40,020 --> 00:46:38,560

what they're doing they can seem

1073

00:46:42,240 --> 00:46:40,030

unbalanced to you people that are fans

1074

00:46:43,740 --> 00:46:42,250

of Duran Duran might seem unbalanced

1075

00:46:46,770 --> 00:46:43,750

because they're very intense about that

1076

00:46:48,360 --> 00:46:46,780

if you don't share their view anyone can

1077

00:46:49,980 --> 00:46:48,370

seem unbalanced it's interesting you say

1078

00:46:52,110 --> 00:46:49,990

that because I'm a big fan of watching

1079

00:46:54,180 --> 00:46:52,120

on the couch on Foxtel which is a show

1080

00:46:56,640 --> 00:46:54,190

about AFL and I don't understand a great

1081

00:46:58,470 --> 00:46:56,650

deal about Ozzie rules 40 I do like all

1082

00:47:00,210 --> 00:46:58,480

of this and kill the same but i watch

1083

00:47:01,950 --> 00:47:00,220

the show know might these guys are mad

1084

00:47:03,960 --> 00:47:01,960

and you're exactly right it there's an

1085

00:47:05,130 --> 00:47:03,970

intensity about people that have fans of

1086

00:47:08,850 --> 00:47:05,140

stuff and I guess when you're a fan of

1087

00:47:11,580 --> 00:47:08,860

ghosts or UFOs that because they are al

1088

00:47:13,830 --> 00:47:11,590

you know or all but impossible to prove

1089

00:47:15,840 --> 00:47:13,840

their existence you know you come across

1090

00:47:17,340 --> 00:47:15,850

as quite mad on twitter I put out the

1091

00:47:18,870 --> 00:47:17,350

question any questions for java about

1092

00:47:20,820 --> 00:47:18,880

the show and brian dunning who is the

1093

00:47:22,440 --> 00:47:20,830

host of sceptile one of these skeptic

1094

00:47:24,210 --> 00:47:22,450

podcasts and he got a great question

1095

00:47:26,790 --> 00:47:24,220

here he wants to know how can the

1096

00:47:29,250 --> 00:47:26,800

average person prove the existence of

1097

00:47:32,670 --> 00:47:29,260

the paranormal to themselves

1098

00:47:35,070 --> 00:47:32,680

good question I you can't be if you

1099

00:47:36,750 --> 00:47:35,080

would like to try I guess that's all you

1100

00:47:39,390 --> 00:47:36,760

can do is to go and put yourself in

1101  
00:47:41,850 --> 00:47:39,400  
scenarios where your skepticism is

1102  
00:47:44,670 --> 00:47:41,860  
challenged and compromised for instance

1103  
00:47:47,040 --> 00:47:44,680  
in in the show we did a story about a

1104  
00:47:49,020 --> 00:47:47,050  
guy who believes there is a big cat

1105  
00:47:51,390 --> 00:47:49,030  
roaming the blue mountains west of

1106  
00:47:53,970 --> 00:47:51,400  
Sydney I saw that bit I saw that bit

1107  
00:47:56,700 --> 00:47:53,980  
there was actually a large Persian in

1108  
00:47:58,980 --> 00:47:56,710  
his backyard which he did not he missed

1109  
00:48:01,050 --> 00:47:58,990  
the large Persian standing about two

1110  
00:48:03,300 --> 00:48:01,060  
meters behind him oh it was a great

1111  
00:48:04,950 --> 00:48:03,310  
moment that our our producer and man on

1112  
00:48:07,140 --> 00:48:04,960  
the camera at the time Jeff seabury he

1113  
00:48:09,420 --> 00:48:07,150

said look over there there's a big cat

1114

00:48:11,040 --> 00:48:09,430

there was a giant cat in the backyard so

1115

00:48:13,470 --> 00:48:11,050

this is a Rex gilroy Jesus shows

1116

00:48:15,570 --> 00:48:13,480

preeminent cryptozoologist which is a

1117

00:48:17,750 --> 00:48:15,580

branch of science not recognized by

1118

00:48:20,790 --> 00:48:17,760

mainstream branches of science isn't it

1119

00:48:23,520 --> 00:48:20,800

cryptozoology I thought it was ooh ology

1120

00:48:26,730 --> 00:48:23,530

both its cryptozoology because the

1121

00:48:29,190 --> 00:48:26,740

second Oh is part of ology so at zoology

1122

00:48:31,410 --> 00:48:29,200

maybe 930 DH but then it's not about

1123

00:48:33,300 --> 00:48:31,420

zoos no it's not no I don't know what

1124

00:48:35,100 --> 00:48:33,310

it's about my dad he wrecks was an

1125

00:48:36,630 --> 00:48:35,110

amazing got to spend time with and I

1126

00:48:38,100 --> 00:48:36,640

really felt for him because at the end

1127

00:48:39,600 --> 00:48:38,110

of the shoot he said look thanks so much

1128

00:48:41,070 --> 00:48:39,610

for your time and a lot of people have

1129

00:48:42,630 --> 00:48:41,080

come and shot with me and I've got a

1130

00:48:43,860 --> 00:48:42,640

really good vibe off you guys a lot of

1131

00:48:45,510 --> 00:48:43,870

people come and shoot and they just

1132

00:48:47,520 --> 00:48:45,520

didn't make fun of me I thought well

1133

00:48:49,680 --> 00:48:47,530

he's pretty perceptive because he

1134

00:48:52,020 --> 00:48:49,690

understands that people could struggle

1135

00:48:53,670 --> 00:48:52,030

to take his his interest seriously he's

1136

00:48:55,050 --> 00:48:53,680

got poor Prince he's got peak near

1137

00:48:56,910 --> 00:48:55,060

skulls that he reckons are a million

1138

00:48:59,460 --> 00:48:56,920

years old like he was probably my fate

1139

00:49:01,710 --> 00:48:59,470

my favorite encounter and I was pretty

1140

00:49:03,390 --> 00:49:01,720

skeptical about about a lot of Rex's

1141

00:49:04,830 --> 00:49:03,400

findings but you know he believes the

1142

00:49:06,810 --> 00:49:04,840

dinosaurs have appeared in the wall of

1143

00:49:08,580 --> 00:49:06,820

our national park through time shifts

1144

00:49:10,710 --> 00:49:08,590

time shift hang on so we're talking

1145

00:49:12,450 --> 00:49:10,720

about there's a wormhole of some sort

1146

00:49:14,220 --> 00:49:12,460

pretty much why these time shifts will

1147

00:49:16,080 --> 00:49:14,230

come and go and a dinosaur like a

1148

00:49:17,970 --> 00:49:16,090

helicopter pilot was flying over he

1149

00:49:19,860 --> 00:49:17,980

looked down and there was Jurassic Park

1150

00:49:21,660 --> 00:49:19,870

have any flu background and it all

1151

00:49:24,420 --> 00:49:21,670

disappears I was just your shift into in

1152

00:49:26,250 --> 00:49:24,430

the fabric of time that is very cool I

1153

00:49:27,810 --> 00:49:26,260

haven't heard that I mean just awesome

1154

00:49:29,880 --> 00:49:27,820

like you just go cares if it's true or

1155

00:49:31,620 --> 00:49:29,890

not that's a great story Jabbar it's

1156

00:49:33,240 --> 00:49:31,630

almost in the naming is show the way

1157

00:49:34,680 --> 00:49:33,250

that you interview because people ask me

1158

00:49:36,330 --> 00:49:34,690

like on this show you know they go

1159

00:49:38,220 --> 00:49:36,340

you're talking to a person and what they

1160

00:49:40,320 --> 00:49:38,230

were saying made no sense but you've

1161

00:49:42,330 --> 00:49:40,330

just basically got to be curious and ask

1162

00:49:43,210 --> 00:49:42,340

them what the evidence is and let them

1163

00:49:45,640 --> 00:49:43,220

talk to you that's all

1164

00:49:47,470 --> 00:49:45,650

going to do that's my favorite meteor I

1165

00:49:49,150 --> 00:49:47,480

suppose and it's something that you know

1166

00:49:51,910 --> 00:49:49,160

you and I may be a part of a generation

1167

00:49:53,950 --> 00:49:51,920

of people that like to give people the

1168

00:49:56,140 --> 00:49:53,960

forum to air their views unless the

1169

00:49:57,700 --> 00:49:56,150

particularly discriminatory or offensive

1170

00:49:58,810 --> 00:49:57,710

then you're what are you gonna do you're

1171

00:50:01,510 --> 00:49:58,820

gonna let people go you're going to let

1172

00:50:04,000 --> 00:50:01,520

people air their opinions about you know

1173

00:50:07,000 --> 00:50:04,010

Duran Duran or us photos why not it's

1174

00:50:08,680 --> 00:50:07,010

not my role to be the arbiter of their

1175

00:50:10,420 --> 00:50:08,690

opinion anyway because I don't have all

1176

00:50:12,370 --> 00:50:10,430

the information here let the listener

1177

00:50:14,290 --> 00:50:12,380

decide and that's the way it goes and

1178

00:50:16,540 --> 00:50:14,300

just don't say all this person is under

1179

00:50:17,980 --> 00:50:16,550

present right just say here's a person

1180

00:50:20,020 --> 00:50:17,990

with this belief let's have a listen

1181

00:50:21,640 --> 00:50:20,030

these people are there they've got their

1182

00:50:23,230 --> 00:50:21,650

interests and it's nice to help them

1183

00:50:24,430 --> 00:50:23,240

showcase it to the world I'm going to go

1184

00:50:26,080 --> 00:50:24,440

through a few of the things that was

1185

00:50:28,000 --> 00:50:26,090

covered in the show UFOs who did you

1186

00:50:30,820 --> 00:50:28,010

speak to Australian about that this

1187

00:50:32,400 --> 00:50:30,830

one's really interesting in 1966 200

1188

00:50:36,040 --> 00:50:32,410

students at Westall Secondary College

1189

00:50:38,410 --> 00:50:36,050

witnessed three shiny silver discs to

1190

00:50:40,870 --> 00:50:38,420

send on to the school level just before

1191

00:50:43,450 --> 00:50:40,880

recess and and fly off to a nearby wood

1192

00:50:45,310 --> 00:50:43,460

that's known as The Grange apparently

1193

00:50:46,810 --> 00:50:45,320

the military turned up the children were

1194

00:50:49,390 --> 00:50:46,820

warned never to speak about what they

1195

00:50:51,820 --> 00:50:49,400

didn't see 40 years later a documentary

1196

00:50:53,829 --> 00:50:51,830

was made so westall 66 is worth googling

1197

00:50:55,570 --> 00:50:53,839

if you're into UFOs a lot of us enjoyed

1198

00:50:57,490 --> 00:50:55,580

that when it was on the sci-fi channel i

1199

00:50:59,200 --> 00:50:57,500

intervene early interview the director

1200

00:51:00,640 --> 00:50:59,210

and you spoke to some of those people

1201  
00:51:02,950 --> 00:51:00,650  
that were featured in that documentary

1202  
00:51:05,320 --> 00:51:02,960  
and the traditional view is that was

1203  
00:51:07,180 --> 00:51:05,330  
either a mass hallucination of some sort

1204  
00:51:09,640 --> 00:51:07,190  
or the people have recreated the memory

1205  
00:51:11,230 --> 00:51:09,650  
in the time since then what do you think

1206  
00:51:13,060 --> 00:51:11,240  
as you spoke to the people the people

1207  
00:51:14,890 --> 00:51:13,070  
that actually saw something as children

1208  
00:51:16,900 --> 00:51:14,900  
that morning well the two options you've

1209  
00:51:18,970 --> 00:51:16,910  
raised there are definitely you know

1210  
00:51:20,859 --> 00:51:18,980  
options you know another option is it

1211  
00:51:23,800 --> 00:51:20,869  
actually happened and these people just

1212  
00:51:26,020 --> 00:51:23,810  
seem so normal just like suburban

1213  
00:51:27,760 --> 00:51:26,030

Australians that I went well maybe it

1214

00:51:29,320 --> 00:51:27,770

happened the people want happy to talk

1215

00:51:31,030 --> 00:51:29,330

to you yeah absolutely i mean they've

1216

00:51:32,400 --> 00:51:31,040

sat on this thing for 40 years because

1217

00:51:34,720 --> 00:51:32,410

they were scared of being ridiculed

1218

00:51:36,760 --> 00:51:34,730

follow their stories out in the open and

1219

00:51:38,650 --> 00:51:36,770

people are interested again the other

1220

00:51:40,359 --> 00:51:38,660

option for that one is some sort of

1221

00:51:42,460 --> 00:51:40,369

experimental drone aircraft what do you

1222

00:51:43,870 --> 00:51:42,470

think about that one yeah absolutely we

1223

00:51:45,609 --> 00:51:43,880

think happen to me last night mon roi

1224

00:51:47,440 --> 00:51:45,619

the handle a weird thing happens to you

1225

00:51:49,480 --> 00:51:47,450

every night jammer because we have this

1226

00:51:51,460 --> 00:51:49,490

imaginative fictional thing that you're

1227

00:51:53,140 --> 00:51:51,470

like you know Marilyn Manson or Alice

1228

00:51:55,450 --> 00:51:53,150

Cooper and you've got this wild life at

1229

00:51:57,070 --> 00:51:55,460

night so you should say it may not yet

1230

00:51:59,260 --> 00:51:57,080

another weird thing happened to me

1231

00:52:00,910 --> 00:51:59,270

last night so started again Java it may

1232

00:52:02,950 --> 00:52:00,920

not yet another weird thing happened to

1233

00:52:06,040 --> 00:52:02,960

me last night 1 30 this morning in fact

1234

00:52:08,140 --> 00:52:06,050

my wife and I woken by a huge fan kind

1235

00:52:09,940 --> 00:52:08,150

of noise and i'm pretty sure an alien

1236

00:52:11,680 --> 00:52:09,950

spacecraft was landing on my roof what

1237

00:52:14,320 --> 00:52:11,690

was really strange about it was that all

1238

00:52:16,270 --> 00:52:14,330

night I've been watching UFO tacos on

1239

00:52:18,280 --> 00:52:16,280

that gia and I'd also downloaded the

1240

00:52:19,840 --> 00:52:18,290

wallpaper of the new cowboys and aliens

1241

00:52:21,700 --> 00:52:19,850

movie and I thought okay I'm sending

1242

00:52:25,030 --> 00:52:21,710

them signals but I'm interested what did

1243

00:52:27,250 --> 00:52:25,040

you think of the UK UFO documentary that

1244

00:52:28,810 --> 00:52:27,260

was on on Monday night what do you think

1245

00:52:30,520 --> 00:52:28,820

of that but because there was some stuff

1246

00:52:32,410 --> 00:52:30,530

from the Second World War there was some

1247

00:52:34,240 --> 00:52:32,420

more recent stuff there was the Welsh

1248

00:52:35,380 --> 00:52:34,250

Roswell which I thought is definitely a

1249

00:52:37,930 --> 00:52:35,390

Torchwood kind of thing what do you

1250

00:52:39,850 --> 00:52:37,940

think look I loved it because you know

1251  
00:52:41,740 --> 00:52:39,860  
in the middle of a world war and your

1252  
00:52:43,510 --> 00:52:41,750  
Winston Churchill there he's being

1253  
00:52:45,190 --> 00:52:43,520  
briefed on these reports and everyone

1254  
00:52:48,940 --> 00:52:45,200  
know that Winston was a bit wacky on the

1255  
00:52:50,740 --> 00:52:48,950  
speed to thank you you can I mean I

1256  
00:52:52,210 --> 00:52:50,750  
would love to see you know a dolphin

1257  
00:52:53,860 --> 00:52:52,220  
Winston you know slug it out

1258  
00:52:55,660 --> 00:52:53,870  
head-to-head man oh man style you know

1259  
00:52:58,180 --> 00:52:55,670  
what it was I would recommend the

1260  
00:53:00,850 --> 00:52:58,190  
documentary series altered statesman and

1261  
00:53:03,220 --> 00:53:00,860  
it does mention that Winston liked a bit

1262  
00:53:05,320 --> 00:53:03,230  
of a a as well as a tipple he didn't

1263  
00:53:07,980 --> 00:53:05,330

enjoy like bit of the Benzedrine there

1264

00:53:10,630 --> 00:53:07,990

brings him on the youtube series of the

1265

00:53:12,490 --> 00:53:10,640

historic rap battles these two rappers

1266

00:53:14,470 --> 00:53:12,500

dressed up as historical figures and

1267

00:53:22,769 --> 00:53:14,480

kind of try and slay each other Chris

1268

00:53:28,059 --> 00:53:25,299

apply my battle theory minds are

1269

00:53:31,539 --> 00:53:28,069

relatively long so take a seat speed o

1270

00:53:33,160 --> 00:53:31,549

tu cruncher on what everyone go there

1271

00:53:34,809 --> 00:53:33,170

right now Einstein vessels Hawking

1272

00:53:37,569 --> 00:53:34,819

that's our audience you got there back

1273

00:53:39,609 --> 00:53:37,579

to the the ufos Second World War what do

1274

00:53:40,900 --> 00:53:39,619

you reckon the food fighters what you're

1275

00:53:42,490 --> 00:53:40,910

saying with West or the idea of

1276  
00:53:44,319 --> 00:53:42,500  
experimental craft I mean you can only

1277  
00:53:46,299 --> 00:53:44,329  
imagine what type of things you know

1278  
00:53:48,849 --> 00:53:46,309  
what boundaries were being pushed in the

1279  
00:53:50,859 --> 00:53:48,859  
40s I dare say they were all types of

1280  
00:53:53,260 --> 00:53:50,869  
experimental craft and that's probably

1281  
00:53:55,660 --> 00:53:53,270  
the most likely the notion that with the

1282  
00:54:01,000 --> 00:53:55,670  
atomic bomb being tested and detonated

1283  
00:54:02,950 --> 00:54:01,010  
in her oshima 1945 aliens came in 1947

1284  
00:54:04,210 --> 00:54:02,960  
because they saw the signal and they

1285  
00:54:05,859 --> 00:54:04,220  
went I would go and have a look at what

1286  
00:54:07,150 --> 00:54:05,869  
that is but one of the scientists symbol

1287  
00:54:08,829 --> 00:54:07,160  
that would mean that they live one

1288  
00:54:10,240 --> 00:54:08,839

light-year away which is too close

1289

00:54:11,769 --> 00:54:10,250

because there are no stars a lot you're

1290

00:54:13,390 --> 00:54:11,779

away allow you to reach them and a lot

1291

00:54:15,210 --> 00:54:13,400

here to get here well as where the

1292

00:54:18,250 --> 00:54:15,220

wormholes might come up again Jabbar

1293

00:54:19,809 --> 00:54:18,260

babies dinosaurs piloting the space car

1294

00:54:21,700 --> 00:54:19,819

it's a bit like Star Trek next

1295

00:54:24,160 --> 00:54:21,710

generation when you got a problem invoke

1296

00:54:25,750 --> 00:54:24,170

the tachyons I detect a key on radiation

1297

00:54:28,690 --> 00:54:25,760

which means someone's from another time

1298

00:54:30,789 --> 00:54:28,700

zone and away you go new plot it's it's

1299

00:54:32,079 --> 00:54:30,799

interesting all of this paranormal stuff

1300

00:54:33,789 --> 00:54:32,089

there needs to be an element of

1301

00:54:35,829 --> 00:54:33,799

convenience to it like the Loch Ness

1302

00:54:37,750 --> 00:54:35,839

monster the abominable snowman any of

1303

00:54:39,549 --> 00:54:37,760

this stuff you need to have a convenient

1304

00:54:40,480 --> 00:54:39,559

well of course goes to be sure that I

1305

00:54:41,980 --> 00:54:40,490

want to be on camera well that's

1306

00:54:43,809 --> 00:54:41,990

convenient is underwater you you know

1307

00:54:46,180 --> 00:54:43,819

UFOs are unidentified by the definition

1308

00:54:48,519 --> 00:54:46,190

that's convenient some of the doc ozar

1309

00:54:50,980 --> 00:54:48,529

though I'm all supposed based on fact

1310

00:54:52,750 --> 00:54:50,990

did you do any EVP while you're out in

1311

00:54:55,390 --> 00:54:52,760

the field electronic voice phenomenon

1312

00:54:57,579 --> 00:54:55,400

did you try that out no we did use am an

1313

00:55:01,799 --> 00:54:57,589

EMF which I thought was unbelievable no

1314

00:55:09,720 --> 00:55:01,809

no I saw her again can you drop in

1315

00:55:14,370 --> 00:55:13,170

justed debe everybody wants that on

1316

00:55:15,960 --> 00:55:14,380

whenever we do a thing about the

1317

00:55:17,520 --> 00:55:15,970

paranormal run one said in that launched

1318

00:55:19,140 --> 00:55:17,530

the young one because it was an env show

1319

00:55:20,640 --> 00:55:19,150

and by the way he he couldn't afford

1320

00:55:22,560 --> 00:55:20,650

that for the theme he wanted it

1321

00:55:24,060 --> 00:55:22,570

copyright was too much who cares about

1322

00:55:26,190 --> 00:55:24,070

that song anymore just let him have it

1323

00:55:28,740 --> 00:55:26,200

I'm sure the guy who wrote it would feel

1324

00:55:30,570 --> 00:55:28,750

the same way jaben but you had an EMR

1325

00:55:32,220 --> 00:55:30,580

meter which would kind of go off if

1326

00:55:35,490 --> 00:55:32,230

there was some electrical wiring around

1327

00:55:38,220 --> 00:55:35,500

like maybe a light bulb microphone pack

1328

00:55:40,380 --> 00:55:38,230

that we might have films with a wireless

1329

00:55:42,000 --> 00:55:40,390

microphone pack yet that would emit some

1330

00:55:45,060 --> 00:55:42,010

sort of VM is consuming that's what it

1331

00:55:46,830 --> 00:55:45,070

does finally the that kept loading up at

1332

00:55:48,090 --> 00:55:46,840

the quarantine station the greatest

1333

00:55:49,500 --> 00:55:48,100

moment that happened there was that we

1334

00:55:50,940 --> 00:55:49,510

were in the gravediggers cottage we were

1335

00:55:53,820 --> 00:55:50,950

trying to contact the gravediggers and

1336

00:55:55,080 --> 00:55:53,830

one of the internal doors slammed and I

1337

00:55:57,330 --> 00:55:55,090

kind of looked at camera know what that

1338

00:55:59,040 --> 00:55:57,340

was either a ghost or the breeze does

1339

00:56:01,500 --> 00:55:59,050

coming through here quite strongly so

1340

00:56:03,630 --> 00:56:01,510

you know I just seen it spun with our

1341

00:56:05,070 --> 00:56:03,640

minds some of the great horror movies of

1342

00:56:06,660 --> 00:56:05,080

what you don't see where would you

1343

00:56:08,460 --> 00:56:06,670

suggest they go because you've been to

1344

00:56:09,660 --> 00:56:08,470

these places in Australia now we've got

1345

00:56:11,310 --> 00:56:09,670

a whole bunch of skip existing where

1346

00:56:12,930 --> 00:56:11,320

some where they should go and just have

1347

00:56:15,090 --> 00:56:12,940

a good look around because you found it

1348

00:56:17,250 --> 00:56:15,100

curious and interesting well Maitland

1349

00:56:19,170 --> 00:56:17,260

Giles a good one you know pretty sure

1350

00:56:20,609 --> 00:56:19,180

that it goes to is there I think if

1351

00:56:22,580 --> 00:56:20,619

you're interested in this kind of thing

1352

00:56:24,750 --> 00:56:22,590

you may as well go and experience

1353

00:56:26,640 --> 00:56:24,760

environments where other people have

1354

00:56:28,740 --> 00:56:26,650

witnessed something paranormal social in

1355

00:56:30,810 --> 00:56:28,750

the UFOs may be gonna do a you know

1356

00:56:32,760 --> 00:56:30,820

drive drive out to Broken Hill and see

1357

00:56:34,050 --> 00:56:32,770

if you can see them in men at the end of

1358

00:56:36,150 --> 00:56:34,060

the day it's just another kind of

1359

00:56:37,920 --> 00:56:36,160

interesting it's more interesting than

1360

00:56:39,540 --> 00:56:37,930

the Financial Times that's what I find

1361

00:56:41,730 --> 00:56:39,550

what documentary has been your favorite

1362

00:56:44,070 --> 00:56:41,740

this week that you've seen I'd have to

1363

00:56:46,410 --> 00:56:44,080

say Roswell because the fact that these

1364

00:56:50,040 --> 00:56:46,420

people are hanging on to this conspiracy

1365

00:56:53,010 --> 00:56:50,050

that the government has kept secret for

1366

00:56:54,599 --> 00:56:53,020

70 years an alien spacecraft crashing

1367

00:56:57,330 --> 00:56:54,609

and the collection of bodies and stuff

1368

00:56:59,190 --> 00:56:57,340

it's just astounding this the people

1369

00:57:01,349 --> 00:56:59,200

won't let this go that you know whole

1370

00:57:03,090 --> 00:57:01,359

town now the entire economy is based on

1371

00:57:05,099 --> 00:57:03,100

being the UFO capital of the world is

1372

00:57:07,200 --> 00:57:05,109

there one conspiracy theory that you

1373

00:57:08,550 --> 00:57:07,210

kind of lean towards or is your favorite

1374

00:57:10,320 --> 00:57:08,560

I mean we've seen jesse ventura's

1375

00:57:12,120 --> 00:57:10,330

conspiracy theory there in the history

1376

00:57:13,920 --> 00:57:12,130

channel and that's been ripping it out

1377

00:57:16,530 --> 00:57:13,930

there is there one that warmed you up I

1378

00:57:18,120 --> 00:57:16,540

heard one recently which I I know

1379

00:57:19,770 --> 00:57:18,130

nothing about whether it's true or not

1380

00:57:21,810 --> 00:57:19,780

but you might know something on this

1381

00:57:22,769 --> 00:57:21,820

that the carbon tax is basically

1382

00:57:25,349 --> 00:57:22,779

something that was dry

1383

00:57:27,179 --> 00:57:25,359

up by macho and she was seeking to

1384

00:57:29,009 --> 00:57:27,189

discredit the coal miners when they were

1385

00:57:30,899 --> 00:57:29,019

striking in the hopes of getting people

1386

00:57:33,469 --> 00:57:30,909

more interested in nuclear power and she

1387

00:57:36,870 --> 00:57:33,479

wants make coal seam a really dirty

1388

00:57:39,539 --> 00:57:36,880

method of creating energy and the idea

1389

00:57:40,829 --> 00:57:39,549

of carbon pollution was born and it's

1390

00:57:42,929 --> 00:57:40,839

carried on from so I think that's an

1391

00:57:44,880 --> 00:57:42,939

amazing theory whether it's true whether

1392

00:57:47,099 --> 00:57:44,890

you'd ever get to the bottom of that is

1393

00:57:48,659 --> 00:57:47,109

another story well you just added yet

1394

00:57:50,849 --> 00:57:48,669

another level to the carbon tax

1395

00:57:53,939 --> 00:57:50,859

conspiracy theory on you their jabber we

1396

00:57:55,829 --> 00:57:53,949

needed that just another level people

1397

00:57:57,209 --> 00:57:55,839

love a good tax jabber thanks very much

1398

00:57:58,769 --> 00:57:57,219

for your time and next time something's

1399

00:58:00,929 --> 00:57:58,779

paranormals happening are you the go-to

1400

00:58:02,909 --> 00:58:00,939

guy should you be the go-to guy you now

1401

00:58:05,189 --> 00:58:02,919

the paranormal spokesman for the

1402

00:58:08,609 --> 00:58:05,199

everyday man I'm the Leonard Nimoy of

1403

00:58:11,099 --> 00:58:08,619

Australia hey could I be a shatner does

1404

00:58:36,020 --> 00:58:11,109

your uncle with poetry live long and

1405

00:58:41,760 --> 00:58:39,210

thank you once again to listening to the

1406

00:58:43,140 --> 00:58:41,770

skeptic zonin thank you very much to

1407

00:58:45,660 --> 00:58:43,150

those people who have been chipping in

1408

00:58:48,450 --> 00:58:45,670

lately with some donations and weekly

1409

00:58:50,880 --> 00:58:48,460

contributions of less than a dollar much

1410

00:58:52,950 --> 00:58:50,890

appreciated very much appreciated and

1411

00:58:55,800 --> 00:58:52,960

that money is going to go continue to go

1412

00:58:57,960 --> 00:58:55,810

to the upkeep and the production of the

1413

00:58:59,490 --> 00:58:57,970

skeptic zone this week in the free

1414

00:59:01,200 --> 00:58:59,500

newsletter which accompanies every

1415

00:59:05,760 --> 00:59:01,210

episode of the skeptic zone and you can

1416

00:59:09,150 --> 00:59:05,770

subscribe at [www.skeptics on TV](http://www.skepticsontv.com) it's the

1417

00:59:11,760 --> 00:59:09,160

video link to maynard Maynard's report

1418

00:59:14,370 --> 00:59:11,770

video report from supernova science

1419

00:59:16,290 --> 00:59:14,380

fiction festival in Sydney and that's

1420

00:59:19,260 --> 00:59:16,300

for you to enjoy on next week's show

1421

00:59:22,140 --> 00:59:19,270

some more bits and pieces from Tam Las

1422

00:59:24,150 --> 00:59:22,150

Vegas but until then this is Richard

1423

00:59:30,270 --> 00:59:24,160

Saunders signing off from Sydney

1424

00:59:34,980 --> 00:59:30,280

Australia you've been listening to the

1425

00:59:38,820 --> 00:59:34,990

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