

1
00:00:05,940 --> 00:00:13,679
welcome to the skeptic zone the podcast

2
00:00:09,099 --> 00:00:13,679
from Australia for science and reason

3
00:00:20,559 --> 00:00:29,219
oh and welcome to the skeptics own

4
00:00:24,879 --> 00:00:33,250
episode number 293 for the first of June

5
00:00:29,219 --> 00:00:35,769
2014 another month another month goes by

6
00:00:33,250 --> 00:00:37,659
the first of June richardsaunders here

7
00:00:35,770 --> 00:00:41,350
with you from Sydney Australia trying a

8
00:00:37,659 --> 00:00:45,609
new system this week for recording this

9
00:00:41,350 --> 00:00:47,739
intro I've got a really really nice

10
00:00:45,609 --> 00:00:50,018
sennheiser microphone and i've had for a

11
00:00:47,738 --> 00:00:52,419
while that I used to use in making

12
00:00:50,018 --> 00:00:54,399
videos which I've retrieved from the

13
00:00:52,420 --> 00:00:56,439
cupboard hooked it up to my zoom

14
00:00:54,399 --> 00:00:58,179
microphone which I normally used to do

15
00:00:56,439 --> 00:01:01,838
the intros I'm standing now in the

16
00:00:58,179 --> 00:01:06,810
middle of Maya lounge dining room with

17
00:01:01,838 --> 00:01:12,090
the microphone on a large cat post and

18
00:01:06,810 --> 00:01:16,990
then sort of sitting inside a big old

19
00:01:12,090 --> 00:01:20,379
cup yeah and I'm standing here with my

20
00:01:16,989 --> 00:01:24,399
laptop in my arm so I can read my notes

21
00:01:20,379 --> 00:01:26,170
visualize that visualize that or you

22
00:01:24,400 --> 00:01:29,020
don't have to visualize that I mean you

23
00:01:26,170 --> 00:01:30,609
know if you don't want to I think I

24
00:01:29,019 --> 00:01:33,578
think I better tell you what's coming up

25
00:01:30,608 --> 00:01:35,679
on this week's show more from Iran sir

26
00:01:33,578 --> 00:01:38,318
given his recent trip to QED in

27
00:01:35,679 --> 00:01:42,189
Manchester question explore discover one

28
00:01:38,319 --> 00:01:44,920
of the premier skeptical scientific sort

29

00:01:42,188 --> 00:01:47,978
of reason conventions in the world I

30
00:01:44,920 --> 00:01:51,069
must say this week Ron chats to Nate

31
00:01:47,978 --> 00:01:53,530
Phelps now here's an interesting man

32
00:01:51,069 --> 00:01:56,379
he's the son of fred phelps the late

33
00:01:53,530 --> 00:02:00,728
fred phelps from the Westboro Baptist

34
00:01:56,379 --> 00:02:04,208
Church the people who still as far as I

35
00:02:00,728 --> 00:02:05,950
know protest things god hates signs

36
00:02:04,209 --> 00:02:08,200
you've probably seen those on the news

37
00:02:05,950 --> 00:02:10,360
and on the internet god hates this God

38
00:02:08,199 --> 00:02:13,419
hates that so Nate Phelps the son of

39
00:02:10,360 --> 00:02:17,110
fred phelps lift that whole religious

40
00:02:13,419 --> 00:02:19,329
seen quite some time ago and i think

41
00:02:17,110 --> 00:02:21,819
you'll find this interview very

42
00:02:19,330 --> 00:02:23,230
interesting indeed to find out what it

43
00:02:21,818 --> 00:02:24,669

was like from his point of view from

44

00:02:23,229 --> 00:02:26,889

Nate's point of view growing up in this

45

00:02:24,669 --> 00:02:29,829

sort of environment and also we find out

46

00:02:26,889 --> 00:02:31,298

what he's doing now after that it's a

47

00:02:29,830 --> 00:02:33,760

wig in designs from our good friends at

48

00:02:31,299 --> 00:02:36,790

the Royal Institution of Australia ww

49

00:02:33,759 --> 00:02:39,310

you are I aus der dog today you and for

50

00:02:36,789 --> 00:02:41,560

all those people who went to the science

51

00:02:39,310 --> 00:02:43,840

of Doctor Who which was traveling around

52

00:02:41,560 --> 00:02:47,019

the country I'm sure you enjoyed it as

53

00:02:43,840 --> 00:02:49,810

much as I do thank you are IRS and BBC

54

00:02:47,019 --> 00:02:52,629

then after that I travel up to the Blue

55

00:02:49,810 --> 00:02:55,090

Mountains just west of Sydney for the

56

00:02:52,628 --> 00:02:58,840

day to do some filming for the

57

00:02:55,090 --> 00:03:01,030

vaccination Chronicles and thank you Joe

58
00:02:58,840 --> 00:03:04,719
alabaster a new report agile a bust of

59
00:03:01,030 --> 00:03:07,419
helping me up on the day being behind

60
00:03:04,719 --> 00:03:11,109
the scenes on the camera helping me with

61
00:03:07,419 --> 00:03:13,238
the script and thank you too Peter

62
00:03:11,109 --> 00:03:15,459
ratbags bowditch who was also there who

63
00:03:13,239 --> 00:03:19,030
I interviewed now after all the filming

64
00:03:15,459 --> 00:03:22,000
is done we find a nice veranda and a

65
00:03:19,030 --> 00:03:24,489
nice old hotel and have a chat about the

66
00:03:22,000 --> 00:03:26,378
Blue Mountains and what it's like to

67
00:03:24,489 --> 00:03:28,959
live there in certain vaccination issues

68
00:03:26,378 --> 00:03:31,509
and what it's like to try to film must

69
00:03:28,959 --> 00:03:33,310
say I've had a little bit of that well

70
00:03:31,509 --> 00:03:35,378
I've had my share of a few unlucky

71
00:03:33,310 --> 00:03:40,329
things going on lately trying to film

72
00:03:35,378 --> 00:03:42,399
with noises going off and unfavorable

73
00:03:40,329 --> 00:03:44,889
lighting conditions and me for getting

74
00:03:42,400 --> 00:03:47,109
my script and we're getting there though

75
00:03:44,889 --> 00:03:48,819
we're getting there folks then to round

76
00:03:47,109 --> 00:03:51,129
off the show something completely

77
00:03:48,818 --> 00:03:54,789
different but very worth while listening

78
00:03:51,128 --> 00:03:56,948
to Maynard spooky action maynards going

79
00:03:54,789 --> 00:04:01,959
to be talking to dr. Peter Davies about

80
00:03:56,949 --> 00:04:05,019
I health and macular degeneration not

81
00:04:01,959 --> 00:04:08,709
quite a sceptical topic ok yes I'll

82
00:04:05,019 --> 00:04:12,219
grant you that but um really really

83
00:04:08,709 --> 00:04:14,199
interesting and really good advice dr.

84
00:04:12,219 --> 00:04:16,658
Peter Davies will give you really good

85
00:04:14,199 --> 00:04:20,530
advice about a very simple check you can

86

00:04:16,658 --> 00:04:22,538
do to test your eye health so let's put

87
00:04:20,529 --> 00:04:25,629
this one in the category of good science

88
00:04:22,538 --> 00:04:28,149
good scientific the base medicine in

89
00:04:25,629 --> 00:04:32,829
action that's to round off the show

90
00:04:28,149 --> 00:04:34,089
please visit www.bucks.com today you to

91
00:04:32,829 --> 00:04:36,879
find out more about our upcoming

92
00:04:34,089 --> 00:04:39,310
convention in November with the skeptics

93
00:04:36,879 --> 00:04:42,218
guide to the universe Dick Smith dr.

94
00:04:39,310 --> 00:04:45,490
Reggie dr. Carl Cruz menisci a cast of

95
00:04:42,218 --> 00:04:47,110
thousands cast of thousands tickets are

96
00:04:45,490 --> 00:04:48,730
on sale looking

97
00:04:47,110 --> 00:04:50,139
forward to that looking forward to

98
00:04:48,730 --> 00:04:52,450
catching up to a lot of my friends at

99
00:04:50,139 --> 00:04:54,819
the amazing meeting in Las Vegas it'll

100
00:04:52,449 --> 00:04:56,800

be so great to see James Randi once

101

00:04:54,819 --> 00:04:59,170

again and thank you for those people who

102

00:04:56,800 --> 00:05:03,069

do help the skeptic zone by chipping in

103

00:04:59,170 --> 00:05:05,319

via micro payments on paypal and if you

104

00:05:03,069 --> 00:05:09,300

want if you want to put a link on the

105

00:05:05,319 --> 00:05:13,540

skeptics own page at wwc a peg on TV

106

00:05:09,300 --> 00:05:18,040

I've put a few of my arm photographs of

107

00:05:13,540 --> 00:05:20,590

origami up on insta prints is the prints

108

00:05:18,040 --> 00:05:25,090

like Instagram insta prints where you

109

00:05:20,589 --> 00:05:27,549

can purchase a framed copy of some of my

110

00:05:25,089 --> 00:05:29,229

money foldings and things like that well

111

00:05:27,550 --> 00:05:31,030

if you're interested you can check that

112

00:05:29,230 --> 00:05:33,970

out and of course all proceeds go to

113

00:05:31,029 --> 00:05:35,379

help the skeptics own podcast well

114

00:05:33,970 --> 00:05:37,270

that's all from me at the moment since

115
00:05:35,379 --> 00:05:38,939
i'm downstairs anyway there's no point

116
00:05:37,269 --> 00:05:46,259
in me running even further down stairs

117
00:05:38,939 --> 00:05:48,879
what's this this is a big jar of

118
00:05:46,259 --> 00:05:53,339
couscous haven't had that for a while

119
00:05:48,879 --> 00:05:55,949
hmm why not while I heat up and cook

120
00:05:53,339 --> 00:05:58,000
undo whatever you do with couscous I

121
00:05:55,949 --> 00:06:02,699
think it's a good with a bit of chili

122
00:05:58,000 --> 00:06:02,699
sauce I hope you enjoy the skeptics

123
00:06:18,899 --> 00:06:30,459
it'll take this with a grain of salt

124
00:06:21,509 --> 00:06:33,009
seas around ticket so i'm here with nate

125
00:06:30,459 --> 00:06:36,818
phelps ladies known to many skeptics as

126
00:06:33,009 --> 00:06:39,340
the survivor of the Westboro Baptist

127
00:06:36,819 --> 00:06:41,680
Church showing the Sun in the Sun I'm

128
00:06:39,339 --> 00:06:46,679
sorry I had to say that way I'm duh and

129
00:06:41,680 --> 00:06:50,650
a son of the late Fred Phelps and I

130
00:06:46,680 --> 00:06:52,718
would like to first ask you about how

131
00:06:50,649 --> 00:06:57,339
you enjoy QED here and what's your

132
00:06:52,718 --> 00:07:00,459
impression is so far wet no actually I

133
00:06:57,339 --> 00:07:04,778
like a lot I love the people the accent

134
00:07:00,459 --> 00:07:06,668
I'm a people watcher so I sitting in the

135
00:07:04,778 --> 00:07:11,408
bar and i watch people go by it it's

136
00:07:06,668 --> 00:07:13,810
interesting that you see certain British

137
00:07:11,408 --> 00:07:15,310
characters I don't know if I'm saying

138
00:07:13,810 --> 00:07:18,939
that right but certain looks that are

139
00:07:15,310 --> 00:07:21,360
very British bowler hats no not that I'm

140
00:07:18,939 --> 00:07:23,560
talking about like facial features and

141
00:07:21,360 --> 00:07:27,370
you know like this there's a lot of the

142
00:07:23,560 --> 00:07:32,079
tall whether they call them gingers yeah

143

00:07:27,370 --> 00:07:34,028
and just a lot of the stereotype ideas

144
00:07:32,079 --> 00:07:36,459
that i have about the British and I see

145
00:07:34,028 --> 00:07:38,319
them in the people right but other than

146
00:07:36,459 --> 00:07:39,698
that this is this is nothing like I

147
00:07:38,319 --> 00:07:44,979
thought it would be when you see some of

148
00:07:39,699 --> 00:07:49,930
the old British look out on the street

149
00:07:44,978 --> 00:07:52,060
but this is a very metropolitan country

150
00:07:49,930 --> 00:07:54,699
now compared to what you were you

151
00:07:52,060 --> 00:07:56,319
typically thinking all right typically

152
00:07:54,699 --> 00:07:58,088
think so if you have you had a lot of

153
00:07:56,319 --> 00:08:01,180
discussions here with different people

154
00:07:58,088 --> 00:08:02,500
yeah okay so and and found out a lot of

155
00:08:01,180 --> 00:08:05,680
differences like I have to actually go

156
00:08:02,500 --> 00:08:08,168
to the bar to particular great instead

157
00:08:05,680 --> 00:08:10,329

of this the waitress coming to the table

158

00:08:08,168 --> 00:08:12,399
that's just not right you know in

159

00:08:10,329 --> 00:08:15,218
Australia you can't buy alcohol and

160

00:08:12,399 --> 00:08:17,500
supermarket you can now you cannot you

161

00:08:15,218 --> 00:08:19,029
cannot there's special specialized shops

162

00:08:17,500 --> 00:08:20,800
called bottle shops

163

00:08:19,029 --> 00:08:24,159
see that you have actually Canada's that

164

00:08:20,800 --> 00:08:26,379
way too oh cool yeah yeah but England's

165

00:08:24,160 --> 00:08:28,090
not she's the one that started all this

166

00:08:26,379 --> 00:08:30,339
nonsense and then they then they renege

167

00:08:28,089 --> 00:08:33,159
and they leave it up to us all these

168

00:08:30,339 --> 00:08:34,269
yeah we'll be all the outcome if they

169

00:08:33,159 --> 00:08:35,709
know you say you mentioned Kennedy

170

00:08:34,269 --> 00:08:37,750
you're not leaving Canada I mean on to

171

00:08:35,710 --> 00:08:39,250
it you know originally from no no I from

172
00:08:37,750 --> 00:08:42,269
the states yeah born and raised in

173
00:08:39,250 --> 00:08:44,320
Topeka where my were the churches and

174
00:08:42,269 --> 00:08:47,579
spent 25 years in Southern California

175
00:08:44,320 --> 00:08:51,670
and then moved up to Canada and in

176
00:08:47,580 --> 00:08:53,350
December of 2005 so moving to canada in

177
00:08:51,669 --> 00:08:57,069
december that's quite brave but apart

178
00:08:53,350 --> 00:08:59,649
from that but apart from that about from

179
00:08:57,070 --> 00:09:02,230
that say you grew up in the u.s. in in

180
00:08:59,649 --> 00:09:04,269
the defective I don't know whether

181
00:09:02,230 --> 00:09:08,769
famous or infamous or both this is the

182
00:09:04,269 --> 00:09:11,139
correct term but Phelps family you were

183
00:09:08,769 --> 00:09:14,079
one of 13 if i remember correctly yeah

184
00:09:11,139 --> 00:09:15,549
so would you care to tell you tell me a

185
00:09:14,080 --> 00:09:18,160
little bit about that big your

186
00:09:15,549 --> 00:09:21,579
experience yeah it's of course it's

187
00:09:18,159 --> 00:09:24,159
impossible to encapsulate at all in the

188
00:09:21,580 --> 00:09:28,389
short period of time so i would say that

189
00:09:24,159 --> 00:09:32,069
it was it was intense it was dogmatic

190
00:09:28,389 --> 00:09:35,439
and it was violent both physically and

191
00:09:32,070 --> 00:09:37,510
psychologically of course you don't know

192
00:09:35,440 --> 00:09:41,340
that growing up there it just was what

193
00:09:37,509 --> 00:09:43,990
it was but when you have that many

194
00:09:41,340 --> 00:09:49,870
children running around and then my

195
00:09:43,990 --> 00:09:52,899
father for all of his his faults was a

196
00:09:49,870 --> 00:09:54,700
very energetic person it was constantly

197
00:09:52,899 --> 00:09:57,419
coming up with new ideas and do things

198
00:09:54,700 --> 00:10:01,000
that he wanted to do and then he would

199
00:09:57,419 --> 00:10:04,209
he would in script the kids so for

200

00:10:01,000 --> 00:10:07,600
instance he was he got really sick

201
00:10:04,210 --> 00:10:09,730
because he'd let himself going his

202
00:10:07,600 --> 00:10:11,550
weight was high in and came back from

203
00:10:09,730 --> 00:10:13,600
some trip and ended up in the hospital

204
00:10:11,549 --> 00:10:15,849
so he comes out of the hospital and

205
00:10:13,600 --> 00:10:20,269
suddenly he's on a mission to get

206
00:10:15,850 --> 00:10:22,528
healthy again and that translated to

207
00:10:20,269 --> 00:10:26,549
well at that time I think it would have

208
00:10:22,528 --> 00:10:27,958
been about 10 of us 10 kids and my mom

209
00:10:26,549 --> 00:10:30,778
and my dad and we're out running around

210
00:10:27,958 --> 00:10:33,750
the local high school track 10 miles a

211
00:10:30,778 --> 00:10:35,100
night within two or three months you

212
00:10:33,750 --> 00:10:38,549
know so that it was that kind of

213
00:10:35,100 --> 00:10:43,980
anything he did it would it was manic

214
00:10:38,549 --> 00:10:46,049

and it was extreme and and so that's

215

00:10:43,980 --> 00:10:48,810
kind of how we learned about the world

216

00:10:46,049 --> 00:10:50,159
we were in but you mentioned in an

217

00:10:48,809 --> 00:10:52,549
earlier discussion that we had that he

218

00:10:50,159 --> 00:10:55,559
actually went to public school yep

219

00:10:52,549 --> 00:10:59,818
that's interesting because my father had

220

00:10:55,559 --> 00:11:04,078
had such control over the the family in

221

00:10:59,818 --> 00:11:05,610
the church at least this is how I look

222

00:11:04,078 --> 00:11:10,528
at it now because a lot of people

223

00:11:05,610 --> 00:11:12,300
expressed surprise that that we weren't

224

00:11:10,528 --> 00:11:14,220
cloistered we weren't home schooled on

225

00:11:12,299 --> 00:11:16,378
that concept it just was never an issue

226

00:11:14,220 --> 00:11:19,379
but what he did do is he reached out to

227

00:11:16,379 --> 00:11:21,149
the schools and he made darn sure that

228

00:11:19,379 --> 00:11:24,269
they weren't doing anything he didn't

229

00:11:21,149 --> 00:11:27,568

want him to do so like when I was in

230

00:11:24,269 --> 00:11:31,250

grade school if they they were still

231

00:11:27,568 --> 00:11:34,099

doing like Christmas carols and and

232

00:11:31,250 --> 00:11:37,470

having events in the classrooms

233

00:11:34,100 --> 00:11:39,180

surrounding Christmastime and my father

234

00:11:37,470 --> 00:11:42,509

you know we didn't celebrate Christmas

235

00:11:39,179 --> 00:11:44,879

so he saw to it that every time they

236

00:11:42,509 --> 00:11:48,120

were going to do anything Christmasy

237

00:11:44,879 --> 00:11:49,708

that they had to first remove any Phelps

238

00:11:48,120 --> 00:11:51,419

kids from the classroom and send us down

239

00:11:49,708 --> 00:11:54,479

to the library and they did what they

240

00:11:51,419 --> 00:11:59,969

did and we went back and why you know so

241

00:11:54,480 --> 00:12:01,620

different Christmas I am NOT asking you

242

00:11:59,970 --> 00:12:04,980

for the reason I'm asking you for the

243
00:12:01,620 --> 00:12:10,649
excuse no yeah it seems to me like it

244
00:12:04,980 --> 00:12:12,750
was is the Bible didn't charge us to

245
00:12:10,649 --> 00:12:15,539
celebrate his birth but rather his death

246
00:12:12,750 --> 00:12:17,610
that was kind of it was and it had its

247
00:12:15,539 --> 00:12:20,188
roots in paganism and that kind of stuff

248
00:12:17,610 --> 00:12:23,129
so that was the reasons that he gave

249
00:12:20,188 --> 00:12:26,068
that we worship we weren't supposed to

250
00:12:23,129 --> 00:12:27,420
be celebrating the birth of Christ yeah

251
00:12:26,068 --> 00:12:29,529
I'm not sure if that's true or not if

252
00:12:27,419 --> 00:12:32,539
you look at you read the Bible properly

253
00:12:29,529 --> 00:12:34,669
I've stopped at the end of the Old

254
00:12:32,539 --> 00:12:36,230
Testament sir that's right you don't

255
00:12:34,669 --> 00:12:40,250
have you don't have access Ivan bad

256
00:12:36,230 --> 00:12:45,139
accident not allowed to open that well

257

00:12:40,250 --> 00:12:47,149
sure but this sounds like this I mean

258
00:12:45,139 --> 00:12:50,090
there was definitely a different kind of

259
00:12:47,149 --> 00:12:52,189
theology involved here and there's these

260
00:12:50,090 --> 00:12:53,750
two things I would like you to perhaps

261
00:12:52,190 --> 00:12:56,390
tell me a little bit more about first of

262
00:12:53,750 --> 00:12:57,559
all about how that theology reflector

263
00:12:56,389 --> 00:12:59,600
Denis what what what did you actually

264
00:12:57,559 --> 00:13:01,609
know and what was simply part of the

265
00:12:59,600 --> 00:13:03,700
environment and the other thing I wanted

266
00:13:01,610 --> 00:13:06,769
to to know is more around the

267
00:13:03,700 --> 00:13:09,410
relationship between the Phelps family

268
00:13:06,769 --> 00:13:11,809
in westborough baptist church in terms

269
00:13:09,409 --> 00:13:15,139
of is it just one in the same or is that

270
00:13:11,809 --> 00:13:17,569
other extensions that is just the mummy

271
00:13:15,139 --> 00:13:20,149

daddy and 13 kids always if he's more

272

00:13:17,570 --> 00:13:21,410

than that you could yeah well let me let

273

00:13:20,149 --> 00:13:22,909

me talk on that first and we'll go back

274

00:13:21,409 --> 00:13:25,850

so i can get clarity on that first

275

00:13:22,909 --> 00:13:28,490

question the whole time i was growing up

276

00:13:25,850 --> 00:13:31,850

there it was it was primarily my family

277

00:13:28,490 --> 00:13:34,879

and then there was two smaller families

278

00:13:31,850 --> 00:13:37,700

one was the haka burgers no really

279

00:13:34,879 --> 00:13:40,460

seriously holcomb barbers and okay and

280

00:13:37,700 --> 00:13:42,580

and the other family was the Davises and

281

00:13:40,460 --> 00:13:47,540

they had the haka barbers had three kids

282

00:13:42,580 --> 00:13:52,040

Davis has had four so that was it that

283

00:13:47,539 --> 00:13:53,929

was so seven eight nine eleven there was

284

00:13:52,039 --> 00:13:57,079

about 25 people in that church on a

285

00:13:53,929 --> 00:13:59,479

typical sunday from time to time people

286

00:13:57,080 --> 00:14:03,590

would come and go it didn't last very

287

00:13:59,480 --> 00:14:04,700

long folks what's often times someone

288

00:14:03,590 --> 00:14:06,259

would show up for the morning service

289

00:14:04,700 --> 00:14:07,550

and we never saw him again you know they

290

00:14:06,259 --> 00:14:10,000

would be driving by and they'd see the

291

00:14:07,549 --> 00:14:14,019

sign and decide to

292

00:14:10,000 --> 00:14:16,059

to check it out and I remember on more

293

00:14:14,019 --> 00:14:18,340

than one occasion the old men get this

294

00:14:16,059 --> 00:14:20,409

kind of wry grin on his face when

295

00:14:18,340 --> 00:14:23,379

someone new would come in and he would

296

00:14:20,409 --> 00:14:25,240

make a show of taking his sermon that he

297

00:14:23,379 --> 00:14:27,929

was going to preach and putting it in

298

00:14:25,240 --> 00:14:31,539

the pulpit and then pulling out his

299

00:14:27,929 --> 00:14:33,189

helps toast and it's basically scare him

300
00:14:31,539 --> 00:14:35,049
off right he was going to hit him with

301
00:14:33,190 --> 00:14:36,490
both barrels and then if they didn't

302
00:14:35,049 --> 00:14:39,219
stick around they weren't they weren't

303
00:14:36,490 --> 00:14:41,350
put yet anyway right so they were we

304
00:14:39,220 --> 00:14:43,840
were pretty much the church was the

305
00:14:41,350 --> 00:14:48,220
phelps family church was fred phelps

306
00:14:43,840 --> 00:14:49,480
really yeah so yeah so the perhaps the

307
00:14:48,220 --> 00:14:51,490
second question but I would be very

308
00:14:49,480 --> 00:14:53,170
interested to follow that up with what's

309
00:14:51,490 --> 00:14:54,909
going to happen now but but let's let's

310
00:14:53,169 --> 00:14:57,039
fish down what it was the first question

311
00:14:54,909 --> 00:14:58,839
you can see about theology about what

312
00:14:57,039 --> 00:15:01,299
were we touch so yeah so I mean

313
00:14:58,840 --> 00:15:04,210
obviously your father had a his own

314

00:15:01,299 --> 00:15:05,439
peculiar theology the question is how

315
00:15:04,210 --> 00:15:07,150
much of it was simply part of the

316
00:15:05,440 --> 00:15:09,820
environment almost I would call it

317
00:15:07,149 --> 00:15:11,949
cultural and how much was consciously

318
00:15:09,820 --> 00:15:13,870
religious in a sense of you are aware of

319
00:15:11,950 --> 00:15:17,230
the reasoning behind it you are aware of

320
00:15:13,870 --> 00:15:18,700
what the intent was so how much work was

321
00:15:17,230 --> 00:15:22,529
of it was really religious and how much

322
00:15:18,700 --> 00:15:25,150
which was was just populated a life on

323
00:15:22,529 --> 00:15:28,088
Sundays it was a hundred percent

324
00:15:25,149 --> 00:15:33,929
religious and my father was very serious

325
00:15:28,089 --> 00:15:37,120
about teaching everyone in that church

326
00:15:33,929 --> 00:15:39,219
what the Bible had to say so he would

327
00:15:37,120 --> 00:15:45,779
spend hours and he would get into the

328
00:15:39,220 --> 00:15:48,279

nuances and and you know parsing the the

329

00:15:45,779 --> 00:15:51,879

the meaning of that word or this word to

330

00:15:48,279 --> 00:15:54,220

end and was very particular about how

331

00:15:51,879 --> 00:15:58,779

then we behaved and expressed that in

332

00:15:54,220 --> 00:16:02,200

our in our lives right for instance I

333

00:15:58,779 --> 00:16:04,480

talked about his interpretation of the

334

00:16:02,200 --> 00:16:07,490

word

335

00:16:04,480 --> 00:16:10,610

long we're talking about women's hair

336

00:16:07,490 --> 00:16:13,430

and I believe it's in first Corinthians

337

00:16:10,610 --> 00:16:16,039

he said that word was was improperly

338

00:16:13,429 --> 00:16:19,309

translated it should actually say it be

339

00:16:16,039 --> 00:16:22,909

translated as uncut so women just didn't

340

00:16:19,309 --> 00:16:26,750

cut their hair so those kind of details

341

00:16:22,909 --> 00:16:29,089

were strictly adhere to but what was

342

00:16:26,750 --> 00:16:31,970

very interesting was once we got out of

343
00:16:29,090 --> 00:16:37,210
the church and it was monday morning

344
00:16:31,970 --> 00:16:37,210
then I was struck often by how

345
00:16:38,019 --> 00:16:45,079
ineffective we were at adhering to the

346
00:16:43,000 --> 00:16:48,860
doctrines so to speak that were they

347
00:16:45,080 --> 00:16:51,920
were taught on Sundays my father had he

348
00:16:48,860 --> 00:16:53,570
had a mouth on him and that was an issue

349
00:16:51,919 --> 00:16:55,699
that you know we were taught as kids you

350
00:16:53,570 --> 00:16:57,170
don't you know you're certain words he

351
00:16:55,700 --> 00:16:58,670
had no qualms about doing that he had no

352
00:16:57,169 --> 00:17:00,949
qualms about treating people a certain

353
00:16:58,669 --> 00:17:04,670
way and to me that was part and parcel

354
00:17:00,950 --> 00:17:05,990
of what being a Christian was and there

355
00:17:04,670 --> 00:17:08,029
certainly worked only a plenty of

356
00:17:05,990 --> 00:17:10,910
passages he may not have spent a lot of

357
00:17:08,029 --> 00:17:13,490
time stressing but they were there about

358
00:17:10,910 --> 00:17:16,459
how you treated people right so there

359
00:17:13,490 --> 00:17:19,009
was from the very beginning once I was

360
00:17:16,459 --> 00:17:20,900
at an age of awareness and being able to

361
00:17:19,009 --> 00:17:23,660
to look and say what wait a minute this

362
00:17:20,900 --> 00:17:25,970
doesn't fit there was a lot of hypocrisy

363
00:17:23,660 --> 00:17:29,960
between the words and the actions right

364
00:17:25,970 --> 00:17:35,920
so he was very sincere about getting it

365
00:17:29,960 --> 00:17:39,920
right dr. Lee but there was a curious

366
00:17:35,920 --> 00:17:41,390
disconnect and how he applied it in the

367
00:17:39,920 --> 00:17:47,180
way he behaved in there in

368
00:17:41,390 --> 00:17:49,400
in the real world and he's a most

369
00:17:47,180 --> 00:17:52,990
listeners would know he's passed away

370
00:17:49,400 --> 00:17:57,440
recently few weeks ago yeah the 19th

371

00:17:52,990 --> 00:17:59,480
through the 19th of March yeah so this

372
00:17:57,440 --> 00:18:04,360
is something we've discussed a couple of

373
00:17:59,480 --> 00:18:04,360
nights ago and asked you about grief and

374
00:18:04,690 --> 00:18:11,029
obviously he was your father I mean

375
00:18:07,759 --> 00:18:13,730
regardless of the long disconnects and

376
00:18:11,029 --> 00:18:15,529
the fact that you disagreed on on

377
00:18:13,730 --> 00:18:18,620
probably more than you would have agreed

378
00:18:15,529 --> 00:18:20,269
on yeah it was your father and how was

379
00:18:18,619 --> 00:18:26,059
your response how did you feel about

380
00:18:20,269 --> 00:18:28,339
that well when you decide to leave that

381
00:18:26,059 --> 00:18:33,710
church you or ostracize you're cut off

382
00:18:28,339 --> 00:18:36,439
so effectively on my 18th birthday or

383
00:18:33,710 --> 00:18:38,990
soon thereafter I was I no longer had a

384
00:18:36,440 --> 00:18:41,750
family you know well I had a brother in

385
00:18:38,990 --> 00:18:46,579

her butt but the lion's share my family

386

00:18:41,750 --> 00:18:48,140
was was cut off so at first you go

387

00:18:46,579 --> 00:18:49,759
through a process of saying well not

388

00:18:48,140 --> 00:18:51,050
really you know there's we can make this

389

00:18:49,759 --> 00:18:52,160
work out in that kind of stuff and then

390

00:18:51,049 --> 00:18:54,680
you get to a point your life from your

391

00:18:52,160 --> 00:18:56,380
lies no this isn't this isn't coming

392

00:18:54,680 --> 00:18:59,870
back it's not going to happen so

393

00:18:56,380 --> 00:19:02,150
somewhere in that first ten years or so

394

00:18:59,869 --> 00:19:03,619
I went through a process of a deliberate

395

00:19:02,150 --> 00:19:05,900
process of mourning the loss of my

396

00:19:03,619 --> 00:19:10,549
family because that in fact is what I

397

00:19:05,900 --> 00:19:13,850
had experienced right and so I can point

398

00:19:10,549 --> 00:19:18,529
to that and then I also point to just

399

00:19:13,849 --> 00:19:22,490
the passage of time and you know I don't

400
00:19:18,529 --> 00:19:25,099
know if it's you you get it calloused or

401
00:19:22,490 --> 00:19:27,650
whatever but somehow you can start to

402
00:19:25,099 --> 00:19:31,399
let go of those feelings and those that

403
00:19:27,650 --> 00:19:35,240
those needs those that desire to be

404
00:19:31,400 --> 00:19:37,070
connected so I I was convinced when he

405
00:19:35,240 --> 00:19:38,539
that when he passed there wasn't going

406
00:19:37,069 --> 00:19:39,379
to be any emotions it was simply going

407
00:19:38,539 --> 00:19:41,720
to be in a

408
00:19:39,380 --> 00:19:46,220
that came and went there was a little

409
00:19:41,720 --> 00:19:50,900
bit again I think it's you know when you

410
00:19:46,220 --> 00:19:52,519
stay he was your father I I struggle

411
00:19:50,900 --> 00:19:55,190
with that a little bit because i'm not

412
00:19:52,519 --> 00:19:56,809
quite sure what that means I think that

413
00:19:55,190 --> 00:20:00,740
it means something to the person that

414
00:19:56,809 --> 00:20:07,730
says it yeah but to say he was my father

415
00:20:00,740 --> 00:20:09,799
I mean so he was there when when certain

416
00:20:07,730 --> 00:20:12,200
things happen door he was there he was

417
00:20:09,799 --> 00:20:14,599
he was someone I I turned to for advice

418
00:20:12,200 --> 00:20:16,880
and for inspiration and all that kind of

419
00:20:14,599 --> 00:20:18,379
that's those are the kind of things that

420
00:20:16,880 --> 00:20:21,310
we mean when we say he was your father

421
00:20:18,380 --> 00:20:25,360
right and I didn't have any of that so

422
00:20:21,309 --> 00:20:27,889
the emotion was more about what

423
00:20:25,359 --> 00:20:29,179
recognizing intellectually that there's

424
00:20:27,890 --> 00:20:35,360
something that I could have had that I

425
00:20:29,180 --> 00:20:36,680
didn't and morning that but other than

426
00:20:35,359 --> 00:20:39,409
that there really hasn't been that much

427
00:20:36,680 --> 00:20:41,299
and what was the public response I mean

428

00:20:39,410 --> 00:20:43,070
you must have live in Europe prominent

429
00:20:41,299 --> 00:20:46,009
public the public speaker you're right

430
00:20:43,069 --> 00:20:48,230
you're in cfi Canada but what was the

431
00:20:46,009 --> 00:20:52,160
how would did the public respond to you

432
00:20:48,230 --> 00:20:55,279
and not directly to you well directly to

433
00:20:52,160 --> 00:20:59,600
me the the overwhelming majority of it

434
00:20:55,279 --> 00:21:03,889
was support and kindness and well wishes

435
00:20:59,599 --> 00:21:05,779
and that I think there were some places

436
00:21:03,890 --> 00:21:08,240
that I went that were you know I I had

437
00:21:05,779 --> 00:21:10,970
to go searching for it where there was

438
00:21:08,240 --> 00:21:15,710
as I would expect a lot of bitterness

439
00:21:10,970 --> 00:21:17,930
and a lot of anger and recrimination

440
00:21:15,710 --> 00:21:20,900
towards my father and and I understand

441
00:21:17,930 --> 00:21:22,700
that you know I don't you know people

442
00:21:20,900 --> 00:21:24,290

talking about spitting on its grave and

443

00:21:22,700 --> 00:21:27,980

that kind of stuff I understand the

444

00:21:24,289 --> 00:21:29,960

anger I just I can't I can't condone it

445

00:21:27,980 --> 00:21:32,089

because I don't think it's best for the

446

00:21:29,960 --> 00:21:34,730

people who are experiencing it to be

447

00:21:32,089 --> 00:21:38,299

honest with you so but by and large it

448

00:21:34,730 --> 00:21:39,740

was very positive for me I didn't there

449

00:21:38,299 --> 00:21:43,159

wasn't there wasn't anything that was

450

00:21:39,740 --> 00:21:44,599

shocking that I came across as far as

451

00:21:43,160 --> 00:21:46,250

what people had to say about it and

452

00:21:44,599 --> 00:21:47,490

what's going to happen to us but public

453

00:21:46,250 --> 00:21:51,329

baptist church

454

00:21:47,490 --> 00:21:54,420

no no every bean in touch with him look

455

00:21:51,329 --> 00:21:57,419

like none of them that are there I tried

456

00:21:54,420 --> 00:22:00,720

to when I found out he was it was sick

457
00:21:57,420 --> 00:22:04,860
and and that didn't work out but they

458
00:22:00,720 --> 00:22:09,779
are their public images that you know

459
00:22:04,859 --> 00:22:12,359
this is we don't worship the dead this

460
00:22:09,779 --> 00:22:13,740
has happened and we move on there's some

461
00:22:12,359 --> 00:22:16,490
evidence that he was kicked out of the

462
00:22:13,740 --> 00:22:18,599
church so they may have already

463
00:22:16,490 --> 00:22:21,569
emotionally disconnected from him long

464
00:22:18,599 --> 00:22:24,509
before he passed so would one of your

465
00:22:21,569 --> 00:22:25,829
brothers take oh oh well I'm not sure

466
00:22:24,509 --> 00:22:29,990
who's going to take over there's a

467
00:22:25,829 --> 00:22:32,460
there's a group of eight men who are a

468
00:22:29,990 --> 00:22:35,880
Board of Elders it was just recently

469
00:22:32,460 --> 00:22:40,410
formed in the last year or two and they

470
00:22:35,880 --> 00:22:42,030
apparently are heading things up it

471
00:22:40,410 --> 00:22:45,058
could could end up being Steve drain

472
00:22:42,029 --> 00:22:49,710
who's the one of the more public figures

473
00:22:45,058 --> 00:22:53,690
in the and the and the picket campaign I

474
00:22:49,710 --> 00:22:56,009
know that they have have muzzled surely

475
00:22:53,690 --> 00:22:58,890
she would never have been able to be a

476
00:22:56,009 --> 00:23:02,279
leader anyway but they've taken it a

477
00:22:58,890 --> 00:23:05,090
step further and actually silencer and

478
00:23:02,279 --> 00:23:10,500
Shirley's my sister who has has been the

479
00:23:05,089 --> 00:23:14,129
the public persona of the Westboro

480
00:23:10,500 --> 00:23:15,660
campaign for years I mean other than

481
00:23:14,130 --> 00:23:18,690
Fred Phelps everybody talked about

482
00:23:15,660 --> 00:23:21,480
Shirley phelps-roper and and because in

483
00:23:18,690 --> 00:23:26,070
fact she was that next generation of the

484
00:23:21,480 --> 00:23:30,150
angry vitriolic you know face screwed up

485

00:23:26,069 --> 00:23:31,799
in anger at the world and a lot of folks

486
00:23:30,150 --> 00:23:33,960
thought she would be the next leader

487
00:23:31,799 --> 00:23:36,019
right and and I was and I would tell him

488
00:23:33,960 --> 00:23:38,700
no she can't because she's one long yeah

489
00:23:36,019 --> 00:23:41,609
so

490
00:23:38,700 --> 00:23:43,230
the evidence now is that at some point

491
00:23:41,609 --> 00:23:47,189
in the last couple years that they

492
00:23:43,230 --> 00:23:50,059
deliberately took action to silence her

493
00:23:47,190 --> 00:23:55,500
to put her in her place if you will and

494
00:23:50,059 --> 00:23:58,619
so now it's it's Steve drain or my

495
00:23:55,500 --> 00:24:02,970
brother Tim seemed to be the two that

496
00:23:58,619 --> 00:24:06,029
are most likely to head the church okay

497
00:24:02,970 --> 00:24:09,990
now let's move on a little bit all right

498
00:24:06,029 --> 00:24:11,819
because you have left that church more

499
00:24:09,990 --> 00:24:13,680

than a few weeks ago yeah and you have

500

00:24:11,819 --> 00:24:16,829

done if you this thing if you think this

501

00:24:13,680 --> 00:24:18,539

should do one or two known i do i'm not

502

00:24:16,829 --> 00:24:21,119

proud of but yeah let's talk about the

503

00:24:18,539 --> 00:24:24,629

things that you are proud so let's let's

504

00:24:21,119 --> 00:24:27,479

cut right to the present day you are you

505

00:24:24,630 --> 00:24:31,230

you have a role in see if I Canada what

506

00:24:27,480 --> 00:24:33,480

is that see if I Canada started like six

507

00:24:31,230 --> 00:24:36,750

years ago and we have I think I want to

508

00:24:33,480 --> 00:24:38,670

say 10 branches now and i run the

509

00:24:36,750 --> 00:24:41,250

calgary branch i'm the executive

510

00:24:38,670 --> 00:24:45,840

director of cfi calgary canada canada

511

00:24:41,250 --> 00:24:52,940

calgary and we have speakers you know

512

00:24:45,839 --> 00:24:55,409

and we do events for their community and

513

00:24:52,940 --> 00:24:56,970

we've we've made quite a presence for

514
00:24:55,410 --> 00:24:59,790
ourselves there in the last four years

515
00:24:56,970 --> 00:25:01,740
since i started doing that and I also

516
00:24:59,789 --> 00:25:03,299
serve on the board of directors for a

517
00:25:01,740 --> 00:25:07,380
group called recovering from religion

518
00:25:03,299 --> 00:25:09,269
which is what it sounds like it's it's

519
00:25:07,380 --> 00:25:11,910
like you know people get together much

520
00:25:09,269 --> 00:25:14,789
like the AAA format you'll meet at

521
00:25:11,910 --> 00:25:18,029
someone's home or at some location and

522
00:25:14,789 --> 00:25:21,089
and they just they use each other to

523
00:25:18,029 --> 00:25:23,639
help process and deal with their journey

524
00:25:21,089 --> 00:25:25,649
away from some destructive religious

525
00:25:23,640 --> 00:25:30,270
experience that they've they've been in

526
00:25:25,650 --> 00:25:33,220
and and then I go around and speak all

527
00:25:30,269 --> 00:25:38,529
over North America and and

528
00:25:33,220 --> 00:25:41,558
now I can say in Europe so yeah good

529
00:25:38,529 --> 00:25:42,908
stuff and you also you're also

530
00:25:41,558 --> 00:25:45,519
campaigned on issues that are not

531
00:25:42,909 --> 00:25:48,280
directly related to skepticism but are

532
00:25:45,519 --> 00:25:51,579
some somewhat related to your history

533
00:25:48,279 --> 00:25:56,319
yeah well yeah I go to I speak a lot it

534
00:25:51,579 --> 00:26:01,329
at LGBT events the support LGBT groups I

535
00:25:56,319 --> 00:26:03,849
speak out I write about it and yeah I

536
00:26:01,329 --> 00:26:05,889
advocate for LGBT rights in North

537
00:26:03,849 --> 00:26:07,629
America of course Canada it's legal

538
00:26:05,890 --> 00:26:09,940
there to get married but you know

539
00:26:07,630 --> 00:26:12,880
just below us the u.s. is still fighting

540
00:26:09,940 --> 00:26:18,279
that battle so a lot of opportunity in

541
00:26:12,880 --> 00:26:21,490
that area and since you are active in

542

00:26:18,279 --> 00:26:22,480
the promotion of LGBT rights i'm just

543
00:26:21,490 --> 00:26:24,460
wondering whether you've ever

544
00:26:22,480 --> 00:26:29,308
encountered a non-religious argument

545
00:26:24,460 --> 00:26:34,360
against LGBT rights i can say i have not

546
00:26:29,308 --> 00:26:37,329
in fact there was a proposition 8 trial

547
00:26:34,359 --> 00:26:38,740
in California when maybe this is for an

548
00:26:37,329 --> 00:26:41,259
Australian audience the professional

549
00:26:38,740 --> 00:26:45,009
profits proposition 8 was a was a ballot

550
00:26:41,259 --> 00:26:47,679
initiative in California to make gay

551
00:26:45,009 --> 00:26:50,109
marriage basically make it impossible

552
00:26:47,679 --> 00:26:52,390
make it a constitutional amendment that

553
00:26:50,109 --> 00:26:53,649
only a man woman can get married but

554
00:26:52,390 --> 00:26:56,590
that's to the constitution of the state

555
00:26:53,650 --> 00:26:58,179
not yesterday night radius yeah and it's

556
00:26:56,589 --> 00:26:59,470

probably also important to note for

557

00:26:58,179 --> 00:27:03,640

those who don't know that in the United

558

00:26:59,470 --> 00:27:05,190

States citizens can actually put on the

559

00:27:03,640 --> 00:27:08,409

ballot in the state elections

560

00:27:05,190 --> 00:27:10,630

propositions that will then will they

561

00:27:08,409 --> 00:27:12,640

should then become law it will carry the

562

00:27:10,630 --> 00:27:14,500

weight of law typically a lot of those

563

00:27:12,640 --> 00:27:16,750

didn't have to be vetted by some legal

564

00:27:14,500 --> 00:27:19,179

challenge because oftentimes a way it's

565

00:27:16,750 --> 00:27:22,779

written language of that proposition is

566

00:27:19,179 --> 00:27:25,780

is not going to withstand you know some

567

00:27:22,779 --> 00:27:28,210

legal challenge so but nevertheless it's

568

00:27:25,779 --> 00:27:29,918

an important tool in the election

569

00:27:28,210 --> 00:27:31,058

process and the states so this

570

00:27:29,919 --> 00:27:33,250

proposition would put on the ballot

571
00:27:31,058 --> 00:27:36,639
ended up being funded in large part by

572
00:27:33,250 --> 00:27:39,910
the Mormon Church and it passed narrowly

573
00:27:36,640 --> 00:27:43,420
so then it went

574
00:27:39,910 --> 00:27:47,500
it became a legal battle and the trial

575
00:27:43,420 --> 00:27:50,830
lawyer or the trial judge in that trial

576
00:27:47,500 --> 00:27:54,789
basically got to hear all of the the

577
00:27:50,829 --> 00:27:56,919
popular arguments against gay marriage

578
00:27:54,789 --> 00:27:59,769
as part of the evidence that was

579
00:27:56,920 --> 00:28:05,620
presented at the trial and and in his

580
00:27:59,769 --> 00:28:08,529
written decision where he overturned

581
00:28:05,619 --> 00:28:11,259
proposition 8 he said that he basically

582
00:28:08,529 --> 00:28:14,379
defeated each one of those arguments for

583
00:28:11,259 --> 00:28:19,440
lack of evidence arguments such as it's

584
00:28:14,380 --> 00:28:24,330
not good for the children that that

585
00:28:19,440 --> 00:28:31,299
marriage is primarily for reproduction

586
00:28:24,329 --> 00:28:33,220
that homosexuality is a choice all these

587
00:28:31,299 --> 00:28:35,049
arguments that are out there that were

588
00:28:33,220 --> 00:28:37,150
supposed to be the justifications

589
00:28:35,049 --> 00:28:40,480
nevermind what the Bible says they were

590
00:28:37,150 --> 00:28:45,870
soundly defeated and he his what he

591
00:28:40,480 --> 00:28:49,660
wrote in his his decision is like a

592
00:28:45,869 --> 00:28:51,909
study in how to respond to all the

593
00:28:49,660 --> 00:28:54,640
popular arguments against gay marriage

594
00:28:51,910 --> 00:28:56,830
so there's nothing out there and and he

595
00:28:54,640 --> 00:28:59,290
concluded rightfully so that really what

596
00:28:56,829 --> 00:29:00,759
you're left with in is just a lot of

597
00:28:59,289 --> 00:29:02,500
people who just don't feel good about it

598
00:29:00,759 --> 00:29:05,980
because of some religious belief that

599

00:29:02,500 --> 00:29:10,420
they old and that's not how we make long

600
00:29:05,980 --> 00:29:12,670
and in America so now you can get

601
00:29:10,420 --> 00:29:15,460
married in California is this the kind

602
00:29:12,670 --> 00:29:17,830
of thing that could be challenged by go

603
00:29:15,460 --> 00:29:19,600
to the Supreme Court oh it isn't there I

604
00:29:17,829 --> 00:29:22,359
think they did try and ultimately the

605
00:29:19,599 --> 00:29:23,980
Supreme Court rejected hearing it did go

606
00:29:22,359 --> 00:29:28,479
to the appellate level and was was

607
00:29:23,980 --> 00:29:31,539
upheld and so

608
00:29:28,480 --> 00:29:34,569
and then they tried to get it before the

609
00:29:31,539 --> 00:29:37,269
Supreme Court and they rejected so it's

610
00:29:34,569 --> 00:29:41,710
settled it is settled yeah good okay

611
00:29:37,269 --> 00:29:43,509
there kid okay so night thank you very

612
00:29:41,710 --> 00:29:44,529
much for giving me some of your time it

613
00:29:43,509 --> 00:29:46,298

was a pleasure meeting you and speak

614

00:29:44,529 --> 00:30:01,808

yeah it's my pleasure to her thank you

615

00:29:46,298 --> 00:30:03,819

much astronomy cast it takes a fact

616

00:30:01,808 --> 00:30:05,889

space journey through the cosmos as it

617

00:30:03,819 --> 00:30:08,558

offers listeners weekly discussions on

618

00:30:05,890 --> 00:30:11,530

astronomical topics ranging from planets

619

00:30:08,558 --> 00:30:13,928

to cosmology hosted by Fraser Cain of

620

00:30:11,529 --> 00:30:14,798

Universe Today and myself dr. Pamela gay

621

00:30:13,929 --> 00:30:17,470

of southern illinois university

622

00:30:14,798 --> 00:30:19,329

edwardsville this show brings the

623

00:30:17,470 --> 00:30:21,759

questions of an avid astronomy lover

624

00:30:19,329 --> 00:30:23,859

directly to an astronomer together

625

00:30:21,759 --> 00:30:25,390

Fraser and I explore what is known and

626

00:30:23,859 --> 00:30:28,149

being discovered about the universe

627

00:30:25,390 --> 00:30:30,250

around us join us each week as we take a

628
00:30:28,150 --> 00:30:33,780
fax space journey through the cosmos at

629
00:30:30,250 --> 00:30:33,779
astronomy cast calm

630
00:30:40,019 --> 00:30:44,829
welcome to a week in science from our

631
00:30:42,640 --> 00:30:47,860
aisles bringing you the science you need

632
00:30:44,829 --> 00:30:50,470
to know when winter comes I crank up the

633
00:30:47,859 --> 00:30:52,869
heat and wrap myself in warm clothes but

634
00:30:50,470 --> 00:31:00,490
men you don't seem to do the same so why

635
00:30:52,869 --> 00:31:02,500
is one theory is that women have a

636
00:31:00,490 --> 00:31:04,240
higher core body temperature than men

637
00:31:02,500 --> 00:31:06,759
this would create a bigger difference

638
00:31:04,240 --> 00:31:09,069
between our internal temperature and the

639
00:31:06,759 --> 00:31:11,410
outside ambient temperature which makes

640
00:31:09,069 --> 00:31:13,269
us more sensitive to the cold but

641
00:31:11,410 --> 00:31:15,310
scientific evidence for this is a bit

642
00:31:13,269 --> 00:31:17,920
shaky with some studies finding a

643
00:31:15,309 --> 00:31:19,539
difference and others not overall it

644
00:31:17,920 --> 00:31:21,550
seems that women could have a slightly

645
00:31:19,539 --> 00:31:23,259
higher core temperature but we're only

646
00:31:21,549 --> 00:31:25,389
talking about point two degrees

647
00:31:23,259 --> 00:31:27,099
difference when you take into account

648
00:31:25,390 --> 00:31:30,160
other factors that change how people

649
00:31:27,099 --> 00:31:32,769
feel the cold like age Fitness hunger

650
00:31:30,160 --> 00:31:36,940
and tiredness this difference is really

651
00:31:32,769 --> 00:31:38,980
insignificant so if core body

652
00:31:36,940 --> 00:31:41,200
temperature isn't a factor then what's

653
00:31:38,980 --> 00:31:43,029
happening well it turns out that women

654
00:31:41,200 --> 00:31:45,819
have a lower skin temperature than men

655
00:31:43,029 --> 00:31:47,950
meaning that we feel the cold more women

656

00:31:45,819 --> 00:31:50,169
tend to have a higher skin surface area

657
00:31:47,950 --> 00:31:53,019
to volume ratio because we're generally

658
00:31:50,170 --> 00:31:54,970
smaller overall to stop too much heat

659
00:31:53,019 --> 00:31:57,549
loss through this surface area we have a

660
00:31:54,970 --> 00:31:59,860
lower flow of blood to the skin leading

661
00:31:57,549 --> 00:32:01,539
to a lower skin temperature this means

662
00:31:59,859 --> 00:32:03,609
that it takes a much smaller drop in

663
00:32:01,539 --> 00:32:06,220
temperature for our skin sensors to

664
00:32:03,609 --> 00:32:08,409
detect that we're feeling cold women's

665
00:32:06,220 --> 00:32:10,809
bodies also seem to be better at moving

666
00:32:08,410 --> 00:32:13,300
warm blood away from our extremities to

667
00:32:10,809 --> 00:32:15,609
protect internal organs that's why our

668
00:32:13,299 --> 00:32:18,129
hands and feet can be three degrees

669
00:32:15,609 --> 00:32:20,649
cooler than men's and it seems

670
00:32:18,130 --> 00:32:23,140

counterintuitive but our extra layers of

671

00:32:20,650 --> 00:32:25,210

fat actually insulate our skin from our

672

00:32:23,140 --> 00:32:27,880

warm core creating the sensation of

673

00:32:25,210 --> 00:32:30,579

coldness that's also why larger people

674

00:32:27,880 --> 00:32:34,110

tend to feel the cold more and now for

675

00:32:30,579 --> 00:32:36,789

fast facts about our body temperatures

676

00:32:34,109 --> 00:32:39,250

women need to get much hotter than men

677

00:32:36,789 --> 00:32:41,139

before they start to sweat and even then

678

00:32:39,250 --> 00:32:44,109

they sweat much less which is probably

679

00:32:41,140 --> 00:32:46,150

linked to testosterone levels your body

680

00:32:44,109 --> 00:32:48,339

temperature cycles up and down by a

681

00:32:46,150 --> 00:32:50,290

degree or so throughout the day being

682

00:32:48,339 --> 00:32:52,869

lowest a couple of hours before you wake

683

00:32:50,289 --> 00:32:55,659

up and highest in the late afternoon our

684

00:32:52,869 --> 00:32:58,569

definition of a normal temperature came

685
00:32:55,660 --> 00:33:01,170
in 1851 from German physician Carl

686
00:32:58,569 --> 00:33:04,389
bundle ich who took armpit readings from

687
00:33:01,170 --> 00:33:06,700
25,000 patients and pregnancy and

688
00:33:04,390 --> 00:33:08,530
hormonal contraceptives can increase a

689
00:33:06,700 --> 00:33:13,360
woman's core temperature by one degree

690
00:33:08,529 --> 00:33:15,009
Celsius that's it for this week in

691
00:33:13,359 --> 00:33:17,259
science if you want to find out more

692
00:33:15,009 --> 00:33:21,519
about why women are cool and men are hot

693
00:33:17,259 --> 00:33:23,769
go to the RAF website RI aus org dot AE

694
00:33:21,519 --> 00:33:25,839
plus don't forget to follow us on

695
00:33:23,769 --> 00:33:28,179
twitter at our oils and like us on

696
00:33:25,839 --> 00:33:30,928
Facebook I'm cure and groom and we'll

697
00:33:28,179 --> 00:33:30,929
catch you next week

698
00:33:39,069 --> 00:33:52,939
on Maynard calm don't you hey you coming

699

00:33:51,079 --> 00:33:55,009
to you live from the exciting bleep

700

00:33:52,940 --> 00:33:57,440
point road frou-frou cafe it's mr. Tim

701

00:33:55,009 --> 00:33:59,299
Ferguson good morning good evening good

702

00:33:57,440 --> 00:34:01,370
afternoon and all the times in between

703

00:33:59,299 --> 00:34:02,720
and my name is Mina we've got it all

704

00:34:01,369 --> 00:34:04,669
here we've got dogs that we've got

705

00:34:02,720 --> 00:34:07,190
screaming babies we've got pouting

706

00:34:04,670 --> 00:34:09,500
waiters I've heard that ghosts can only

707

00:34:07,190 --> 00:34:12,320
travel in straight lines and they can't

708

00:34:09,500 --> 00:34:14,090
jump I know in Feng Shui you did usually

709

00:34:12,320 --> 00:34:16,519
a mirror or something and so the evil

710

00:34:14,090 --> 00:34:18,019
can't turn and get into your house they

711

00:34:16,519 --> 00:34:19,940
put something there we'll have you heard

712

00:34:18,019 --> 00:34:22,369
about ghosts and their physical ability

713

00:34:19,940 --> 00:34:25,670
I do know that they cannot jump they

714
00:34:22,369 --> 00:34:27,679
won't yep they refuse to jump actually

715
00:34:25,670 --> 00:34:30,349
recalcitrant that's their problem after

716
00:34:27,679 --> 00:34:32,299
a lifetime of jumping you don't want to

717
00:34:30,349 --> 00:34:34,489
spend the afterworld being asked

718
00:34:32,300 --> 00:34:37,010
repeatedly come on I would jump over

719
00:34:34,489 --> 00:34:39,109
that if you can walk through walls why

720
00:34:37,010 --> 00:34:41,930
would you want to jump there seem to be

721
00:34:39,110 --> 00:34:45,530
a set of rules that a bit great gray

722
00:34:41,929 --> 00:34:48,079
there one is ghost gazans do they happen

723
00:34:45,530 --> 00:34:50,300
I mean I don't want to be fighting

724
00:34:48,079 --> 00:34:52,639
myself in the afterworld where there is

725
00:34:50,300 --> 00:34:56,180
no orgasm there is no point in being

726
00:34:52,639 --> 00:34:58,219
alive without orgasms and daytime TV I

727
00:34:56,179 --> 00:35:07,599

want both of those in the afterworld on

728

00:34:58,219 --> 00:35:07,599

Maynard com do you hey you

729

00:35:19,088 --> 00:35:25,909

glorious bloom out katoomba i mean--can

730

00:35:23,208 --> 00:35:28,068

to rhyme with joe alabaster hello John

731

00:35:25,909 --> 00:35:31,219

hello Richard how are you I want some

732

00:35:28,068 --> 00:35:34,579

more evidence please haha and Peter bout

733

00:35:31,219 --> 00:35:36,650

at oh oh oh now I've come up here and

734

00:35:34,579 --> 00:35:38,539

you both been helping me today filming

735

00:35:36,650 --> 00:35:40,759

the vaccination chronicles bits of it

736

00:35:38,539 --> 00:35:43,130

and i'm pleased to say that it's almost

737

00:35:40,759 --> 00:35:45,349

all the filming's almost done now we had

738

00:35:43,130 --> 00:35:47,028

an interesting morning joe we filmed

739

00:35:45,349 --> 00:35:48,739

about half of it than we had to film it

740

00:35:47,028 --> 00:35:51,259

all again but you were very patient with

741

00:35:48,739 --> 00:35:52,969

me fluffing my lines or am I said it

742
00:35:51,259 --> 00:35:55,369
made me feel a little bit better about

743
00:35:52,969 --> 00:35:56,900
me fluffing my lines for my statement on

744
00:35:55,369 --> 00:36:00,170
the skeptics home frankly it was

745
00:35:56,900 --> 00:36:02,329
fantastic and then I it's a very serious

746
00:36:00,170 --> 00:36:06,229
topic I mean I was doing all these lines

747
00:36:02,329 --> 00:36:08,269
about childhood diseases and people you

748
00:36:06,228 --> 00:36:10,788
know have it it was very serious stuff

749
00:36:08,268 --> 00:36:12,108
and then looking at I'd fluff a line

750
00:36:10,789 --> 00:36:13,969
then you'd look at me and then you'd

751
00:36:12,108 --> 00:36:15,858
start to smirk behind the camera and I'd

752
00:36:13,969 --> 00:36:18,259
lose the plot but this is all part of

753
00:36:15,858 --> 00:36:21,318
filming I think it was actually a lot of

754
00:36:18,259 --> 00:36:22,909
fun I did enjoy it I'm happen please it

755
00:36:21,318 --> 00:36:24,199
was the course there was the job with

756
00:36:22,909 --> 00:36:25,909
the camera person and then microphone

757
00:36:24,199 --> 00:36:28,579
person to try and make the talent laughs

758
00:36:25,909 --> 00:36:29,659
while I was nothing serious I mean I

759
00:36:28,579 --> 00:36:31,068
don't know how many times I've something

760
00:36:29,659 --> 00:36:32,328
doing crazy antics while I'm trying to

761
00:36:31,068 --> 00:36:35,329
keep a straight face while talking to

762
00:36:32,329 --> 00:36:37,430
camera and we've that was in a lot of

763
00:36:35,329 --> 00:36:39,589
Parker than we came here to the what is

764
00:36:37,429 --> 00:36:41,868
it the Carrington Harrington a famous

765
00:36:39,588 --> 00:36:45,739
old hotel here in the Kitumba we're

766
00:36:41,869 --> 00:36:50,568
sitting out here on the was the balcony

767
00:36:45,739 --> 00:36:52,009
the veranda the the veranda um another

768
00:36:50,568 --> 00:36:53,630
thing that occurred to me and I always

769
00:36:52,009 --> 00:36:55,309
forget this but always remember again

770

00:36:53,630 --> 00:36:57,349
when I'm filming is you start to do some

771
00:36:55,309 --> 00:36:59,509
something to camera and then a plane

772
00:36:57,349 --> 00:37:01,579
comes then the dog box and then the

773
00:36:59,509 --> 00:37:03,679
truck decides to go up the hill and then

774
00:37:01,579 --> 00:37:06,890
and then another train comes along as

775
00:37:03,679 --> 00:37:09,440
I'm even now we've just finished filming

776
00:37:06,889 --> 00:37:11,929
a segment with Peter and about two

777
00:37:09,440 --> 00:37:15,360
minutes later

778
00:37:11,929 --> 00:37:19,559
this music appears from nowhere buskers

779
00:37:15,360 --> 00:37:23,190
with drums down on the street it's all

780
00:37:19,559 --> 00:37:24,690
part of filming and you were relating a

781
00:37:23,190 --> 00:37:25,860
story Peter which you can tell our

782
00:37:24,690 --> 00:37:28,860
listeners now then give them a sneak

783
00:37:25,860 --> 00:37:31,769
preview about we were talking about a

784
00:37:28,860 --> 00:37:33,150

time when polio is a real menacing our

785

00:37:31,769 --> 00:37:35,880

society and you were telling us a story

786

00:37:33,150 --> 00:37:37,829

about kids hurting their legs yeah well

787

00:37:35,880 --> 00:37:40,619

I'm some old enough remember when Polly

788

00:37:37,829 --> 00:37:43,259

I was a dreadful scare my cousin Phillip

789

00:37:40,619 --> 00:37:45,059

its top of me is younger than me he fell

790

00:37:43,260 --> 00:37:47,340

over one day and heard his leg his

791

00:37:45,059 --> 00:37:49,529

parents panicked because first thought

792

00:37:47,340 --> 00:37:51,930

anybody's mind palio took the doctor he

793

00:37:49,530 --> 00:37:53,400

was ok two days later his very best

794

00:37:51,929 --> 00:37:55,859

friend Frank he lived two streets away

795

00:37:53,400 --> 00:37:57,990

same experience fell over hurt his leg

796

00:37:55,860 --> 00:38:00,539

his parents took him to the doctor he

797

00:37:57,989 --> 00:38:02,279

had polio Frank died in 2012 he spent

798

00:38:00,539 --> 00:38:05,099

his life in a wheelchair people forget

799

00:38:02,280 --> 00:38:06,840

how bad those diseases why were because

800

00:38:05,099 --> 00:38:09,029

they haven't seen them I've seen people

801

00:38:06,840 --> 00:38:10,950

in iron lungs I've seen children in my

802

00:38:09,030 --> 00:38:12,660

primary school class will be had to

803

00:38:10,949 --> 00:38:14,849

modify a games because their calipers on

804

00:38:12,659 --> 00:38:17,819

their legs I don't want to ever see this

805

00:38:14,849 --> 00:38:19,739

stuff come back yeah and now that we

806

00:38:17,820 --> 00:38:21,120

have we can be thankful now that they

807

00:38:19,739 --> 00:38:22,379

found the answer to some of these things

808

00:38:21,119 --> 00:38:25,319

they've got her these dreadful diseases

809

00:38:22,380 --> 00:38:27,240

that they no longer a problem polio in

810

00:38:25,320 --> 00:38:28,769

fact because it's only carried by humans

811

00:38:27,239 --> 00:38:31,199

can be rude can be wiped out of the way

812

00:38:28,769 --> 00:38:33,389

the smallpox was and hopefully will do

813
00:38:31,199 --> 00:38:35,879
it but suppose we walked out 2003 yes

814
00:38:33,389 --> 00:38:37,619
Edinburgh yes but it keeps coming back

815
00:38:35,880 --> 00:38:39,059
and at the moment it's really only bad

816
00:38:37,619 --> 00:38:40,199
in two countries but the trouble is

817
00:38:39,059 --> 00:38:42,119
they're two countries which have

818
00:38:40,199 --> 00:38:44,579
refugees coming out of them you know

819
00:38:42,119 --> 00:38:46,230
other parts of the world so hopefully

820
00:38:44,579 --> 00:38:49,230
it'll will never see it come back the

821
00:38:46,230 --> 00:38:50,340
way it ever did but we're only we can

822
00:38:49,230 --> 00:38:53,070
only be a year away if we stop

823
00:38:50,340 --> 00:38:55,410
vaccinating now and we still get polio

824
00:38:53,070 --> 00:38:57,750
vaccination in Australia if we were to

825
00:38:55,409 --> 00:38:59,190
stop up now we could have epidemics of

826
00:38:57,750 --> 00:39:00,480
polio back in Australia in the other

827

00:38:59,190 --> 00:39:02,880
states within a year yeah yeah I

828
00:39:00,480 --> 00:39:05,490
wouldn't at all be surprised if that was

829
00:39:02,880 --> 00:39:07,170
that could happen and incidentally it's

830
00:39:05,489 --> 00:39:08,339
a disease with lasting consequences so

831
00:39:07,170 --> 00:39:10,559
it's not something if you get and you

832
00:39:08,340 --> 00:39:12,780
ought to get over it or you Disick will

833
00:39:10,559 --> 00:39:14,340
you get it it's something which can

834
00:39:12,780 --> 00:39:15,960
protect you for life because your power

835
00:39:14,340 --> 00:39:17,650
paralysis in your lungs which is why

836
00:39:15,960 --> 00:39:20,250
they are lungs within you and I

837
00:39:17,650 --> 00:39:22,380
ago you and I were in Melbourne for a

838
00:39:20,250 --> 00:39:24,880
skeptical event at the melbourne museum

839
00:39:22,380 --> 00:39:27,039
site week Boris this week and we were

840
00:39:24,880 --> 00:39:29,140
both there on the skeptic the Victorian

841
00:39:27,039 --> 00:39:30,609

skeptics had to stand I remember and at

842

00:39:29,139 --> 00:39:32,528

some stage during the proceedings you

843

00:39:30,608 --> 00:39:35,259

and I ducked away and had a look at the

844

00:39:32,528 --> 00:39:37,559

museum and we found in a museum and iron

845

00:39:35,260 --> 00:39:39,579

lung they actually had an exhibition of

846

00:39:37,559 --> 00:39:42,579

specific about polio they had an iron

847

00:39:39,579 --> 00:39:44,200

lung which had been donated by somebody

848

00:39:42,579 --> 00:39:46,900

who and the thing had been painted up in

849

00:39:44,199 --> 00:39:48,338

red and black because the person who was

850

00:39:46,900 --> 00:39:50,170

in it was a follower of the Essendon

851

00:39:48,338 --> 00:39:51,699

Football team and his parents had

852

00:39:50,170 --> 00:39:53,139

painted up in his football team colors

853

00:39:51,699 --> 00:39:54,909

and the football team had contributed to

854

00:39:53,139 --> 00:39:56,348

the cost of running it if I had laid

855

00:39:54,909 --> 00:39:58,389

calipers and all sorts of things in this

856
00:39:56,349 --> 00:40:01,000
exhibition know so it was such a

857
00:39:58,389 --> 00:40:03,848
poignant moment to think that we had to

858
00:40:01,000 --> 00:40:07,329
go to a museum to see an iron lung and

859
00:40:03,849 --> 00:40:10,359
these things wants just part of everyday

860
00:40:07,329 --> 00:40:12,789
life almost or the society knew about

861
00:40:10,358 --> 00:40:14,980
them being but I had them I didn't learn

862
00:40:12,789 --> 00:40:16,299
to swim when I was a child and the whole

863
00:40:14,980 --> 00:40:18,369
cohort of children didn't learn to swim

864
00:40:16,298 --> 00:40:19,900
because swimming pools were seen as a

865
00:40:18,369 --> 00:40:21,760
place where Polly I word spread that

866
00:40:19,900 --> 00:40:24,010
parent wouldn't take their children to

867
00:40:21,760 --> 00:40:26,528
public swimming pools and so we had

868
00:40:24,010 --> 00:40:27,609
throughout several years if you want to

869
00:40:26,528 --> 00:40:30,130
learn to swim you had to go to a private

870
00:40:27,608 --> 00:40:31,538
school somewhere or I've made League of

871
00:40:30,130 --> 00:40:33,068
the butcher that you could not go for

872
00:40:31,539 --> 00:40:34,720
the public swimming pool he could if

873
00:40:33,068 --> 00:40:36,429
nobody did because of this fear that's

874
00:40:34,719 --> 00:40:38,439
that's that's astonishing things you

875
00:40:36,429 --> 00:40:40,419
don't even think about now you've got a

876
00:40:38,440 --> 00:40:43,358
couple of young kids who I just met

877
00:40:40,420 --> 00:40:46,210
today and they're the Lightwood Oscars

878
00:40:43,358 --> 00:40:48,759
such a chatterbox he's lovely Oscar is

879
00:40:46,210 --> 00:40:51,909
four and Daphne is three years old just

880
00:40:48,760 --> 00:40:55,089
yes I did absolutely delightful kids but

881
00:40:51,909 --> 00:40:56,889
as a as a mum of some young kids

882
00:40:55,088 --> 00:40:58,838
yourself and we know when you hear these

883
00:40:56,889 --> 00:41:01,690
stories and I know that when I was doing

884

00:40:58,838 --> 00:41:04,000
my lines to camera yeah and when you

885
00:41:01,690 --> 00:41:06,579
weren't smirking which we did I have to

886
00:41:04,000 --> 00:41:07,389
admit we got the guilt because it's

887
00:41:06,579 --> 00:41:09,190
something that you do when you're

888
00:41:07,389 --> 00:41:10,629
filming but I could look at the look on

889
00:41:09,190 --> 00:41:13,599
your face when I was delivering some

890
00:41:10,630 --> 00:41:15,700
lines about there was an article I read

891
00:41:13,599 --> 00:41:19,000
about whooping cough yeah and a child

892
00:41:15,699 --> 00:41:21,489
coughing and breaking your neck and I

893
00:41:19,000 --> 00:41:24,159
can see the look on your face it's

894
00:41:21,489 --> 00:41:27,038
difficult I mean before having children

895
00:41:24,159 --> 00:41:28,338
I was rather affected by these things

896
00:41:27,039 --> 00:41:33,049
anyway

897
00:41:28,338 --> 00:41:36,259
but yeah it's maybe a bit more personal

898
00:41:33,048 --> 00:41:38,748

now it's really hard um but your kids

899

00:41:36,259 --> 00:41:40,909

were born up here yes they were actually

900

00:41:38,748 --> 00:41:42,618

and that was one of my worries i'll

901

00:41:40,909 --> 00:41:43,998

admit having children in the blue

902

00:41:42,619 --> 00:41:46,088

mountains because i was quite aware of

903

00:41:43,998 --> 00:41:48,468

the low vaccination rates up here

904

00:41:46,088 --> 00:41:49,940

particularly when they were under six

905

00:41:48,469 --> 00:41:51,829

months and not fully immunized for

906

00:41:49,940 --> 00:41:54,858

whooping cough you were terrifying did

907

00:41:51,829 --> 00:41:57,019

you have anybody putting any sort of

908

00:41:54,858 --> 00:41:58,670

information your anti-vaccination you

909

00:41:57,018 --> 00:42:03,528

information your way being up here or

910

00:41:58,670 --> 00:42:07,969

was it well um no I I was already very

911

00:42:03,528 --> 00:42:10,009

much probe ax um have been throughout my

912

00:42:07,969 --> 00:42:12,619

life actually because when I was a child

913
00:42:10,009 --> 00:42:14,028
I knew a chap who had polio and wasn't

914
00:42:12,619 --> 00:42:20,269
an iron lung which is a bit of a rarity

915
00:42:14,028 --> 00:42:24,079
um but yeah no I i have come across anti

916
00:42:20,268 --> 00:42:25,758
vax people none of them have really

917
00:42:24,079 --> 00:42:28,009
tried to bring it up with me I don't

918
00:42:25,759 --> 00:42:31,599
know if it's because they know that I am

919
00:42:28,009 --> 00:42:35,119
an advocate for vaccination of here um

920
00:42:31,599 --> 00:42:38,119
but I had a falling out with somebody in

921
00:42:35,119 --> 00:42:42,130
my mother's group who was very much

922
00:42:38,119 --> 00:42:44,930
insistent that Meryl stories views

923
00:42:42,130 --> 00:42:46,400
specifically meritorious views should be

924
00:42:44,929 --> 00:42:48,649
heard and that there are two sides to

925
00:42:46,400 --> 00:42:51,200
the story and we had a little bit of

926
00:42:48,650 --> 00:42:56,298
awkwardness in her mother's group now

927
00:42:51,199 --> 00:42:59,028
after that um also my son is one of his

928
00:42:56,298 --> 00:43:00,889
best friends um is from a family that

929
00:42:59,028 --> 00:43:03,228
doesn't vaccinate and that's a very

930
00:43:00,889 --> 00:43:05,960
strange thing to negotiate socially

931
00:43:03,228 --> 00:43:09,439
really um I want him to have his

932
00:43:05,960 --> 00:43:11,539
friendships and such so we we just tend

933
00:43:09,440 --> 00:43:14,059
not to speak about it um the other

934
00:43:11,539 --> 00:43:16,460
family is aware of my position and why I

935
00:43:14,059 --> 00:43:19,190
hold it and I'm aware of theirs and why

936
00:43:16,460 --> 00:43:20,989
they hold it and you know it's your

937
00:43:19,190 --> 00:43:23,989
birth of this area up in the Blue

938
00:43:20,989 --> 00:43:25,338
Mountains Oh what is it about this area

939
00:43:23,989 --> 00:43:27,858
I mean it's it's got a reputation

940
00:43:25,338 --> 00:43:29,358
friendly being a little bit what's the

941

00:43:27,858 --> 00:43:33,078
word I'm looking for alternatively

942
00:43:29,358 --> 00:43:35,328
hippie-ish and why is that I have no I'm

943
00:43:33,079 --> 00:43:38,430
actually um again I've also all muck

944
00:43:35,329 --> 00:43:40,269
left you had been a real genuine hippie

945
00:43:38,429 --> 00:43:42,879
which is probably why I end up in the

946
00:43:40,269 --> 00:43:45,190
Blue Mountains I don't know it's

947
00:43:42,880 --> 00:43:46,869
obviously a lifestyle thing then we've

948
00:43:45,190 --> 00:43:49,000
got the weed of magic festival coming up

949
00:43:46,869 --> 00:43:50,829
shortly will our local witches will come

950
00:43:49,000 --> 00:43:54,130
out into the street met cast spells on

951
00:43:50,829 --> 00:43:56,710
people and so forth but it's interesting

952
00:43:54,130 --> 00:43:58,510
that I haven't actually seen the over 80

953
00:43:56,710 --> 00:44:01,030
vaccination activity here hoping to be

954
00:43:58,510 --> 00:44:03,850
here for five and a half years but this

955
00:44:01,030 --> 00:44:05,830

postcode were in near 2780 is the second

956

00:44:03,849 --> 00:44:07,929

lowest rate of vaccinations at every

957

00:44:05,829 --> 00:44:10,420

party postcode in Australia what's the

958

00:44:07,929 --> 00:44:12,519

first you know now Lamar balanar i think

959

00:44:10,420 --> 00:44:15,130

is no balanus yeah i know that on the

960

00:44:12,519 --> 00:44:16,630

north northern curve rivers and there's

961

00:44:15,130 --> 00:44:18,309

a root development that is in an area

962

00:44:16,630 --> 00:44:19,780

where there was an active highly

963

00:44:18,309 --> 00:44:21,549

accurate any vaccinations organisation

964

00:44:19,780 --> 00:44:25,570

running I used to go to Sunday school

965

00:44:21,550 --> 00:44:26,920

camping downer Oh many years ago aha we

966

00:44:25,570 --> 00:44:30,730

won't talk about sunday school till

967

00:44:26,920 --> 00:44:32,880

about Oh stone Devils I don't know

968

00:44:30,730 --> 00:44:34,929

haven't seen it but certainly up here I

969

00:44:32,880 --> 00:44:37,059

might jog about being the gluten-free

970
00:44:34,929 --> 00:44:40,059
capital of the world its food fads

971
00:44:37,059 --> 00:44:43,329
everywhere yeah there's some crystals

972
00:44:40,059 --> 00:44:45,309
and me are crispy everywhere yep so

973
00:44:43,329 --> 00:44:47,108
we've got chops with crystal sure we're

974
00:44:45,309 --> 00:44:49,090
right near the main street just looking

975
00:44:47,108 --> 00:44:50,949
down from our viewer here on the vendor

976
00:44:49,090 --> 00:44:52,840
the Carrington I can see the main street

977
00:44:50,949 --> 00:44:54,009
I'm sure that our crystal shops and all

978
00:44:52,840 --> 00:44:56,410
sorts of things down there are many

979
00:44:54,010 --> 00:44:58,200
Chris in fact when Richard's talked

980
00:44:56,409 --> 00:45:01,358
before about the music that started up

981
00:44:58,199 --> 00:45:03,460
just it was a very first thing was one

982
00:45:01,358 --> 00:45:05,529
of those Indian drums that people talk

983
00:45:03,460 --> 00:45:08,769
about the ends of if you do any higher

984
00:45:05,530 --> 00:45:10,060
accretion of stuff so yes it is a it's

985
00:45:08,769 --> 00:45:11,679
an alternative lifestyle place which

986
00:45:10,059 --> 00:45:14,049
also was the case with the Northern

987
00:45:11,679 --> 00:45:15,549
Rivers New South Wales it was a Troy

988
00:45:14,050 --> 00:45:18,310
change place but we'll retired and went

989
00:45:15,550 --> 00:45:20,470
up there I mean nimbin must was there

990
00:45:18,309 --> 00:45:22,059
meant nimbin probably now is nothing

991
00:45:20,469 --> 00:45:23,769
like I was back in the olden days but

992
00:45:22,059 --> 00:45:25,358
now I think it was compulsory to smoke

993
00:45:23,769 --> 00:45:26,710
weed when he went on him but mother 3

994
00:45:25,358 --> 00:45:28,989
about of the town when I laugh when tlle

995
00:45:26,710 --> 00:45:32,920
I left quickly because obvious I

996
00:45:28,989 --> 00:45:35,079
wouldn't do anything a little that so I

997
00:45:32,920 --> 00:45:37,480
think that's part of it the area of has

998

00:45:35,079 --> 00:45:39,279
attracted people yeah because there is a

999
00:45:37,480 --> 00:45:41,650
certain last part of the area and it's

1000
00:45:39,280 --> 00:45:43,420
away from Sydney dick but you know so

1001
00:45:41,650 --> 00:45:45,309
saying I came up here on the train this

1002
00:45:43,420 --> 00:45:47,130
morning from Sydney and it took me less

1003
00:45:45,309 --> 00:45:50,340
than two hours knows yeah

1004
00:45:47,130 --> 00:45:51,750
it's not a long trip adore really it's

1005
00:45:50,340 --> 00:45:53,400
not a long trip for some lives in Sidon

1006
00:45:51,750 --> 00:45:56,880
him so it's an awfully long trip you

1007
00:45:53,400 --> 00:45:58,289
live in France or someone like that i

1008
00:45:56,880 --> 00:45:59,820
keep reading novels with people say they

1009
00:45:58,289 --> 00:46:02,820
have to travel first class to go from

1010
00:45:59,820 --> 00:46:05,070
from Geneva to burn because it's me out

1011
00:46:02,820 --> 00:46:06,420
a half and the triumphal where we do

1012
00:46:05,070 --> 00:46:07,920

that they go to work here I've been

1013

00:46:06,420 --> 00:46:10,200

trained was quite comfortable in purple

1014

00:46:07,920 --> 00:46:12,769

seeds joke Oh excellent oh look almost

1015

00:46:10,199 --> 00:46:15,359

as purple is your hair today I must say

1016

00:46:12,769 --> 00:46:17,849

that's our new renovated trains the ones

1017

00:46:15,360 --> 00:46:18,930

with the purple sleeps yes we hope we we

1018

00:46:17,849 --> 00:46:21,119

actually tweet about that when we get

1019

00:46:18,929 --> 00:46:23,279

purple suits yeah I saw that Jojo what

1020

00:46:21,119 --> 00:46:26,429

you I'd watch your tweed handle Joe it's

1021

00:46:23,280 --> 00:46:29,130

at Joe alabaster one word and red bay

1022

00:46:26,429 --> 00:46:31,769

it's at Red bank's com also one word

1023

00:46:29,130 --> 00:46:33,240

when your website of course is ratbags

1024

00:46:31,769 --> 00:46:37,050

calm but that's got a dot in it not the

1025

00:46:33,239 --> 00:46:39,989

word do tooi and you know you've been

1026

00:46:37,050 --> 00:46:42,930

you've been doing ratbags con for years

1027
00:46:39,989 --> 00:46:46,469
even before I met you 15 years I started

1028
00:46:42,929 --> 00:46:47,940
started in March 1999 and the original

1029
00:46:46,469 --> 00:46:50,069
idea was to simply list the thousand

1030
00:46:47,940 --> 00:46:52,110
places I didn't like that's right and so

1031
00:46:50,070 --> 00:46:54,000
so for the idea what and actually do

1032
00:46:52,110 --> 00:46:55,829
like ticked over on the thirty-first

1033
00:46:54,000 --> 00:46:59,250
December night Oh 99 when the world was

1034
00:46:55,829 --> 00:47:03,659
about to end and I added the thousandth

1035
00:46:59,250 --> 00:47:05,190
person there some significant things the

1036
00:47:03,659 --> 00:47:10,019
Estonian vaccination network was number

1037
00:47:05,190 --> 00:47:11,880
one pat robertson's crazy christian

1038
00:47:10,019 --> 00:47:17,250
coalition while remark by coincidence

1039
00:47:11,880 --> 00:47:19,590
came in at number 666 the style of place

1040
00:47:17,250 --> 00:47:21,360
is this list of a website yeah yeah and

1041
00:47:19,590 --> 00:47:22,890
then I started adding comments to it and

1042
00:47:21,360 --> 00:47:24,150
then I started become a magazine yes

1043
00:47:22,889 --> 00:47:25,920
then they come and actually pain in the

1044
00:47:24,150 --> 00:47:27,119
neck like all these things because

1045
00:47:25,920 --> 00:47:29,400
you've got to keep doing it all the time

1046
00:47:27,119 --> 00:47:31,650
you do it's like the skeptics don't

1047
00:47:29,400 --> 00:47:33,599
really ever do it every week and looking

1048
00:47:31,650 --> 00:47:36,769
on the stem there on the steps I can see

1049
00:47:33,599 --> 00:47:40,639
a couple little kids Oh they've gone

1050
00:47:36,769 --> 00:47:43,139
it's all right you can come up now Oscar

1051
00:47:40,639 --> 00:47:45,119
that all here they come I should point

1052
00:47:43,139 --> 00:47:47,400
out the only joke about it being a pain

1053
00:47:45,119 --> 00:47:48,869
because I received hate mail but also

1054
00:47:47,400 --> 00:47:50,940
have a lot of complementary stuff yeah

1055

00:47:48,869 --> 00:47:51,779
and if I wasn't getting that of Orden

1056
00:47:50,940 --> 00:47:53,940
getting the people looking at it I

1057
00:47:51,780 --> 00:47:55,380
wouldn't bother doing it so but I do get

1058
00:47:53,940 --> 00:47:57,119
the response so i get thousand several

1059
00:47:55,380 --> 00:47:59,160
thousand things i take a look at it it's

1060
00:47:57,119 --> 00:48:00,239
worth doing what i'd like to do is

1061
00:47:59,159 --> 00:48:02,519
figure out how can make a little

1062
00:48:00,239 --> 00:48:04,529
well that's that's that's a question we

1063
00:48:02,519 --> 00:48:06,809
all ask now these two kids have come

1064
00:48:04,530 --> 00:48:10,800
back up come up come on it's your hello

1065
00:48:06,809 --> 00:48:14,190
what's that what's that you're going to

1066
00:48:10,800 --> 00:48:16,769
say hello death I'm say hello now you

1067
00:48:14,190 --> 00:48:19,519
say he'll see that big blue one you say

1068
00:48:16,769 --> 00:48:22,320
hello to that hello the microphone is

1069
00:48:19,519 --> 00:48:23,940

she's listening she put her ear up and

1070

00:48:22,320 --> 00:48:28,920

she was Oscar come over and you want to

1071

00:48:23,940 --> 00:48:30,809

say hello Oscar this is like never work

1072

00:48:28,920 --> 00:48:33,480

with children and animals because we're

1073

00:48:30,809 --> 00:48:35,789

the chatterbox Oscar is now at least now

1074

00:48:33,480 --> 00:48:40,619

gosh do you want to say hello Oscar

1075

00:48:35,789 --> 00:48:42,599

gonna say hello say hello hello well

1076

00:48:40,619 --> 00:48:47,460

yeah we got something do you wanna say

1077

00:48:42,599 --> 00:48:49,139

hello say hello hey you don't have to

1078

00:48:47,460 --> 00:48:55,559

touch it just say in your big voice

1079

00:48:49,139 --> 00:48:57,629

hello no downside isn't that always the

1080

00:48:55,559 --> 00:48:59,989

way but she's absolutely adorable what

1081

00:48:57,630 --> 00:49:03,390

lovely big blue eyes she's looking at me

1082

00:48:59,989 --> 00:49:05,059

and of course and you've got blue eyes

1083

00:49:03,389 --> 00:49:08,730

too and of course she's fully vaccinated

1084
00:49:05,059 --> 00:49:12,210
they are both fully vaccinated actually

1085
00:49:08,730 --> 00:49:13,530
had I'm Oscars chicken pox was done

1086
00:49:12,210 --> 00:49:15,869
slightly early because there was an

1087
00:49:13,530 --> 00:49:18,150
outbreak in the area so I had him done

1088
00:49:15,869 --> 00:49:21,469
six months before schedule which is

1089
00:49:18,150 --> 00:49:23,880
acceptable by the jps standard so yeah

1090
00:49:21,469 --> 00:49:26,730
there wasn't a bad outbreak in the area

1091
00:49:23,880 --> 00:49:28,349
and I was a bit concerned she's just

1092
00:49:26,730 --> 00:49:31,260
adorable well thanks everybody it was a

1093
00:49:28,349 --> 00:49:33,239
great day of filming we had a few stops

1094
00:49:31,260 --> 00:49:34,680
and starts and we we feared we lost all

1095
00:49:33,239 --> 00:49:38,309
the audio at one stage but it was all

1096
00:49:34,679 --> 00:49:40,500
good in here and yeah pretty soon now I

1097
00:49:38,309 --> 00:49:42,659
hope to have that documentary unleashed

1098
00:49:40,500 --> 00:49:44,280
at least on the world to get up the

1099
00:49:42,659 --> 00:49:46,440
noses of the anti-vaxxers everywhere

1100
00:49:44,280 --> 00:49:49,580
that's always a good day when you monoi

1101
00:49:46,440 --> 00:49:49,579
a native acts are our second

1102
00:50:05,018 --> 00:50:09,169
hey this is Jay novella from the

1103
00:50:07,518 --> 00:50:11,088
skeptics guide to the universe podcast

1104
00:50:09,170 --> 00:50:12,920
did you know that there are thousands of

1105
00:50:11,088 --> 00:50:14,659
skeptical reports interviews and

1106
00:50:12,920 --> 00:50:17,358
investigations going back to nineteen

1107
00:50:14,659 --> 00:50:20,598
eighty one free to download just visit w

1108
00:50:17,358 --> 00:50:22,518
WC optics com a you click the

1109
00:50:20,599 --> 00:50:24,499
publications link and enjoy almost every

1110
00:50:22,518 --> 00:50:26,449
back issue of the skeptic the journal

1111
00:50:24,498 --> 00:50:28,009
from Australian skeptics you can also

1112

00:50:26,449 --> 00:50:30,288
subscribe online and get the latest

1113
00:50:28,009 --> 00:50:32,329
digital or hard copy of this the world's

1114
00:50:30,289 --> 00:50:35,989
second oldest skeptical magazine that's

1115
00:50:32,329 --> 00:50:50,028
ww skeptics com a you or just google

1116
00:50:35,989 --> 00:50:51,490
Australian skeptics is my not spooky

1117
00:50:50,028 --> 00:50:54,599
action

1118
00:50:51,489 --> 00:50:54,599
at the distance

1119
00:50:54,739 --> 00:51:00,750
I'm speaking with dr. Peter Davies a for

1120
00:50:57,809 --> 00:51:03,269
macular degeneration Awareness Week what

1121
00:51:00,750 --> 00:51:06,719
is your specialty dr. Davies I'm on a

1122
00:51:03,269 --> 00:51:09,239
retinal surgeon which means that I do

1123
00:51:06,719 --> 00:51:11,250
surgery on the retina on the macula and

1124
00:51:09,239 --> 00:51:13,889
the back of the eye as well as that I do

1125
00:51:11,250 --> 00:51:15,539
a lot of cataracts and regimes and other

1126
00:51:13,889 --> 00:51:18,569

types of surgeries that people

1127

00:51:15,539 --> 00:51:20,219

understand is associated I can I ask you

1128

00:51:18,570 --> 00:51:22,410

what attracted you to that area of

1129

00:51:20,219 --> 00:51:24,929

medicine what made you specialize in

1130

00:51:22,409 --> 00:51:28,289

that area other than that UK at the time

1131

00:51:24,929 --> 00:51:30,000

and it's usually doctors you have the

1132

00:51:28,289 --> 00:51:32,250

opportunity of working with there was a

1133

00:51:30,000 --> 00:51:35,579

fairly inspirational doctor called dr.

1134

00:51:32,250 --> 00:51:37,559

Robert Johnson and I watched him doing

1135

00:51:35,579 --> 00:51:39,960

retinal surgeries and I thought wow this

1136

00:51:37,559 --> 00:51:41,190

is this is a great thing to do when when

1137

00:51:39,960 --> 00:51:42,780

I think of the retina I think of it's

1138

00:51:41,190 --> 00:51:44,610

something that if it's damaged you can't

1139

00:51:42,780 --> 00:51:48,060

normally fix but you can obviously do a

1140

00:51:44,610 --> 00:51:50,400

lot with it that I am ignorant of yes

1141
00:51:48,059 --> 00:51:52,500
your 10 if you think of the eye as a

1142
00:51:50,400 --> 00:51:54,630
golf ball with the lens at the front and

1143
00:51:52,500 --> 00:51:56,099
a lens in the middle and then think of

1144
00:51:54,630 --> 00:51:58,110
the back of the golf ball that's where

1145
00:51:56,099 --> 00:51:59,940
the retina is so the retina is like the

1146
00:51:58,110 --> 00:52:01,680
filming your camera it captures the

1147
00:51:59,940 --> 00:52:05,039
light and sends the signals to the brain

1148
00:52:01,679 --> 00:52:07,649
and the retina has a central part in it

1149
00:52:05,039 --> 00:52:09,659
called the macula so we can do several

1150
00:52:07,650 --> 00:52:13,380
things with the retina we can treat

1151
00:52:09,659 --> 00:52:15,359
macular disease and we can also reattach

1152
00:52:13,380 --> 00:52:17,730
the retina sometimes the retina lifts

1153
00:52:15,360 --> 00:52:19,620
away from the back of the eye that's

1154
00:52:17,730 --> 00:52:22,110
what we call a retinal detachment and we

1155
00:52:19,619 --> 00:52:23,569
can put that back with surgery is there

1156
00:52:22,110 --> 00:52:26,430
something there's the holy grail of

1157
00:52:23,570 --> 00:52:30,000
retina surgery that can't yet be done

1158
00:52:26,429 --> 00:52:32,460
but you'd hope 11 can be one day I think

1159
00:52:30,000 --> 00:52:35,699
we all want to be able to get into the

1160
00:52:32,460 --> 00:52:38,280
genetic code of the cells at the back of

1161
00:52:35,699 --> 00:52:40,980
the eye and reprogram the genetics

1162
00:52:38,280 --> 00:52:45,060
because the problem with macular

1163
00:52:40,980 --> 00:52:47,429
degeneration is partly a genetic break

1164
00:52:45,059 --> 00:52:50,549
down the cells just stopped working the

1165
00:52:47,429 --> 00:52:53,489
way they was designed to do and there's

1166
00:52:50,550 --> 00:52:54,900
been lots of research over 20 years or

1167
00:52:53,489 --> 00:52:58,500
more as long as I've been doing

1168
00:52:54,900 --> 00:53:01,500
ophthalmology to try and get in and

1169

00:52:58,500 --> 00:53:03,690
replace or repair or change the genetics

1170
00:53:01,500 --> 00:53:05,280
in the cells at the back of the eye is

1171
00:53:03,690 --> 00:53:07,470
partial is the reason for this because

1172
00:53:05,280 --> 00:53:08,160
the I wasn't designed as to last as long

1173
00:53:07,469 --> 00:53:13,649
as we

1174
00:53:08,159 --> 00:53:16,710
now yes several theories um finally the

1175
00:53:13,650 --> 00:53:19,530
AI has very good protective mechanisms

1176
00:53:16,710 --> 00:53:21,720
built into it instance UV light from the

1177
00:53:19,530 --> 00:53:25,048
phone or from welding that gets absorbed

1178
00:53:21,719 --> 00:53:27,808
in the very front layer of the eye but

1179
00:53:25,048 --> 00:53:29,788
the blue frequency like to carry a lot

1180
00:53:27,809 --> 00:53:32,099
of energy now some of that like it's

1181
00:53:29,789 --> 00:53:34,500
absorbed in the lens as you get older

1182
00:53:32,099 --> 00:53:37,530
the lens becomes a bit yellow and then

1183
00:53:34,500 --> 00:53:42,449

in the macula there is actually proteins

1184

00:53:37,530 --> 00:53:45,510

that absorb the high energy and when we

1185

00:53:42,449 --> 00:53:47,909

ask patients to take lutein as a vitamin

1186

00:53:45,510 --> 00:53:51,000

supplement we think that that helps to

1187

00:53:47,909 --> 00:53:53,489

increase the pigments in the macula but

1188

00:53:51,000 --> 00:53:55,739

yeah I really eyes do wear out with age

1189

00:53:53,489 --> 00:53:59,068

and that's the fundamental problem of

1190

00:53:55,739 --> 00:54:01,078

macular degeneration so it is usually

1191

00:53:59,068 --> 00:54:02,969

genetic but is there anything we can do

1192

00:54:01,079 --> 00:54:05,068

throughout our life to avoid damage to

1193

00:54:02,969 --> 00:54:06,358

the macula yeah there certainly is as

1194

00:54:05,068 --> 00:54:08,429

you point out you can't change your

1195

00:54:06,358 --> 00:54:11,429

jeans you can't change your pants but

1196

00:54:08,429 --> 00:54:13,259

you can limit your risk the first thing

1197

00:54:11,429 --> 00:54:16,769

is to avoid cigarette smoke that's

1198
00:54:13,260 --> 00:54:19,829
really really important cigarette smoke

1199
00:54:16,769 --> 00:54:22,259
contains toxins that harm the protective

1200
00:54:19,829 --> 00:54:24,390
mechanisms at the back of the eye if you

1201
00:54:22,260 --> 00:54:26,640
smoke you're twice as likely to get

1202
00:54:24,389 --> 00:54:29,159
macular degeneration and get it younger

1203
00:54:26,639 --> 00:54:31,558
and get a more serious version of it so

1204
00:54:29,159 --> 00:54:34,139
that's really important the other thing

1205
00:54:31,559 --> 00:54:37,650
is to have a really healthy diet and

1206
00:54:34,139 --> 00:54:41,159
lifestyle eating plenty of green leafy

1207
00:54:37,650 --> 00:54:44,338
vegetables and fresh fruit and these

1208
00:54:41,159 --> 00:54:47,219
things can be discussed with your GP and

1209
00:54:44,338 --> 00:54:49,588
a nutritional if you see one but it's

1210
00:54:47,219 --> 00:54:52,739
very important that your food is fresh

1211
00:54:49,588 --> 00:54:55,078
and healthy and tell me dr. Peter Davies

1212
00:54:52,739 --> 00:54:57,000
I've heard optometrists say that you can

1213
00:54:55,079 --> 00:54:58,710
look into the eye and the eye tends to

1214
00:54:57,000 --> 00:55:01,349
mirror the way the cardiovascular system

1215
00:54:58,710 --> 00:55:04,619
is throughout the entire body is that

1216
00:55:01,349 --> 00:55:06,960
necessarily true it is true when you

1217
00:55:04,619 --> 00:55:08,818
look at the back of the eye you directly

1218
00:55:06,960 --> 00:55:11,639
see blood vessels and blood vessels

1219
00:55:08,818 --> 00:55:14,960
apart of the cardiovascular system now

1220
00:55:11,639 --> 00:55:18,150
actually in our GPS do a very good job

1221
00:55:14,960 --> 00:55:21,480
managing things like high blood pressure

1222
00:55:18,150 --> 00:55:21,990
and high cholesterol so as I doctors we

1223
00:55:21,480 --> 00:55:25,230
don't

1224
00:55:21,989 --> 00:55:27,299
be as much change in the back of the eye

1225
00:55:25,230 --> 00:55:29,159
from high blood pressure and high crest

1226

00:55:27,300 --> 00:55:32,340
are we do occasionally but nothing like

1227
00:55:29,159 --> 00:55:34,829
we used to see but diabetes attacks

1228
00:55:32,340 --> 00:55:37,680
blood vessels and that's why all

1229
00:55:34,829 --> 00:55:39,779
diabetics need our checks because we can

1230
00:55:37,679 --> 00:55:41,519
literally look into the eye and we can

1231
00:55:39,780 --> 00:55:43,290
see the changes in the blood vessels and

1232
00:55:41,519 --> 00:55:45,750
that gives us an idea of what's going on

1233
00:55:43,289 --> 00:55:48,029
elsewhere in the body now I myself had a

1234
00:55:45,750 --> 00:55:49,679
macular check about a year or two ago

1235
00:55:48,030 --> 00:55:52,440
and they took a photo of it and they

1236
00:55:49,679 --> 00:55:54,809
said it looked like a textbook macula at

1237
00:55:52,440 --> 00:55:57,150
the moment my dad does have some macular

1238
00:55:54,809 --> 00:55:59,880
degeneration he's in his 80s now how

1239
00:55:57,150 --> 00:56:02,280
often should i get my macular checked if

1240
00:55:59,880 --> 00:56:05,910

you're over 50 you should see your

1241
00:56:02,280 --> 00:56:09,360
optometrist every two years because one

1242
00:56:05,909 --> 00:56:12,179
in seven people over the age of 50 have

1243
00:56:09,360 --> 00:56:15,390
some signs of aging at the back of the

1244
00:56:12,179 --> 00:56:17,759
eyes once you get over 65 you probably

1245
00:56:15,389 --> 00:56:19,859
should clear the optometrist every year

1246
00:56:17,760 --> 00:56:21,869
the optometrist is the best person to

1247
00:56:19,860 --> 00:56:24,480
see because they have good quality

1248
00:56:21,869 --> 00:56:27,030
cameras and their practices are set up

1249
00:56:24,480 --> 00:56:29,490
to be able to screen you for I disease

1250
00:56:27,030 --> 00:56:32,040
such as macular degeneration here where

1251
00:56:29,489 --> 00:56:34,799
i work at newcastle hospital our job is

1252
00:56:32,039 --> 00:56:36,900
we treat you and so if there's a problem

1253
00:56:34,800 --> 00:56:39,450
there that the optometrist is concerned

1254
00:56:36,900 --> 00:56:40,920
about that family step in what if you do

1255
00:56:39,449 --> 00:56:43,949
have other complicating issues like

1256
00:56:40,920 --> 00:56:45,960
myself I have some glaucoma going on is

1257
00:56:43,949 --> 00:56:49,649
that necessarily affect the macula or

1258
00:56:45,960 --> 00:56:51,809
not glaucoma there are different

1259
00:56:49,650 --> 00:56:54,780
glaucoma's there's actually many types

1260
00:56:51,809 --> 00:56:56,460
of glaucoma but the one we most often

1261
00:56:54,780 --> 00:56:59,010
talk about is when there is raised

1262
00:56:56,460 --> 00:57:01,380
pressure in the eye and that increased

1263
00:56:59,010 --> 00:57:04,320
pressure has an effect on the optic

1264
00:57:01,380 --> 00:57:06,329
nerve where the optic nerve inserts into

1265
00:57:04,320 --> 00:57:09,269
the back of the eyeball again thinking

1266
00:57:06,329 --> 00:57:11,190
of our golf ball that we have the nerve

1267
00:57:09,269 --> 00:57:14,219
is a vulnerable because it's difficult

1268
00:57:11,190 --> 00:57:15,840
to get a good blood supply for the optic

1269
00:57:14,219 --> 00:57:17,849
nerve so when the pressure goes up

1270
00:57:15,840 --> 00:57:19,890
that's where we tend to see the damage

1271
00:57:17,849 --> 00:57:22,289
at the head of the optic nerve at the

1272
00:57:19,889 --> 00:57:24,750
back of the eye so glaucoma doesn't

1273
00:57:22,289 --> 00:57:27,570
usually affect the macular in very very

1274
00:57:24,750 --> 00:57:29,639
severe cases of glaucoma the macula

1275
00:57:27,570 --> 00:57:33,000
becomes affected but usually glaucoma

1276
00:57:29,639 --> 00:57:35,460
affects your peripheral vision first now

1277
00:57:33,000 --> 00:57:37,139
patients aren't going to notice

1278
00:57:35,460 --> 00:57:39,720
loss of their peripheral vision and

1279
00:57:37,139 --> 00:57:42,599
that's why it's very very important that

1280
00:57:39,719 --> 00:57:44,879
everybody is seeing an optometrist to

1281
00:57:42,599 --> 00:57:47,069
look for changes of I disease such as

1282
00:57:44,880 --> 00:57:49,950
glaucoma because patients aren't going

1283

00:57:47,070 --> 00:57:52,350
to notice loss of their provision but

1284
00:57:49,949 --> 00:57:54,719
they will notice loss of central vision

1285
00:57:52,349 --> 00:57:57,509
and that's something that we can talk

1286
00:57:54,719 --> 00:57:59,039
about how to monitor your eyes and dr.

1287
00:57:57,510 --> 00:58:00,450
Peter Davies what's the first thing

1288
00:57:59,039 --> 00:58:02,279
someone can do is having a listen to

1289
00:58:00,449 --> 00:58:04,169
this and going well maybe I should check

1290
00:58:02,280 --> 00:58:06,840
out the macula maybe not you're just

1291
00:58:04,170 --> 00:58:08,760
saying a simple optometrist visit huh if

1292
00:58:06,840 --> 00:58:11,010
there's one thing that they can do that

1293
00:58:08,760 --> 00:58:12,660
even simpler and what I'd like all your

1294
00:58:11,010 --> 00:58:15,180
listeners to do whilst they're listening

1295
00:58:12,659 --> 00:58:17,399
to me talking right now is pick up their

1296
00:58:15,179 --> 00:58:19,169
right hand and with the palm of their

1297
00:58:17,400 --> 00:58:21,599

hand I want them to cover their right

1298

00:58:19,170 --> 00:58:24,480

eye and I want them to look out of their

1299

00:58:21,599 --> 00:58:26,670

left eye only in other words I'm asking

1300

00:58:24,480 --> 00:58:29,130

people to test their vision one at a

1301

00:58:26,670 --> 00:58:32,490

time because what happens in my practice

1302

00:58:29,130 --> 00:58:34,230

is so often patients come to me to

1303

00:58:32,489 --> 00:58:37,319

macular degeneration but they haven't

1304

00:58:34,230 --> 00:58:39,960

been aware of because the brain is very

1305

00:58:37,320 --> 00:58:42,300

good at tricking you so one I could be

1306

00:58:39,960 --> 00:58:44,460

losing vision and you're not noticing it

1307

00:58:42,300 --> 00:58:46,289

you're not aware of it so I want all

1308

00:58:44,460 --> 00:58:47,909

your listeners right now cover that

1309

00:58:46,289 --> 00:58:50,099

right eye and check the vision in the

1310

00:58:47,909 --> 00:58:52,739

left side does it seem normal does it

1311

00:58:50,099 --> 00:58:55,199

seem like once they cover the writer I

1312
00:58:52,739 --> 00:58:57,949
want them to swap pick up your left hand

1313
00:58:55,199 --> 00:59:00,689
cover your left eye and check your eyes

1314
00:58:57,949 --> 00:59:04,319
individually and if patients did that

1315
00:59:00,690 --> 00:59:07,110
every week or every two weeks I think

1316
00:59:04,320 --> 00:59:09,420
that we would detect macular disease far

1317
00:59:07,110 --> 00:59:11,700
sooner than we currently do in the

1318
00:59:09,420 --> 00:59:14,159
Hunter Valley and that means I would be

1319
00:59:11,699 --> 00:59:16,199
getting to treat people earlier than I

1320
00:59:14,159 --> 00:59:18,779
currently getting to cheat them and we

1321
00:59:16,199 --> 00:59:19,919
were better overall visual results and

1322
00:59:18,780 --> 00:59:21,210
if you think you are noticing a

1323
00:59:19,920 --> 00:59:24,180
difference then you go to the

1324
00:59:21,210 --> 00:59:27,000
optometrist absolutely absolute straight

1325
00:59:24,179 --> 00:59:29,639
away if you notice reduced vision in

1326
00:59:27,000 --> 00:59:31,949
either I you don't wait for the next

1327
00:59:29,639 --> 00:59:33,839
available appointment you go and pick up

1328
00:59:31,949 --> 00:59:36,539
the phone your knock on the door and you

1329
00:59:33,840 --> 00:59:39,329
get seen immediately as a retinal

1330
00:59:36,539 --> 00:59:41,579
surgeon one of the surgeries I do is I

1331
00:59:39,329 --> 00:59:43,409
can drain the blood if there's any

1332
00:59:41,579 --> 00:59:45,960
bleeding at the back of the eye I can

1333
00:59:43,409 --> 00:59:48,329
drain that blood away from the macula

1334
00:59:45,960 --> 00:59:49,480
but patient patient costas feeling

1335
00:59:48,329 --> 00:59:51,699
within

1336
00:59:49,480 --> 00:59:54,400
day or two of the hemorrhage occurring

1337
00:59:51,699 --> 00:59:57,429
okay that's why it's so important that

1338
00:59:54,400 --> 00:59:58,869
people present straight away look thank

1339
00:59:57,429 --> 01:00:01,449
you very much for your time at dr. Peter

1340

00:59:58,869 --> 01:00:05,460
Davies and roll on that increased DNA

1341
01:00:01,449 --> 01:00:05,460
research thank you very much

1342
01:00:26,690 --> 01:00:31,050
thank you for listening to the skeptic

1343
01:00:28,980 --> 01:00:34,230
zone and thank you fred the cat hello

1344
01:00:31,050 --> 01:00:36,269
who I gave up his cat post so I could

1345
01:00:34,230 --> 01:00:38,099
set my microphone on top of that he's

1346
01:00:36,269 --> 01:00:39,630
just in my arms at the moment you're

1347
01:00:38,099 --> 01:00:45,420
going to send me out to the listeners

1348
01:00:39,630 --> 01:00:46,980
Fred and hipper work with children and

1349
01:00:45,420 --> 01:00:51,599
animals all right I'll put you down to

1350
01:00:46,980 --> 01:00:52,920
coffee guy got there he goes oh we got

1351
01:00:51,599 --> 01:00:55,589
him out I wonder if you heard that he's

1352
01:00:52,920 --> 01:00:57,300
walking away he's most upset I think he

1353
01:00:55,590 --> 01:00:59,309
wants he's cut post back it's all right

1354
01:00:57,300 --> 01:01:00,900

you'll get it back in a minute coming up

1355

01:00:59,309 --> 01:01:03,329

on the skeptic zone in the coming weeks

1356

01:01:00,900 --> 01:01:05,880

even more interviews from Iran sir give

1357

01:01:03,329 --> 01:01:07,529

at the QED conference in Manchester and

1358

01:01:05,880 --> 01:01:09,599

I think in a couple of weeks I'm going

1359

01:01:07,530 --> 01:01:12,720

to pop back up to the Blue Mountains for

1360

01:01:09,599 --> 01:01:14,849

am a magic festival hmm I think job

1361

01:01:12,719 --> 01:01:17,459

alabaster Peter bandage and I might be

1362

01:01:14,849 --> 01:01:20,789

wandering around seeing what we can find

1363

01:01:17,460 --> 01:01:23,099

there but for this week this is Richard

1364

01:01:20,789 --> 01:01:25,500

Saunders signing off with fed the cat

1365

01:01:23,099 --> 01:01:31,380

after get some water or something from

1366

01:01:25,500 --> 01:01:35,570

Sydney Australia you've been listening

1367

01:01:31,380 --> 01:01:40,260

to the skeptic zone visit our website at

1368

01:01:35,570 --> 01:01:44,120

www skeptics on TV for comments contacts

1369

01:01:40,260 --> 01:01:44,120

and extra video reports