

1
00:00:06,139 --> 00:00:13,689
welcome to the skeptic zone the podcast

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

3
00:00:22,460 --> 00:00:28,260
hello and welcome to the skeptics are an

4
00:00:25,019 --> 00:00:31,618
episode number 309 for the 21st to sep

5
00:00:28,260 --> 00:00:34,530
tember 2014 Richardson is here with you

6
00:00:31,618 --> 00:00:37,679
from Sydney Australia warming up yes

7
00:00:34,530 --> 00:00:42,210
Sydney Australia is warming up blossoms

8
00:00:37,679 --> 00:00:45,448
are blossoming on the trees and birds

9
00:00:42,210 --> 00:00:47,759
are singing and the mornings are getting

10
00:00:45,448 --> 00:00:50,640
earlier and earlier spring is coming and

11
00:00:47,759 --> 00:00:52,109
people are sneezing but you don't want a

12
00:00:50,640 --> 00:00:54,299
weather report you want to know what's

13
00:00:52,109 --> 00:00:56,399
coming up on this week's episode of the

14
00:00:54,299 --> 00:00:58,619
skeptic zone we're going to kick off

15
00:00:56,399 --> 00:01:01,289
with joe alabaster evidence please with

16
00:00:58,619 --> 00:01:04,049
Joe alabaster an opinion piece she wrote

17
00:01:01,289 --> 00:01:06,929
called defending the lion the

18
00:01:04,049 --> 00:01:09,539
vulnerability of truth an interesting

19
00:01:06,930 --> 00:01:11,940
little opinion piece with Joe alabaster

20
00:01:09,540 --> 00:01:13,799
straight from her blog straight from her

21
00:01:11,939 --> 00:01:19,408
blog and of course there's a link to

22
00:01:13,799 --> 00:01:21,450
Joe's blog at wwc aiptek zone TV and the

23
00:01:19,409 --> 00:01:23,760
very nice picture of Joe to this week I

24
00:01:21,450 --> 00:01:26,640
think on the the cover of the skeptic

25
00:01:23,760 --> 00:01:29,189
zone after that it's our voiceover man

26
00:01:26,640 --> 00:01:30,859
this man welcome to the skeptic zone Jim

27
00:01:29,189 --> 00:01:34,409
will sure he's going to read a couple

28
00:01:30,859 --> 00:01:37,049
skeptical poems he wrote bachelor of

29

00:01:34,409 --> 00:01:39,869
science which is a fun poem and mostly

30
00:01:37,049 --> 00:01:42,989
ghostly sort of a spooky encounter

31
00:01:39,870 --> 00:01:45,030
ghostly sort of palm for skeptics and

32
00:01:42,989 --> 00:01:46,739
after that we read from the pages of the

33
00:01:45,030 --> 00:01:48,480
current skeptic magazine the journal

34
00:01:46,739 --> 00:01:50,099
from Australia skeptics which you hear

35
00:01:48,480 --> 00:01:52,230
advertised quite a lot on the skeptic

36
00:01:50,099 --> 00:01:55,109
zone because I think it's a pretty damn

37
00:01:52,230 --> 00:01:57,240
good magazine in the very latest issue

38
00:01:55,109 --> 00:02:00,390
in your post box now those lucky people

39
00:01:57,239 --> 00:02:03,060
who subscribe there's a piece by buzz

40
00:02:00,390 --> 00:02:06,780
Jen save life and this is called off the

41
00:02:03,060 --> 00:02:10,378
shelf off the shelf as in get off the

42
00:02:06,780 --> 00:02:13,080
shelf it's about visiting libraries

43
00:02:10,378 --> 00:02:15,239

having a look and seeing what sort of

44

00:02:13,080 --> 00:02:17,750

nonsense has invaded down the library

45

00:02:15,239 --> 00:02:20,580

system nonsense in the way of

46

00:02:17,750 --> 00:02:23,370

anti-vaccination books pure and london's

47

00:02:20,580 --> 00:02:25,650

folks pure nonsense an interesting now

48

00:02:23,370 --> 00:02:28,530

report and i think a good lesson for us

49

00:02:25,650 --> 00:02:30,450

all and another reason why you should

50

00:02:28,530 --> 00:02:32,729

subscribe to the the skeptic magazine

51

00:02:30,449 --> 00:02:34,469

lots of good articles lots of good

52

00:02:32,729 --> 00:02:35,909

advice are

53

00:02:34,469 --> 00:02:37,800

that it's a week in size for our good

54

00:02:35,909 --> 00:02:40,319

friends the Royal Institution of

55

00:02:37,800 --> 00:02:42,450

Australia and they're talking like a

56

00:02:40,319 --> 00:02:44,789

pirate this week haha and all that sort

57

00:02:42,449 --> 00:02:46,709

of thing then to round off the show it's

58
00:02:44,789 --> 00:02:49,439
an interview I did this week with ABC

59
00:02:46,710 --> 00:02:51,870
radio in Newcastle talking about the

60
00:02:49,439 --> 00:02:53,939
vaccination Chronicles and thank you

61
00:02:51,870 --> 00:02:56,430
thank you thank you thank you too may

62
00:02:53,939 --> 00:02:58,859
not our wonderful reporter Maynard who

63
00:02:56,430 --> 00:03:01,409
line that up good on your Maynard that's

64
00:02:58,860 --> 00:03:04,050
it was really good of you to do that and

65
00:03:01,409 --> 00:03:06,560
means thousands more people have heard

66
00:03:04,050 --> 00:03:09,030
about the vaccination chronicles video

67
00:03:06,560 --> 00:03:10,500
thanks may not it that's funny when I

68
00:03:09,030 --> 00:03:13,560
woke up this morning my voice was a

69
00:03:10,500 --> 00:03:17,699
pretty good maybe maybe i've got a touch

70
00:03:13,560 --> 00:03:20,449
of the old am hay fever sort of I don't

71
00:03:17,699 --> 00:03:25,139
know I better run downstairs have that

72
00:03:20,449 --> 00:03:27,419
honey and lemon mix and a curry and

73
00:03:25,139 --> 00:03:31,609
maybe some marshmallows while I'm doing

74
00:03:27,419 --> 00:03:31,609
that I hope you enjoy the skeptic zone

75
00:03:47,330 --> 00:03:57,860
what we want is some more evidence

76
00:03:49,849 --> 00:04:00,939
please is Joe alabaster hello this is

77
00:03:57,860 --> 00:04:00,940
Joe alabaster

78
00:04:04,210 --> 00:04:11,480
defending the lion the vulnerability of

79
00:04:06,949 --> 00:04:13,969
truth the truth is like a lion you don't

80
00:04:11,479 --> 00:04:16,879
have to defend it that at loose it will

81
00:04:13,969 --> 00:04:19,220
defend itself this quote attributed to

82
00:04:16,879 --> 00:04:21,790
San Agustin has been doing the rounds as

83
00:04:19,220 --> 00:04:23,780
an inspirational meme for some time

84
00:04:21,790 --> 00:04:26,330
occasionally it'll pop up on one of my

85
00:04:23,779 --> 00:04:28,489
social media streams posted by somebody

86

00:04:26,329 --> 00:04:31,459
who I assume has faith that fact will

87
00:04:28,490 --> 00:04:33,650
prevail in the face of falsehood and of

88
00:04:31,459 --> 00:04:35,659
course I certainly hope that a will but

89
00:04:33,649 --> 00:04:39,049
I disagree strongly with San Agustin

90
00:04:35,660 --> 00:04:40,850
sentiment based on my observations I

91
00:04:39,050 --> 00:04:42,710
believe that the line of this metaphor

92
00:04:40,850 --> 00:04:45,770
is vulnerable and that we do need to

93
00:04:42,709 --> 00:04:48,349
fight to defend it ethical truths which

94
00:04:45,769 --> 00:04:49,909
are highly subjective and as such it's

95
00:04:48,350 --> 00:04:52,280
highly debatable whether they're in deep

96
00:04:49,910 --> 00:04:54,710
truths at all do not defend themselves

97
00:04:52,279 --> 00:04:56,929
if they did surely have not been

98
00:04:54,709 --> 00:04:58,430
repulsed by honor killings as those who

99
00:04:56,930 --> 00:05:00,560
commit them about having in a manner

100
00:04:58,430 --> 00:05:02,930

according to the ethical truth which I

101

00:05:00,560 --> 00:05:04,550

find indefensible that bringing dishonor

102

00:05:02,930 --> 00:05:07,129

to one's family is a greater crime than

103

00:05:04,550 --> 00:05:09,800

murdering them would not have an

104

00:05:07,129 --> 00:05:11,959

anti-abortion / pro-choice debate nor a

105

00:05:09,800 --> 00:05:14,930

euthanasia debate nor disagreements

106

00:05:11,959 --> 00:05:17,000

regarding the death penalty if ethical

107

00:05:14,930 --> 00:05:19,840

truths could defend themselves should

108

00:05:17,000 --> 00:05:22,339

they not convince us all of their merit

109

00:05:19,839 --> 00:05:24,619

likewise logical truths are not agreed

110

00:05:22,339 --> 00:05:26,918

upon by all be it through a lack of

111

00:05:24,620 --> 00:05:29,590

exploration or exposure to concepts

112

00:05:26,918 --> 00:05:33,469

alternate well argued conclusions or

113

00:05:29,589 --> 00:05:36,139

cognitive dissonance the clearest of all

114

00:05:33,470 --> 00:05:38,300

truths to factual truths backed by solid

115
00:05:36,139 --> 00:05:40,969
evidence are still vulnerable to

116
00:05:38,300 --> 00:05:44,439
falsehoods some of which when taken as

117
00:05:40,970 --> 00:05:47,419
truth present real risks to our society

118
00:05:44,439 --> 00:05:49,399
the truth that vaccination is the safest

119
00:05:47,418 --> 00:05:50,449
and most effective means by which we can

120
00:05:49,399 --> 00:05:52,909
protect ourselves from

121
00:05:50,449 --> 00:05:54,529
vaccine-preventable diseases and that

122
00:05:52,910 --> 00:05:56,930
these diseases are a real threat to

123
00:05:54,529 --> 00:05:58,429
human health and life is continually

124
00:05:56,930 --> 00:06:00,949
under attack from anti-vaccination

125
00:05:58,430 --> 00:06:02,889
advocates and to some in our community

126
00:06:00,949 --> 00:06:05,300
the anti-vaxxers can be persuasive

127
00:06:02,889 --> 00:06:07,159
resulting in both danger to individuals

128
00:06:05,300 --> 00:06:10,460
health and lowered herd immunity in our

129
00:06:07,160 --> 00:06:12,200
communities as such i funded imperative

130
00:06:10,459 --> 00:06:14,149
that vaccination advocates defend the

131
00:06:12,199 --> 00:06:16,009
truth and I'm honored to know many

132
00:06:14,149 --> 00:06:19,338
people who spend a lot of their time in

133
00:06:16,009 --> 00:06:21,229
are you doing just that likewise

134
00:06:19,338 --> 00:06:22,579
fluoridation of our water supplier is

135
00:06:21,228 --> 00:06:24,588
the safe way to ensure that our

136
00:06:22,579 --> 00:06:27,348
populations dental health is maintained

137
00:06:24,588 --> 00:06:30,740
but anti fluoridation activists believe

138
00:06:27,348 --> 00:06:32,449
differently not only are these activists

139
00:06:30,740 --> 00:06:34,939
able to convince individuals with their

140
00:06:32,449 --> 00:06:37,550
rhetoric they can also influence policy

141
00:06:34,939 --> 00:06:39,439
to the extent that entire regions remove

142
00:06:37,550 --> 00:06:42,408
fluoride from their water supply as a

143

00:06:39,439 --> 00:06:44,479
result of their campaigning in this case

144
00:06:42,408 --> 00:06:48,079
to maintain evidence-based Public Health

145
00:06:44,478 --> 00:06:50,120
Policy we must defend the truth the

146
00:06:48,079 --> 00:06:52,908
truths that fringe conspiracy theorists

147
00:06:50,120 --> 00:06:55,490
deny that the moon landing occurred that

148
00:06:52,908 --> 00:06:57,408
chem trails and merely contrails that

149
00:06:55,490 --> 00:06:59,210
the reptilians or Illuminati though

150
00:06:57,408 --> 00:07:02,389
probably aren't controlling the wall

151
00:06:59,209 --> 00:07:04,338
behind the scenes valuably cause less

152
00:07:02,389 --> 00:07:05,960
harm to communities and relatively

153
00:07:04,338 --> 00:07:07,968
little to the individuals who believe

154
00:07:05,959 --> 00:07:09,680
them the moon landing hoax sir who

155
00:07:07,968 --> 00:07:12,558
handed Buzz Aldrin one too many times

156
00:07:09,680 --> 00:07:14,509
and got punched aside but they do cervix

157
00:07:12,559 --> 00:07:16,999

examples of situations in which the

158

00:07:14,509 --> 00:07:19,249
truth is not defending itself I'm

159

00:07:16,999 --> 00:07:21,259
inclined to spend less time defending

160

00:07:19,249 --> 00:07:22,879
these truths though I do tend to take

161

00:07:21,259 --> 00:07:24,620
issue with the conspiracy theorists

162

00:07:22,879 --> 00:07:28,039
undermining of rational evidence-based

163

00:07:24,620 --> 00:07:29,718
thinking it's probable that sin

164

00:07:28,038 --> 00:07:32,149
Augustine was referring to the biblical

165

00:07:29,718 --> 00:07:34,098
truth in which he believed that the

166

00:07:32,149 --> 00:07:36,978
truth of his God would prevail without

167

00:07:34,098 --> 00:07:39,228
his defense clearly at this point in

168

00:07:36,978 --> 00:07:41,269
human history it's not given the wide

169

00:07:39,228 --> 00:07:43,490
array of beliefs and lack thereof held

170

00:07:41,269 --> 00:07:47,110
by the people of this planet his

171

00:07:43,490 --> 00:07:49,610
biblical truth is not defending itself

172
00:07:47,110 --> 00:07:52,550
we humans are capable of manipulating

173
00:07:49,610 --> 00:07:55,580
our world both with concepts and with

174
00:07:52,550 --> 00:07:57,829
actions both metaphorically and in

175
00:07:55,579 --> 00:08:00,318
reality we rented the line vulnerable

176
00:07:57,829 --> 00:08:03,438
and it relies on our protection if it is

177
00:08:00,319 --> 00:08:04,729
to prevail the benefits of defending the

178
00:08:03,439 --> 00:08:06,800
line and whether we have a moral

179
00:08:04,728 --> 00:08:10,308
imperative to do so a truth to be

180
00:08:06,800 --> 00:08:13,189
explored ethically logically and

181
00:08:10,309 --> 00:08:15,439
factually it's an orca stands truth that

182
00:08:13,189 --> 00:08:18,370
the truth can defend itself does not

183
00:08:15,439 --> 00:08:18,370
hold true for me

184
00:08:28,620 --> 00:08:36,330
hey Kenny oh hi Tom I say a this Park

185
00:08:32,379 --> 00:08:38,740
yeah yes great weather oh look a unicorn

186
00:08:36,330 --> 00:08:41,920
unicorn there are no such things as

187
00:08:38,740 --> 00:08:44,110
unicorns silly yes there is no there

188
00:08:41,919 --> 00:08:47,229
isn't hey guys what are you arguing

189
00:08:44,110 --> 00:08:49,389
about tom thinks unicorns are real hey

190
00:08:47,230 --> 00:08:52,480
so are let's look this up in the

191
00:08:49,389 --> 00:08:54,250
skeptics dictionary now what how can we

192
00:08:52,480 --> 00:08:55,930
do this in this bar there is the

193
00:08:54,250 --> 00:08:57,639
computer here you guys probably don't

194
00:08:55,929 --> 00:09:00,729
know about the skeptics dictionary app

195
00:08:57,639 --> 00:09:04,659
available now for iPhone iPad and iPod

196
00:09:00,730 --> 00:09:06,190
touch in the app store Wow cool the app

197
00:09:04,659 --> 00:09:08,409
lets you access all of the great

198
00:09:06,190 --> 00:09:10,990
skeptics dictionary articles when you're

199
00:09:08,409 --> 00:09:13,719
on the go here let me look up unicorns

200

00:09:10,990 --> 00:09:16,240
sound cool Kenny prepare to be proven

201
00:09:13,720 --> 00:09:20,379
wrong it says here the Unicorn is a

202
00:09:16,240 --> 00:09:21,639
creature from fables aha actually I see

203
00:09:20,379 --> 00:09:24,250
now that someone just dumped their ice

204
00:09:21,639 --> 00:09:29,860
cream cone on that horse's head thanks

205
00:09:24,250 --> 00:09:32,529
skeptics dictionary iphone app bachelor

206
00:09:29,860 --> 00:09:34,779
of science you're a bachelor of science

207
00:09:32,529 --> 00:09:36,939
so I guess that means you know how to

208
00:09:34,779 --> 00:09:39,279
constantly keep in touch with those who

209
00:09:36,940 --> 00:09:41,640
have to go and have a summon up their

210
00:09:39,279 --> 00:09:45,159
spirits if they're slightly willing and

211
00:09:41,639 --> 00:09:48,069
speak to the dead why that really is

212
00:09:45,159 --> 00:09:51,189
quite thrilling does this gift which you

213
00:09:48,070 --> 00:09:53,470
have meme you could talk to pits and do

214
00:09:51,190 --> 00:09:55,810

you do it by the ether or through the

215

00:09:53,470 --> 00:09:59,170

media admits could you get in contact

216

00:09:55,809 --> 00:10:01,839

say with my dear departed cat for having

217

00:09:59,169 --> 00:10:05,079

been once run over is that the end of

218

00:10:01,840 --> 00:10:07,300

that and what about my dog do you think

219

00:10:05,080 --> 00:10:09,780

you'd hear him bark from that big doggy

220

00:10:07,299 --> 00:10:12,159

playground the dead dog departed park

221

00:10:09,779 --> 00:10:14,470

having made a connection could I be

222

00:10:12,159 --> 00:10:17,259

absolutely sure that the doggy were

223

00:10:14,470 --> 00:10:19,330

communing was the pet I'm pining for I'm

224

00:10:17,259 --> 00:10:21,819

worried about the chance of the wrong

225

00:10:19,330 --> 00:10:24,280

contact being made that you might get a

226

00:10:21,820 --> 00:10:26,050

canine with which I never played but

227

00:10:24,279 --> 00:10:28,629

someone else's pet which would

228

00:10:26,049 --> 00:10:32,469

madsen to my call or perish the thought

229
00:10:28,629 --> 00:10:35,289
you'd get no dead dog Sol at all now I

230
00:10:32,470 --> 00:10:37,959
might just have to wait until I joined I

231
00:10:35,289 --> 00:10:41,199
passed on pets it seems you might be

232
00:10:37,958 --> 00:10:43,989
trying to lay off my psychic bits and as

233
00:10:41,200 --> 00:10:46,540
for my parents where although you have

234
00:10:43,990 --> 00:10:49,089
that ticket I think the school was

235
00:10:46,539 --> 00:10:56,828
falling so you know where you can stick

236
00:10:49,089 --> 00:10:58,930
it Mostly Ghostly there's something

237
00:10:56,828 --> 00:11:02,199
lurking in the shadows hey are you a

238
00:10:58,929 --> 00:11:05,559
Ghost a soul departed or maybe you're an

239
00:11:02,200 --> 00:11:08,528
angel looking for a host this time there

240
00:11:05,559 --> 00:11:11,199
was an answer when windows started to

241
00:11:08,528 --> 00:11:14,588
rattle the table rows then crashed to

242
00:11:11,200 --> 00:11:16,899
the floor and we were set for battle the

243
00:11:14,589 --> 00:11:20,170
cameras word as the ghost appeared in

244
00:11:16,899 --> 00:11:23,500
the cold air there would bony fingers

245
00:11:20,169 --> 00:11:26,229
bold knuckles craggy face and straggly

246
00:11:23,500 --> 00:11:30,339
hair eyes set back deep in their sockets

247
00:11:26,230 --> 00:11:33,399
tearing stark raving mad would this be a

248
00:11:30,339 --> 00:11:36,490
clash of violent wills could this be

249
00:11:33,399 --> 00:11:38,649
really bad never had I seen such a

250
00:11:36,490 --> 00:11:40,690
visual trick as this site I saw before

251
00:11:38,649 --> 00:11:43,389
me if it was a trick with smoke and

252
00:11:40,690 --> 00:11:46,149
mirrors but nothing didn't show me just

253
00:11:43,389 --> 00:11:48,819
a realistic site of an unrealistic thing

254
00:11:46,149 --> 00:11:50,919
a ghost from the dead and I tried to

255
00:11:48,820 --> 00:11:54,760
think what I'd eaten that put chemicals

256
00:11:50,919 --> 00:11:57,549
in my head it spoke in a feeble scratchy

257

00:11:54,759 --> 00:11:59,588
voice and I hardly heard a word my heart

258
00:11:57,549 --> 00:12:01,958
pounding they on my choice was all I

259
00:11:59,589 --> 00:12:04,360
really heard and the table started

260
00:12:01,958 --> 00:12:07,659
trembling and it danced across the floor

261
00:12:04,360 --> 00:12:11,169
as the ghost looked straight at me so he

262
00:12:07,659 --> 00:12:14,409
could see what I was for find my corpse

263
00:12:11,169 --> 00:12:17,229
find my dead body his words scratched

264
00:12:14,409 --> 00:12:20,139
the air and I looked into his eyes where

265
00:12:17,230 --> 00:12:23,379
I got trapped inside his stare I'm

266
00:12:20,139 --> 00:12:26,379
asking for help from you and unbeliever

267
00:12:23,379 --> 00:12:30,399
he wheezed you must help me find my body

268
00:12:26,379 --> 00:12:32,919
and I felt my body squeezed could this

269
00:12:30,399 --> 00:12:35,440
really be a disconnected spirit from

270
00:12:32,919 --> 00:12:38,269
beyond the real I tried to convince

271
00:12:35,440 --> 00:12:40,580

myself that I couldn't see or hear or

272

00:12:38,269 --> 00:12:44,329

eel but it was as though I could see

273

00:12:40,580 --> 00:12:47,990

into his brain and he mine and the cold

274

00:12:44,330 --> 00:12:50,930

concept sent cold shivers up and down my

275

00:12:47,990 --> 00:12:53,659

spine his look bought its way to the

276

00:12:50,929 --> 00:12:56,629

back of my skull through my eyes and I

277

00:12:53,659 --> 00:12:59,899

saw his naked soul stripped of life of

278

00:12:56,629 --> 00:13:02,389

truth and of lies then his tenuous grip

279

00:12:59,899 --> 00:13:05,139

on my world started to slowly loosen

280

00:13:02,389 --> 00:13:09,139

hold and the room was sucked of light

281

00:13:05,139 --> 00:13:11,779

without light was cold this glorious

282

00:13:09,139 --> 00:13:14,330

apparition was disintegrating fading

283

00:13:11,779 --> 00:13:16,929

with his hope going back to the world

284

00:13:14,330 --> 00:13:19,750

between worlds sliding down the slope

285

00:13:16,929 --> 00:13:24,309

disappearing as he had appeared and

286
00:13:19,750 --> 00:13:28,100
vanishing from my mind until a strange

287
00:13:24,309 --> 00:13:30,969
uneasy feeling was the sole thing he

288
00:13:28,100 --> 00:13:30,970
left behind

289
00:13:35,269 --> 00:13:40,529
ad hominem begging the question factoid

290
00:13:38,399 --> 00:13:42,659
propagation false analogy false cause

291
00:13:40,529 --> 00:13:44,490
false dichotomy gibberish immunized

292
00:13:42,659 --> 00:13:45,990
hypothesis moral equivalence poison the

293
00:13:44,490 --> 00:13:48,629
well simple modern certitude stacking

294
00:13:45,990 --> 00:13:50,580
the deck and WTF are just some of the

295
00:13:48,629 --> 00:13:53,100
fallacies we provide real life examples

296
00:13:50,580 --> 00:13:56,759
of in hunting humbug 101 a podcast about

297
00:13:53,100 --> 00:13:59,330
bad arguments check it out at www.viki

298
00:13:56,759 --> 00:13:59,330
I'll guide

299
00:14:23,860 --> 00:14:31,970
from the pages of the skeptic volume 34

300
00:14:26,990 --> 00:14:36,200
number 3 september 2014 off the shelf

301
00:14:31,970 --> 00:14:38,360
by buzz Jen sapling audience la visited

302
00:14:36,200 --> 00:14:41,870
his local library and didn't like what

303
00:14:38,360 --> 00:14:44,750
he saw and said so nothing seems to whip

304
00:14:41,870 --> 00:14:46,519
people up into a rabid frenzy like a

305
00:14:44,750 --> 00:14:48,889
good old conversation around

306
00:14:46,519 --> 00:14:50,929
vaccinations I have an old schoolmate

307
00:14:48,889 --> 00:14:53,720
who happens to be a medical doctor on

308
00:14:50,929 --> 00:14:56,329
the Queensland sunshine coast on the

309
00:14:53,720 --> 00:14:57,860
first of April no joke intended an

310
00:14:56,330 --> 00:14:59,810
article about anti-vaccination

311
00:14:57,860 --> 00:15:03,200
literature appeared in the sunshine

312
00:14:59,809 --> 00:15:05,899
coast daily anti-vaccination books in

313
00:15:03,200 --> 00:15:08,540
library anger doctors my friend dr.

314

00:15:05,899 --> 00:15:11,149
david mcintosh reported to his local

315
00:15:08,539 --> 00:15:13,549
council that there was in fact an

316
00:15:11,149 --> 00:15:15,709
anti-vaccination propaganda being freely

317
00:15:13,549 --> 00:15:18,199
distributed in the health and well-being

318
00:15:15,710 --> 00:15:20,330
section of his local library in

319
00:15:18,200 --> 00:15:22,360
particular literature that suggested a

320
00:15:20,330 --> 00:15:25,340
link between vaccinations and autism

321
00:15:22,360 --> 00:15:27,950
after several letters expressing concern

322
00:15:25,340 --> 00:15:30,080
over the material being available and

323
00:15:27,950 --> 00:15:32,060
despite the Sunshine Coast having some

324
00:15:30,080 --> 00:15:34,639
of the country's lowest vaccination

325
00:15:32,059 --> 00:15:37,759
rates the council cited freedom of

326
00:15:34,639 --> 00:15:40,460
speech and good old two sides to every

327
00:15:37,759 --> 00:15:41,899
debate as a reason for its decision

328
00:15:40,460 --> 00:15:45,320

following is a copy of the

329

00:15:41,899 --> 00:15:48,350
correspondence to the council dear meron

330

00:15:45,320 --> 00:15:49,879
councillors of the Sunshine Coast I wish

331

00:15:48,350 --> 00:15:51,800
to draw your attention to several

332

00:15:49,879 --> 00:15:54,019
libraries under the auspices of the

333

00:15:51,799 --> 00:15:56,179
council that have books on their shells

334

00:15:54,019 --> 00:15:58,789
that contain misinformation about

335

00:15:56,179 --> 00:16:01,129
vaccinations of concern is that there is

336

00:15:58,789 --> 00:16:03,259
content suggesting vaccinations cause of

337

00:16:01,129 --> 00:16:05,509
autism I have drawn this to the

338

00:16:03,259 --> 00:16:08,029
attention of the library services and to

339

00:16:05,509 --> 00:16:10,429
their credit they have elected to defend

340

00:16:08,029 --> 00:16:13,129
the right of free speech this is at the

341

00:16:10,429 --> 00:16:15,169
expense of accuracy though it is my

342

00:16:13,129 --> 00:16:17,960
suggestion that open discussion of

343
00:16:15,169 --> 00:16:19,849
topics of all types is to be committed

344
00:16:17,960 --> 00:16:21,710
with given we have one of the lowest

345
00:16:19,850 --> 00:16:24,350
vaccination rates of children in

346
00:16:21,710 --> 00:16:25,940
Australia it seems inappropriate that

347
00:16:24,350 --> 00:16:27,269
council would tesson tlie approve

348
00:16:25,940 --> 00:16:29,610
conspiracy theory

349
00:16:27,269 --> 00:16:32,009
literature that result in compromised

350
00:16:29,610 --> 00:16:34,169
children's health the mere fact that

351
00:16:32,009 --> 00:16:36,419
such literature can be existed in public

352
00:16:34,169 --> 00:16:38,849
library can only serve to support the

353
00:16:36,419 --> 00:16:41,399
notion that anti-vaccination stances are

354
00:16:38,850 --> 00:16:43,259
supported which would seem contrary to

355
00:16:41,399 --> 00:16:46,559
the role of a responsible government

356
00:16:43,259 --> 00:16:49,230
body I would seek to implore counsel to

357
00:16:46,559 --> 00:16:51,239
take a leadership role in assessing the

358
00:16:49,230 --> 00:16:54,539
accuracy of literature it makes

359
00:16:51,240 --> 00:16:57,899
available its shells when it comes to

360
00:16:54,539 --> 00:17:00,389
such an important topic and implement a

361
00:16:57,899 --> 00:17:02,929
review of policy regarding this

362
00:17:00,389 --> 00:17:05,250
particular topic this got me thinking

363
00:17:02,929 --> 00:17:07,139
are there these kinds of things

364
00:17:05,250 --> 00:17:09,809
happening in the Australian Capital

365
00:17:07,140 --> 00:17:12,770
Territory public library of course there

366
00:17:09,809 --> 00:17:15,419
are although not as many as I had feared

367
00:17:12,769 --> 00:17:17,990
but what they did have was what I

368
00:17:15,420 --> 00:17:21,660
considered to be some of the worst I

369
00:17:17,990 --> 00:17:24,750
found vaccination roulette written by

370
00:17:21,660 --> 00:17:28,710
none other than the former avian now AV

371

00:17:24,750 --> 00:17:30,269
SN I did my best to try and read it it

372
00:17:28,710 --> 00:17:33,150
was hard going the book is filled with

373
00:17:30,269 --> 00:17:35,250
the expected anecdotal evidence and

374
00:17:33,150 --> 00:17:37,860
lashings of victory or misinformation

375
00:17:35,250 --> 00:17:40,980
and loads of cherry-picking statistics

376
00:17:37,859 --> 00:17:43,740
and evidence not to mention a quote from

377
00:17:40,980 --> 00:17:45,150
Gandhi in the introduction i also found

378
00:17:43,740 --> 00:17:48,059
another book which was rather more

379
00:17:45,150 --> 00:17:51,450
subtle with its auntie vax message

380
00:17:48,059 --> 00:17:54,089
called vaccinations thoughtful parents

381
00:17:51,450 --> 00:17:56,549
guide it is written by aviva jill rum

382
00:17:54,089 --> 00:17:59,730
the following is a blurb on the jacket

383
00:17:56,549 --> 00:18:01,379
of the book deciding whether or went to

384
00:17:59,730 --> 00:18:04,289
vaccinate a child is one of the most

385
00:18:01,380 --> 00:18:06,150

important now most difficult health care

386

00:18:04,289 --> 00:18:07,829

decisions a parent will ever make the

387

00:18:06,150 --> 00:18:10,140

recent increase in the number of

388

00:18:07,829 --> 00:18:12,210

vaccinations recommended any concurrent

389

00:18:10,140 --> 00:18:14,910

controversies about whether vaccinations

390

00:18:12,210 --> 00:18:17,059

are safe or even effective have left

391

00:18:14,910 --> 00:18:19,769

many parents confused and concerned

392

00:18:17,059 --> 00:18:22,409

Midwife herbalist and mother of four

393

00:18:19,769 --> 00:18:24,539

Bohemond you're wrong sifts through this

394

00:18:22,410 --> 00:18:27,120

made of current research on magazine

395

00:18:24,539 --> 00:18:29,549

safety and efficacy and offers a

396

00:18:27,119 --> 00:18:31,799

sensible balanced discussion on the pros

397

00:18:29,549 --> 00:18:33,250

and cons of each routine childhood

398

00:18:31,799 --> 00:18:35,289

vaccinations

399

00:18:33,250 --> 00:18:37,059

she presents the full spectrum of

400
00:18:35,289 --> 00:18:38,859
options available to parents for

401
00:18:37,059 --> 00:18:41,589
vaccinations on the standardized or

402
00:18:38,859 --> 00:18:44,069
individualized schedule selective

403
00:18:41,589 --> 00:18:46,059
vaccination or no vaccinations at all

404
00:18:44,069 --> 00:18:48,339
negotiating daycare and school

405
00:18:46,059 --> 00:18:50,649
requirements dealing with other parents

406
00:18:48,339 --> 00:18:52,599
and traveling with an unvaccinated child

407
00:18:50,650 --> 00:18:55,210
are all covered in detail the book also

408
00:18:52,599 --> 00:18:57,639
suggests ways to strengthen children's

409
00:18:55,210 --> 00:18:59,620
of mere systems and maintain optimal

410
00:18:57,640 --> 00:19:03,090
health and offers verbal and fermion

411
00:18:59,619 --> 00:19:05,469
pathak remedies for childhood ailments

412
00:19:03,089 --> 00:19:07,720
emphasizing that no single approach is

413
00:19:05,470 --> 00:19:10,269
appropriate for every child the other

414
00:19:07,720 --> 00:19:13,269
guys parents as they make the choices

415
00:19:10,269 --> 00:19:15,039
that are right for their child my next

416
00:19:13,269 --> 00:19:17,980
step was to contact the manager of

417
00:19:15,039 --> 00:19:21,009
collection services national and state

418
00:19:17,980 --> 00:19:22,750
libraries Australia Matthew Bareilles to

419
00:19:21,009 --> 00:19:25,269
discuss my concerns regarding these

420
00:19:22,750 --> 00:19:27,910
books well I stated I was not a fan of

421
00:19:25,269 --> 00:19:30,039
censorship I also felt that the

422
00:19:27,910 --> 00:19:32,410
information in the avn book had been

423
00:19:30,039 --> 00:19:34,180
proven to be fraudulent and there was a

424
00:19:32,410 --> 00:19:37,240
very real possibility of that

425
00:19:34,180 --> 00:19:39,549
information harming children I stated

426
00:19:37,240 --> 00:19:41,650
that this topic didn't have two sides to

427
00:19:39,549 --> 00:19:44,289
argue as the overwhelming scientific

428

00:19:41,650 --> 00:19:47,500
evidence was in favor of vaccination I

429
00:19:44,289 --> 00:19:50,139
also told him of the recent warning that

430
00:19:47,500 --> 00:19:52,299
had been issued by the H Triple C in

431
00:19:50,140 --> 00:19:55,930
relation to the information and in

432
00:19:52,299 --> 00:19:58,839
particular to the avs ends website and

433
00:19:55,930 --> 00:20:01,600
the information had provided he agreed

434
00:19:58,839 --> 00:20:03,789
that from time to time books needed to

435
00:20:01,599 --> 00:20:05,379
be reviewed this was particularly so

436
00:20:03,789 --> 00:20:08,440
with those found in the health

437
00:20:05,380 --> 00:20:09,580
well-being and science categories so as

438
00:20:08,440 --> 00:20:12,039
to keep up-to-date with current

439
00:20:09,579 --> 00:20:13,839
scientific opinion he said he would

440
00:20:12,039 --> 00:20:16,869
reserve the books which he did and

441
00:20:13,839 --> 00:20:19,869
review them in good time and respond to

442
00:20:16,869 --> 00:20:22,209

me with his findings I also enlisted the

443

00:20:19,869 --> 00:20:24,819

Canberra skeptics lend a hand Amanda

444

00:20:22,210 --> 00:20:27,160

Davao has been making queries on behalf

445

00:20:24,819 --> 00:20:30,009

of the Canberra skeptics and I thank

446

00:20:27,160 --> 00:20:32,800

them greatly for their support in this

447

00:20:30,009 --> 00:20:34,809

matter the end result in my endeavors

448

00:20:32,799 --> 00:20:37,389

has been the removal of this particular

449

00:20:34,809 --> 00:20:42,009

book from the a.c.t Public Library

450

00:20:37,390 --> 00:20:44,140

System much the howls of the Avs n I was

451

00:20:42,009 --> 00:20:47,048

also informed that this book may well

452

00:20:44,140 --> 00:20:49,090

have been donated and placed on the show

453

00:20:47,048 --> 00:20:52,808

perhaps by someone sympathetic to the

454

00:20:49,089 --> 00:20:54,759

avs n as I was assured that this was not

455

00:20:52,808 --> 00:20:57,339

the sort of book the library would be

456

00:20:54,759 --> 00:21:01,239

interested in purchasing or placing on

457
00:20:57,339 --> 00:21:03,189
it's shelves since the Avs end and or

458
00:21:01,239 --> 00:21:05,288
its supporters found out I was

459
00:21:03,190 --> 00:21:07,210
responsible for this action I have been

460
00:21:05,288 --> 00:21:10,480
attacked on Facebook and likened to

461
00:21:07,210 --> 00:21:13,028
Hitler as the Avs end has suggested that

462
00:21:10,480 --> 00:21:16,599
we are burning books just like the Nazi

463
00:21:13,028 --> 00:21:18,878
Party the Avs n also suggested that it

464
00:21:16,599 --> 00:21:21,668
would be petitioning to get the book

465
00:21:18,878 --> 00:21:23,408
back on the shelves however to date

466
00:21:21,669 --> 00:21:25,509
there has been no record of any books

467
00:21:23,409 --> 00:21:27,909
being received and they are not found

468
00:21:25,509 --> 00:21:29,589
when doing a catalog search I was

469
00:21:27,909 --> 00:21:31,899
willing to concede to have the book

470
00:21:29,589 --> 00:21:34,089
simply move to a section other than the

471
00:21:31,898 --> 00:21:36,368
health or well-being section with the

472
00:21:34,089 --> 00:21:39,249
library manager was the one who decided

473
00:21:36,368 --> 00:21:41,048
to remove it not me in the end I feel

474
00:21:39,249 --> 00:21:43,808
that this was the best result I could

475
00:21:41,048 --> 00:21:45,519
have hoped for but as I have said there

476
00:21:43,808 --> 00:21:48,608
are still plenty of anti-vaccination

477
00:21:45,519 --> 00:21:51,519
books out there and it pays to always be

478
00:21:48,608 --> 00:21:53,079
vigilant I suggest that everyone should

479
00:21:51,519 --> 00:21:55,538
perhaps take a visit to their local

480
00:21:53,079 --> 00:21:57,668
library and take a look on the health

481
00:21:55,538 --> 00:22:00,009
and well-being shelves you might be

482
00:21:57,669 --> 00:22:02,259
surprised at what do you find about the

483
00:22:00,009 --> 00:22:06,058
orphan boss gents our play is now at an

484
00:22:02,259 --> 00:22:06,058
astronomer and point us

485

00:22:24,640 --> 00:22:29,840
hi I'm audit oh yeah Kristen or evil

486
00:22:28,190 --> 00:22:31,519
tips advice on logic lifted all the

487
00:22:29,839 --> 00:22:33,109
skeptics own um skip the comedian more

488
00:22:31,519 --> 00:22:34,670
again that feels much can prob get up

489
00:22:33,109 --> 00:22:36,259
early for podcast over and against

490
00:22:34,670 --> 00:22:38,269
capsis river- like if I'm ever after

491
00:22:36,259 --> 00:22:40,250
this match since ralph i skipped assist

492
00:22:38,269 --> 00:22:42,259
off and loop or hyper versus the deep

493
00:22:40,250 --> 00:22:43,910
plan architecture and calendar or escape

494
00:22:42,259 --> 00:22:45,019
this car together or linked you till i

495
00:22:43,910 --> 00:22:46,700
will escape this guild association

496
00:22:45,019 --> 00:22:48,139
escapes the slogan of authority and lay

497
00:22:46,700 --> 00:22:50,870
all the discs ateres hefty pass caps is

498
00:22:48,140 --> 00:22:54,380
for domestic in eau de yourself skips a

499
00:22:50,869 --> 00:22:56,239

stop hello hello I'm moderate and I'm

500

00:22:54,380 --> 00:22:58,160

Kristin and we want to let you know that

501

00:22:56,240 --> 00:23:00,079

there are lots of Norwegian skeptics for

502

00:22:58,160 --> 00:23:01,850

you to get to know their blogs and

503

00:23:00,079 --> 00:23:03,619

permits and a podcast and the Norwegian

504

00:23:01,849 --> 00:23:05,509

skeptics also do paranormal tests and

505

00:23:03,619 --> 00:23:08,149

consumer activism to find out more

506

00:23:05,509 --> 00:23:11,049

Google Norwegian skeptics or visit skept

507

00:23:08,150 --> 00:23:11,050

seasonal

508

00:23:11,308 --> 00:23:13,369

you

509

00:23:17,250 --> 00:23:22,089

welcome to a weakened science from ra oz

510

00:23:20,019 --> 00:23:24,190

bringing you the science you need to

511

00:23:22,089 --> 00:23:26,048

know in recognition of talk like a

512

00:23:24,190 --> 00:23:29,440

pirate day this week we're going to get

513

00:23:26,048 --> 00:23:35,619

old swashbuckling are as we look at the

514
00:23:29,440 --> 00:23:37,778
science of me hearties are two pirate

515
00:23:35,619 --> 00:23:39,849
life for me sailing the yarn or with

516
00:23:37,778 --> 00:23:41,980
science on your side you know matey

517
00:23:39,849 --> 00:23:44,048
sailing the blue oceans I need to be

518
00:23:41,980 --> 00:23:46,899
able to navigate my way with the Stars

519
00:23:44,048 --> 00:23:48,960
to do this we Mariners use the device

520
00:23:46,898 --> 00:23:51,729
quarterback staff during the day or

521
00:23:48,960 --> 00:23:54,308
nocturnal at night these measured the

522
00:23:51,730 --> 00:23:57,220
angle of the Sun or stars to find the

523
00:23:54,308 --> 00:23:59,319
ship's latitude and time important to

524
00:23:57,220 --> 00:24:01,269
knowing where I'm plundering is also the

525
00:23:59,319 --> 00:24:03,308
sextant by measuring the angle of the

526
00:24:01,269 --> 00:24:05,798
Sun we could calculate the latitude of

527
00:24:03,308 --> 00:24:08,440
airship if the Sun was right over ahead

528
00:24:05,798 --> 00:24:11,470
we be on the equator but if not we'd be

529
00:24:08,440 --> 00:24:13,120
a particular distance north or south the

530
00:24:11,470 --> 00:24:15,669
sextant could also be used to measure

531
00:24:13,119 --> 00:24:18,339
the angle between the moon and a star or

532
00:24:15,669 --> 00:24:20,620
planet to determine the longitude or two

533
00:24:18,339 --> 00:24:24,490
landmarks to triangulate the position of

534
00:24:20,619 --> 00:24:26,979
the ship to work out how fast we be

535
00:24:24,490 --> 00:24:29,649
traveling we use the chip log a piece of

536
00:24:26,980 --> 00:24:31,480
wood tides the end of a rope so when the

537
00:24:29,648 --> 00:24:34,000
wood is thrown overboard it pulls the

538
00:24:31,480 --> 00:24:36,490
rope out along the rope / efully space

539
00:24:34,000 --> 00:24:39,278
nuts counting the number of nuts which

540
00:24:36,490 --> 00:24:41,620
go past every 28 seconds show the speed

541
00:24:39,278 --> 00:24:44,409
of the ship this is why we have the term

542

00:24:41,619 --> 00:24:46,239
nuts for the speed of a ship and one to

543
00:24:44,409 --> 00:24:48,640
which let us calculate all this quickly

544
00:24:46,240 --> 00:24:50,919
and accurately was Gunter's ruled a

545
00:24:48,640 --> 00:24:52,990
logarithmic scale roller which allowed

546
00:24:50,919 --> 00:24:55,570
easy calculations using a set of

547
00:24:52,990 --> 00:24:57,929
calipers and now let's plunder air for

548
00:24:55,569 --> 00:25:00,639
fast facts

549
00:24:57,929 --> 00:25:02,290
pirates used an early form of grenade

550
00:25:00,640 --> 00:25:04,720
which are essentially just huddled

551
00:25:02,289 --> 00:25:07,089
mescal balls filled with gunpowder with

552
00:25:04,720 --> 00:25:09,429
a simple fuse sticking out the end a

553
00:25:07,089 --> 00:25:11,859
pirate's was probably more likely to die

554
00:25:09,429 --> 00:25:13,720
of disease than in combat some of the

555
00:25:11,859 --> 00:25:16,629
more common diseases were a result of

556
00:25:13,720 --> 00:25:19,299

poor hygiene another common disease was

557

00:25:16,630 --> 00:25:21,490

scurvy words on by a lack of vitamin C

558

00:25:19,299 --> 00:25:24,700

and a diet which consisted of cured and

559

00:25:21,490 --> 00:25:27,250

salted foods and if a pirate survived an

560

00:25:24,700 --> 00:25:29,289

injury that required an amputation they

561

00:25:27,250 --> 00:25:31,660

still had to survive blood loss during

562

00:25:29,289 --> 00:25:33,819

the operation the intense pain of an

563

00:25:31,660 --> 00:25:35,890

amputation without anesthetic and an

564

00:25:33,819 --> 00:25:38,319

almost inevitable infection following

565

00:25:35,890 --> 00:25:41,350

surgery medical understanding of the

566

00:25:38,319 --> 00:25:43,509

times rudimentary its best hmm that's

567

00:25:41,349 --> 00:25:45,759

quite enough that's I think for more

568

00:25:43,509 --> 00:25:49,720

information on science of pirates go to

569

00:25:45,759 --> 00:25:52,900

the RLS website RI aus org dot a you

570

00:25:49,720 --> 00:25:55,299

follow us on twitter at ra oz and like

571
00:25:52,900 --> 00:25:58,080
us on facebook i'm ben lewis and we'll

572
00:25:55,299 --> 00:25:58,079
catch you next week

573
00:26:05,920 --> 00:26:10,279
yeah guys I was talking to Richard

574
00:26:08,269 --> 00:26:12,259
solvency today all right he said if we

575
00:26:10,279 --> 00:26:14,389
record a trailer for our podcast

576
00:26:12,259 --> 00:26:16,039
skeptics with a que he'd play it on

577
00:26:14,390 --> 00:26:17,390
their own they're sure nice nice of him

578
00:26:16,039 --> 00:26:18,589
that's very generous it's pretty good

579
00:26:17,390 --> 00:26:20,570
i'm not sure what we could do though I

580
00:26:18,589 --> 00:26:22,129
mean well suppose you tell people the

581
00:26:20,569 --> 00:26:24,950
shows about but it's basically as this

582
00:26:22,130 --> 00:26:26,720
yeah but yeah but you know we talk about

583
00:26:24,950 --> 00:26:27,860
science and skepticism and things that's

584
00:26:26,720 --> 00:26:28,970
that's true I suppose you know you

585
00:26:27,859 --> 00:26:31,159
mentioned the website address what

586
00:26:28,970 --> 00:26:32,929
merseyside skeptics told our UK yeah

587
00:26:31,160 --> 00:26:34,279
yeah just like searches night UN's oh

588
00:26:32,929 --> 00:26:37,759
and then we could end with like a big

589
00:26:34,279 --> 00:26:51,980
song like the skeptics with okay god no

590
00:26:37,759 --> 00:26:56,000
no no no don't don't do that on 1233 ABC

591
00:26:51,980 --> 00:26:59,569
newcastle i don't think it matters where

592
00:26:56,000 --> 00:27:04,609
you stand on vaccination immunization of

593
00:26:59,569 --> 00:27:06,379
of your kids i think though well it in

594
00:27:04,609 --> 00:27:09,829
my opinion it does matter i think though

595
00:27:06,380 --> 00:27:14,780
the way that people are often treated on

596
00:27:09,829 --> 00:27:18,019
either side of the argument is sometimes

597
00:27:14,779 --> 00:27:20,210
pretty awful Richard Saunders is an

598
00:27:18,019 --> 00:27:21,650
independent filmmaker and public speaker

599

00:27:20,210 --> 00:27:24,440
and joins me this afternoon to talk

600
00:27:21,650 --> 00:27:26,470
about his new short documentary which is

601
00:27:24,440 --> 00:27:28,308
called the vaccination chronicles

602
00:27:26,470 --> 00:27:31,970
Richard thank you very much for your

603
00:27:28,308 --> 00:27:36,259
time my pleasure I have tried very

604
00:27:31,970 --> 00:27:38,089
carefully over many years to try and

605
00:27:36,259 --> 00:27:40,179
ensure that interviews that I do with

606
00:27:38,089 --> 00:27:44,599
people who are perhaps anti-vaccination

607
00:27:40,179 --> 00:27:46,400
as fair as I can possibly make them but

608
00:27:44,599 --> 00:27:49,490
it is difficult when you see children

609
00:27:46,400 --> 00:27:51,769
who have been injured by a vaccine

610
00:27:49,490 --> 00:27:53,630
preventable disease absolutely right i

611
00:27:51,769 --> 00:27:57,109
mean i know this is an issue that stores

612
00:27:53,630 --> 00:27:59,000
great emotion out there in the in the

613
00:27:57,109 --> 00:28:02,750

population and what I wanted to do with

614

00:27:59,000 --> 00:28:05,420

this video especially is to impress upon

615

00:28:02,750 --> 00:28:07,549

young parents that when they look around

616

00:28:05,420 --> 00:28:09,710

them in the world today and you don't

617

00:28:07,549 --> 00:28:10,549

see many instances of these terrible

618

00:28:09,710 --> 00:28:12,230

diseases

619

00:28:10,549 --> 00:28:16,009

they're somewhere in the background but

620

00:28:12,230 --> 00:28:17,569

their grandparents and people in older

621

00:28:16,009 --> 00:28:19,549

generations and many of the people

622

00:28:17,569 --> 00:28:22,879

listening to us right now will be well

623

00:28:19,549 --> 00:28:26,599

aware of what it was like in the 40s 30s

624

00:28:22,880 --> 00:28:29,000

or 40s and the 50s where you didn't know

625

00:28:26,599 --> 00:28:33,129

if tomorrow your child would be struck

626

00:28:29,000 --> 00:28:35,720

down with polio for example or maybe

627

00:28:33,130 --> 00:28:39,560

tuberculosis and all these terrible

628
00:28:35,720 --> 00:28:43,370
diseases so my goal was to interview

629
00:28:39,559 --> 00:28:45,559
people who did see it and we could hear

630
00:28:43,369 --> 00:28:47,809
from them I've got a small piece here

631
00:28:45,559 --> 00:28:49,519
Richard of one of the subjects in your

632
00:28:47,809 --> 00:28:51,740
documentary the vaccination chronicles

633
00:28:49,519 --> 00:28:53,869
speaking about his sister having

634
00:28:51,740 --> 00:28:57,559
contracted polio I'll just pay that this

635
00:28:53,869 --> 00:29:00,589
is early 50s and I'm about five or six

636
00:28:57,559 --> 00:29:04,970
and I can remember sitting at the dining

637
00:29:00,589 --> 00:29:09,740
table and there's a doctor talking to my

638
00:29:04,970 --> 00:29:13,759
father who's standing up and the doctors

639
00:29:09,740 --> 00:29:17,000
telling my dad assists my baby

640
00:29:13,759 --> 00:29:19,940
sister's got polio and the look of

641
00:29:17,000 --> 00:29:22,640
horror on his face and I can hear my

642
00:29:19,940 --> 00:29:26,180
mother sobbing in the bedroom because

643
00:29:22,640 --> 00:29:27,620
this is the worst possible news that's

644
00:29:26,180 --> 00:29:29,539
just one of the people that you speak

645
00:29:27,619 --> 00:29:31,429
with in the vaccination chronicles

646
00:29:29,539 --> 00:29:33,649
Richard how did you find the people to

647
00:29:31,430 --> 00:29:35,330
speak to for the documentary oh it's a

648
00:29:33,650 --> 00:29:37,400
very nice man by the name of Ken MacLeod

649
00:29:35,329 --> 00:29:39,859
who is very interested in this topic but

650
00:29:37,400 --> 00:29:43,400
I I sort of put out a call through my

651
00:29:39,859 --> 00:29:45,199
network so full disclosure I'm in with

652
00:29:43,400 --> 00:29:46,730
the Australian skeptics as well and the

653
00:29:45,200 --> 00:29:49,840
stone skeptics do a lot of work in

654
00:29:46,730 --> 00:29:53,240
fighting myths and misconceptions about

655
00:29:49,839 --> 00:29:56,059
vaccinations and I'd found people of

656

00:29:53,240 --> 00:29:57,349
that generation and older and the older

657
00:29:56,059 --> 00:29:58,909
generation who saw these things

658
00:29:57,349 --> 00:30:02,329
firsthand because those are the people I

659
00:29:58,910 --> 00:30:05,300
really wanted to talk to because i

660
00:30:02,329 --> 00:30:07,129
haven't seen Ward's full of 20 children

661
00:30:05,299 --> 00:30:10,159
in wheelchairs with stricken with polio

662
00:30:07,130 --> 00:30:13,430
I had seen an iron lung but it was in a

663
00:30:10,160 --> 00:30:15,050
museum but before before the whites

664
00:30:13,430 --> 00:30:17,000
producer vaccination they weren't in

665
00:30:15,049 --> 00:30:18,799
museums they were in hospital wards with

666
00:30:17,000 --> 00:30:22,309
and they were fill it full of children

667
00:30:18,799 --> 00:30:24,259
and this is something that we just don't

668
00:30:22,309 --> 00:30:25,819
want to have brought back

669
00:30:24,259 --> 00:30:28,460
my guest is Richard Saunders here at

670
00:30:25,819 --> 00:30:31,849

1233 talking about his short documentary

671

00:30:28,460 --> 00:30:34,069

the vaccination Chronicles I Richard a

672

00:30:31,849 --> 00:30:37,159

couple of years ago I did a series with

673

00:30:34,069 --> 00:30:40,639

a family friend who was undergoing a

674

00:30:37,160 --> 00:30:43,190

huge surgery and radiotherapy for a

675

00:30:40,640 --> 00:30:45,230

throat cancer caused by the human

676

00:30:43,190 --> 00:30:47,210

papillomavirus and of course we we now

677

00:30:45,230 --> 00:30:49,970

from this year our single from the start

678

00:30:47,210 --> 00:30:52,789

of last year seeing Australian boys in

679

00:30:49,970 --> 00:30:56,930

year 7 vaccinated against HPV not just

680

00:30:52,789 --> 00:30:58,700

the the girls and I like science I think

681

00:30:56,930 --> 00:31:00,769

science is a pretty good thing and my

682

00:30:58,700 --> 00:31:02,779

elder son this week came home with his

683

00:31:00,769 --> 00:31:05,839

third little docket saying that he had

684

00:31:02,779 --> 00:31:09,889

now completed his HPV vaccination course

685
00:31:05,839 --> 00:31:11,299
and I could have cried because he of all

686
00:31:09,890 --> 00:31:14,330
the things that he will have to worry

687
00:31:11,299 --> 00:31:16,220
about in his lifetime going through what

688
00:31:14,329 --> 00:31:18,649
our friend went through won't be one of

689
00:31:16,220 --> 00:31:21,200
them absolutely right absolutely right

690
00:31:18,650 --> 00:31:25,220
and use a parent won't ever have to

691
00:31:21,200 --> 00:31:26,600
worry about will my child tomorrow be

692
00:31:25,220 --> 00:31:29,269
struck and down as struck down or

693
00:31:26,599 --> 00:31:33,199
something like polio or tuberculosis why

694
00:31:29,269 --> 00:31:36,889
because we developed the science to

695
00:31:33,200 --> 00:31:38,120
fight these things and what's another

696
00:31:36,890 --> 00:31:40,340
thing in the back of my mind of course

697
00:31:38,119 --> 00:31:42,379
when I was making this was not only to

698
00:31:40,339 --> 00:31:44,000
let young people of today young parents

699

00:31:42,380 --> 00:31:46,520

know that this is what it was like not

700

00:31:44,000 --> 00:31:48,980

so long ago but really to impress upon

701

00:31:46,519 --> 00:31:51,379

them let's all work together to make

702

00:31:48,980 --> 00:31:53,150

sure these days never come back and one

703

00:31:51,380 --> 00:31:56,810

day these diseases will be in the

704

00:31:53,150 --> 00:32:02,030

history books like smallpox why do we

705

00:31:56,809 --> 00:32:03,529

still have a fairly large skeptical

706

00:32:02,029 --> 00:32:07,069

community though who are

707

00:32:03,529 --> 00:32:11,059

anti-vaccination who think that vaccines

708

00:32:07,069 --> 00:32:12,799

cause damage that they can cause death I

709

00:32:11,059 --> 00:32:14,720

mean there are there are potential for

710

00:32:12,799 --> 00:32:17,750

complications and risk in every medical

711

00:32:14,720 --> 00:32:21,529

choice that we make but where does their

712

00:32:17,750 --> 00:32:23,930

degree of fear of a vaccine come from

713

00:32:21,529 --> 00:32:26,240
it's a very good question a lot of it is

714
00:32:23,930 --> 00:32:27,500
to do a simple misinformation on the

715
00:32:26,240 --> 00:32:29,539
internet and you have a nose the

716
00:32:27,500 --> 00:32:33,109
internet is full of interesting

717
00:32:29,539 --> 00:32:36,200
information both good and bad I think it

718
00:32:33,109 --> 00:32:37,979
parley stems from a natural protection

719
00:32:36,200 --> 00:32:39,480
the parent

720
00:32:37,980 --> 00:32:41,579
feel towards their children if there's

721
00:32:39,480 --> 00:32:44,730
even a little bit of doubt sometimes

722
00:32:41,579 --> 00:32:46,798
they're making that doubt cloud their

723
00:32:44,730 --> 00:32:49,558
their better judgment should we say a

724
00:32:46,798 --> 00:32:51,960
lot of it is unfortunately conspiracy

725
00:32:49,558 --> 00:32:53,819
theory mongers a lot of the

726
00:32:51,960 --> 00:32:56,669
anti-vaccination people are convinced

727
00:32:53,819 --> 00:32:58,500

that it's all a big plot by evil

728

00:32:56,669 --> 00:33:01,200

pharmaceutical companies and one world

729

00:32:58,500 --> 00:33:02,700

governments to do to do bad to us when

730

00:33:01,200 --> 00:33:04,140

you look at the figures and you hear the

731

00:33:02,700 --> 00:33:07,740

stories of what it used to be like

732

00:33:04,140 --> 00:33:09,960

compared to now you know those arguments

733

00:33:07,740 --> 00:33:12,089

sort of just just wilt away but you are

734

00:33:09,960 --> 00:33:14,970

absolutely right with every procedure

735

00:33:12,089 --> 00:33:17,459

there's of course there's an element of

736

00:33:14,970 --> 00:33:19,650

risk and we're not for one moment saying

737

00:33:17,460 --> 00:33:21,779

that's not the case seat belts have the

738

00:33:19,650 --> 00:33:24,120

potential to cause risk but we still got

739

00:33:21,779 --> 00:33:26,759

buckle up when we get into the car so

740

00:33:24,119 --> 00:33:29,308

into the future Richard how do we combat

741

00:33:26,759 --> 00:33:33,480

this how do we combat the fact that 20

742
00:33:29,308 --> 00:33:34,980
years ago there was a paper that was

743
00:33:33,480 --> 00:33:36,720
published in the lancet medical journey

744
00:33:34,980 --> 00:33:38,360
journal claiming that there was a link

745
00:33:36,720 --> 00:33:41,370
between the measles mumps and rubella

746
00:33:38,359 --> 00:33:44,339
vaccine and autism and even though the

747
00:33:41,369 --> 00:33:46,529
lancet have now retracted that that

748
00:33:44,339 --> 00:33:49,259
publication in that paper from their

749
00:33:46,529 --> 00:33:51,119
publication there are still many many

750
00:33:49,259 --> 00:33:54,269
people who believe that there is a link

751
00:33:51,119 --> 00:33:57,058
between the MMR vaccine and autism how

752
00:33:54,269 --> 00:34:00,119
do how do we make the falsehoods go away

753
00:33:57,058 --> 00:34:02,339
I wish I knew the good answer to that I

754
00:34:00,119 --> 00:34:04,769
really do I think talking about it on

755
00:34:02,339 --> 00:34:07,168
the radio like we're doing today and I'm

756
00:34:04,769 --> 00:34:09,539
pleased you to social networking and

757
00:34:07,169 --> 00:34:11,579
this is being heard all around the world

758
00:34:09,539 --> 00:34:14,550
things like this help letting people

759
00:34:11,579 --> 00:34:16,739
know that that has been discredited and

760
00:34:14,550 --> 00:34:19,260
that has absolutely been discredited I

761
00:34:16,739 --> 00:34:22,678
hope that my documentary will help when

762
00:34:19,260 --> 00:34:24,690
people discover the horrors that are no

763
00:34:22,679 --> 00:34:27,119
longer faced in our society but are

764
00:34:24,690 --> 00:34:29,579
still present in developing parts of the

765
00:34:27,119 --> 00:34:31,350
world and we can't forget that um we

766
00:34:29,579 --> 00:34:33,750
keep talking about what I think is the

767
00:34:31,349 --> 00:34:35,250
best action we can to do you think it is

768
00:34:33,750 --> 00:34:37,980
as simple as we just don't see these

769
00:34:35,250 --> 00:34:40,079
diseases anymore so therefore we we

770

00:34:37,980 --> 00:34:42,358
don't comprehend how truly devastating

771
00:34:40,079 --> 00:34:43,889
there can be I think that's a large part

772
00:34:42,358 --> 00:34:46,259
of it I mean I can't comprehend that

773
00:34:43,889 --> 00:34:48,899
I've seen historical videos that I have

774
00:34:46,260 --> 00:34:50,490
historical video clips in my documentary

775
00:34:48,898 --> 00:34:51,799
of wards full of sick children which we

776
00:34:50,489 --> 00:34:54,239
don't see anymore

777
00:34:51,800 --> 00:34:57,180
and out of sight out of mind maybe

778
00:34:54,239 --> 00:34:59,009
that's part of the problem but it's good

779
00:34:57,179 --> 00:35:01,949
to remind ourselves to keep our herd

780
00:34:59,010 --> 00:35:04,140
immunity up and keep our vaccinations up

781
00:35:01,949 --> 00:35:05,759
to now Richard with your documentary the

782
00:35:04,139 --> 00:35:07,828
vaccination chronicles you do want

783
00:35:05,760 --> 00:35:10,440
everybody to see it and therefore it's

784
00:35:07,829 --> 00:35:12,810

on YouTube it's the best place for it

785

00:35:10,440 --> 00:35:14,250

it's on YouTube it's free to view well

786

00:35:12,809 --> 00:35:16,289

like everything is on YouTube but it's

787

00:35:14,250 --> 00:35:17,818

free to air publicly if people wish if

788

00:35:16,289 --> 00:35:20,219

they wish to have a copy I'm going to

789

00:35:17,818 --> 00:35:22,559

produce a DVD which will only cost

790

00:35:20,219 --> 00:35:24,598

production costs in other words a couple

791

00:35:22,559 --> 00:35:26,460

of dollars that's the Oviatt posted in

792

00:35:24,599 --> 00:35:28,769

DVD cost i'm not going to make any money

793

00:35:26,460 --> 00:35:31,530

out of this that's not the goal i want

794

00:35:28,769 --> 00:35:33,750

many people to see this and I must say a

795

00:35:31,530 --> 00:35:35,579

wonderful thing has taken place a little

796

00:35:33,750 --> 00:35:38,880

bit unexpected people from all around

797

00:35:35,579 --> 00:35:40,560

the world have chipped in and translated

798

00:35:38,880 --> 00:35:42,630

it into many different languages on

799

00:35:40,559 --> 00:35:44,909

YouTube you can watch it subtitled in

800

00:35:42,630 --> 00:35:48,390

English of course Dutch Turkish crushing

801

00:35:44,909 --> 00:35:51,118

Portuguese Italian Danish German Spanish

802

00:35:48,389 --> 00:35:53,338

is on the way and the DVD will have all

803

00:35:51,119 --> 00:35:55,829

these languages on it too I just people

804

00:35:53,338 --> 00:35:57,779

are good now the people are good aren't

805

00:35:55,829 --> 00:35:59,068

they on the large people are good now

806

00:35:57,780 --> 00:36:00,359

Richard when people though who are

807

00:35:59,068 --> 00:36:02,159

listening go well who's this Richard

808

00:36:00,358 --> 00:36:04,909

Saunders guy and what's qualifies him to

809

00:36:02,159 --> 00:36:07,108

talk about vaccination and immunisation

810

00:36:04,909 --> 00:36:08,909

you roll up your sleeve and put your

811

00:36:07,108 --> 00:36:11,150

money where your mouth is why can why

812

00:36:08,909 --> 00:36:13,789

should people believe what you're saying

813
00:36:11,150 --> 00:36:15,690
you know what people should be

814
00:36:13,789 --> 00:36:17,608
interested in what I'm saying they

815
00:36:15,690 --> 00:36:19,800
should look at the documentary and then

816
00:36:17,608 --> 00:36:22,500
make up their own minds or do their own

817
00:36:19,800 --> 00:36:24,480
research or talk to their GP and see if

818
00:36:22,500 --> 00:36:26,639
their GP and qualified medical

819
00:36:24,480 --> 00:36:31,199
professionals back up what they see or

820
00:36:26,639 --> 00:36:32,969
what I say don't listen to me and simply

821
00:36:31,199 --> 00:36:34,588
take what I'm saying is truth just

822
00:36:32,969 --> 00:36:36,149
because my name is Richard Saunders and

823
00:36:34,588 --> 00:36:37,858
over there you know I'm a skeptical

824
00:36:36,150 --> 00:36:39,990
activist I'm being on TV or whatever the

825
00:36:37,858 --> 00:36:41,429
case may be that's what I hope people

826
00:36:39,989 --> 00:36:43,169
would do but you know I think I'm a

827

00:36:41,429 --> 00:36:45,629
trustworthy guy so eager you've also

828
00:36:43,170 --> 00:36:48,329
spoken to dr. Karl kozel Netsky who is

829
00:36:45,630 --> 00:36:49,858
very trustworthy one of the ABCs own and

830
00:36:48,329 --> 00:36:52,289
from the university of sydney to share

831
00:36:49,858 --> 00:36:54,179
his experience with you too absolutely

832
00:36:52,289 --> 00:36:57,358
got color features on the documentary

833
00:36:54,179 --> 00:36:59,159
and he was very pleased when I put the

834
00:36:57,358 --> 00:37:01,219
idea to him that I'd like to use him he

835
00:36:59,159 --> 00:37:04,969
jumped at the chance and he has got very

836
00:37:01,219 --> 00:37:06,169
interesting stories to tell about the

837
00:37:04,969 --> 00:37:08,059
the early days when he was a young

838
00:37:06,170 --> 00:37:10,730
medical doctor and his encounters with

839
00:37:08,059 --> 00:37:12,559
the vaccine preventable diseases do you

840
00:37:10,730 --> 00:37:15,619
think that perhaps people are putting

841
00:37:12,559 --> 00:37:18,409

their head in the sand about antibiotic

842

00:37:15,619 --> 00:37:22,130

resistance as much as perhaps we are and

843

00:37:18,409 --> 00:37:23,449

maybe more so than vaccination I said

844

00:37:22,130 --> 00:37:25,010

but that's a good point that's the point

845

00:37:23,449 --> 00:37:27,500

I have not covered on the documentary

846

00:37:25,010 --> 00:37:30,560

the documentary reads well there's your

847

00:37:27,500 --> 00:37:32,210

next job my next you might absolutely be

848

00:37:30,559 --> 00:37:33,739

right I think that's that's a whole

849

00:37:32,210 --> 00:37:35,990

other documentary and a whole other

850

00:37:33,739 --> 00:37:37,459

issue I think yeah all right indeed

851

00:37:35,989 --> 00:37:38,719

Richard Saunders terrific to catch up

852

00:37:37,460 --> 00:37:43,099

with you thank you very much for your

853

00:37:38,719 --> 00:37:44,779

time I know that you are all over social

854

00:37:43,099 --> 00:37:46,099

media people can follow you at skeptic

855

00:37:44,780 --> 00:37:48,230

zone on Twitter if they would like to

856
00:37:46,099 --> 00:37:50,059
contact you personally ask you questions

857
00:37:48,230 --> 00:37:51,740
or find out more and we'll share the

858
00:37:50,059 --> 00:37:53,690
links with the vaccination chronicles as

859
00:37:51,739 --> 00:37:55,549
knowledge that's very nice of you in the

860
00:37:53,690 --> 00:37:57,650
easiest way to find the documentary is

861
00:37:55,550 --> 00:38:00,289
simply go to your search engine and type

862
00:37:57,650 --> 00:38:02,150
in vaccination chronicles and it'll pop

863
00:38:00,289 --> 00:38:03,980
up it certainly will Richard terrific to

864
00:38:02,150 --> 00:38:06,108
speak with you madly thank you Richard

865
00:38:03,980 --> 00:38:08,150
Saunders independent filmmaker in public

866
00:38:06,108 --> 00:38:10,250
speaker well known skeptic but talking

867
00:38:08,150 --> 00:38:12,200
about his documentary that he's made

868
00:38:10,250 --> 00:38:14,389
available free for everybody to see

869
00:38:12,199 --> 00:38:17,179
about vaccination called the vaccination

870
00:38:14,389 --> 00:38:22,848
chronicles I can remember as a young

871
00:38:17,179 --> 00:38:25,579
adult heading into Hyde Park barracks in

872
00:38:22,849 --> 00:38:28,789
Sydney and looking at an Exhibition they

873
00:38:25,579 --> 00:38:30,858
had there at the time on smallpox and

874
00:38:28,789 --> 00:38:33,588
what smallpox did to the population what

875
00:38:30,858 --> 00:38:35,029
it did to people and I will never quite

876
00:38:33,588 --> 00:38:36,889
I don't think I'll ever quite forget

877
00:38:35,030 --> 00:38:40,070
some of the images and things that were

878
00:38:36,889 --> 00:38:42,170
on display during that exhibition if

879
00:38:40,070 --> 00:38:44,599
you'd like to know more call us 1333

880
00:38:42,170 --> 00:38:46,490
1233 or put the vaccination chronicles

881
00:38:44,599 --> 00:38:49,269
into your search engine and you'll find

882
00:38:46,489 --> 00:38:49,269
it easy is there

883
00:38:53,190 --> 00:38:59,950
hey guys Jay novela here simple question

884

00:38:56,530 --> 00:39:01,809
where will you be this November because

885
00:38:59,949 --> 00:39:03,548
I know I'm going to be at the Australian

886
00:39:01,809 --> 00:39:05,170
skeptics national convention in Sydney

887
00:39:03,548 --> 00:39:06,519
and so will all the rest of us from the

888
00:39:05,170 --> 00:39:09,608
skeptics guide to the universe including

889
00:39:06,519 --> 00:39:11,798
George Rob and Dick Smith and dr. Karl

890
00:39:09,608 --> 00:39:14,798
and dr. Reggie and lots of other awesome

891
00:39:11,798 --> 00:39:16,929
people why aren't you going did you not

892
00:39:14,798 --> 00:39:18,519
sign up yet get on there and sign up

893
00:39:16,929 --> 00:39:20,500
this is going to be some epic stuff here

894
00:39:18,519 --> 00:39:25,739
you don't want to miss it go to skeptics

895
00:39:20,500 --> 00:39:25,739
com au forward slash convention

896
00:39:34,510 --> 00:39:38,950
thank you for listening to the skeptic

897
00:39:36,920 --> 00:39:42,050
zone yes another short episode this week

898
00:39:38,949 --> 00:39:43,669

for those people on the train and you've

899

00:39:42,050 --> 00:39:46,460

realized that you're not at your station

900

00:39:43,670 --> 00:39:49,070

yet in the show's almost over sorry

901

00:39:46,460 --> 00:39:52,639

about that very busy couple of weeks for

902

00:39:49,070 --> 00:39:55,220

me with lots of work here and there so I

903

00:39:52,639 --> 00:39:57,319

wasn't able to get to a very interesting

904

00:39:55,219 --> 00:39:59,779

interview that I wanted to get to this

905

00:39:57,320 --> 00:40:02,720

week but I'll get to it in the coming

906

00:39:59,780 --> 00:40:05,030

weekend get it to you next week it's

907

00:40:02,719 --> 00:40:08,230

with an amazing now I'm not going to

908

00:40:05,030 --> 00:40:08,230

tell you and I'll leave you in suspense

909

00:40:09,489 --> 00:40:15,349

trust me it's a very interesting person

910

00:40:12,789 --> 00:40:16,579

well that's what they tell me they say

911

00:40:15,349 --> 00:40:19,219

they're interesting them I'll believe

912

00:40:16,579 --> 00:40:22,219

that and in the coming week I hope do I

913
00:40:19,219 --> 00:40:25,579
have lunch with me nod to the fat with

914
00:40:22,219 --> 00:40:28,730
him a big shout out to my friends up in

915
00:40:25,579 --> 00:40:30,650
the northern rivers area there Heidi

916
00:40:28,730 --> 00:40:33,920
Robinson and her friends in northern

917
00:40:30,650 --> 00:40:35,420
rivers vaccination supporters group who

918
00:40:33,920 --> 00:40:38,079
do wonderful things like put up their

919
00:40:35,420 --> 00:40:40,909
flyers around North Coast area

920
00:40:38,079 --> 00:40:45,670
encouraging people to vaccinate well

921
00:40:40,909 --> 00:40:48,319
done well done indeed I think a lot of

922
00:40:45,670 --> 00:40:51,639
chemtrails up in that part of the world

923
00:40:48,320 --> 00:40:54,200
hmm anyway congratulations to that group

924
00:40:51,639 --> 00:40:55,969
powering on doing all sorts of good

925
00:40:54,199 --> 00:40:58,009
things in fact I think we'll have to

926
00:40:55,969 --> 00:41:01,909
interview them before long again to get

927
00:40:58,010 --> 00:41:05,000
an update on their progress in that that

928
00:41:01,909 --> 00:41:08,269
part of the country bad for this week

929
00:41:05,000 --> 00:41:14,900
this is Richard Saunders signing off

930
00:41:08,269 --> 00:41:17,349
from Sydney Australia you've been

931
00:41:14,900 --> 00:41:21,880
listening to the skeptic zone

932
00:41:17,349 --> 00:41:25,180
visit our website at [www.skeptic zoomtv](http://www.skepticzoomtv.com)

933
00:41:21,880 --> 00:41:27,838
for comments contacts and extra video

934
00:41:25,179 --> 00:41:27,838
reports

935
00:41:30,440 --> 00:41:32,500
you