

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

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

3
00:00:21,920 --> 00:00:31,170
it's the septic zone for the 18th of jun

4
00:00:25,519 --> 00:00:32,719
2011 episode number 139 Richardson is

5
00:00:31,170 --> 00:00:36,770
here with you from Sydney Australia

6
00:00:32,719 --> 00:00:42,600
today's episode can only be described as

7
00:00:36,770 --> 00:00:45,390
mixed very mixed it's like a mishmash of

8
00:00:42,600 --> 00:00:47,130
lots of different ideas all cobbled

9
00:00:45,390 --> 00:00:50,549
together we're going to start off with

10
00:00:47,130 --> 00:00:53,750
dr. Richie reports and a lecture she

11
00:00:50,549 --> 00:00:59,578
recorded by barry marshall all about

12
00:00:53,750 --> 00:01:03,030
ulcers yes ulcers really worth listening

13
00:00:59,579 --> 00:01:05,609
to following that we have Phil cam who

14
00:01:03,030 --> 00:01:08,728
gave a talk at Sydney skeptics in the

15
00:01:05,609 --> 00:01:12,718
pub about scripture and ethics classes

16
00:01:08,728 --> 00:01:15,239
in state schools now for many years when

17
00:01:12,718 --> 00:01:17,548
I was going to school once a week for

18
00:01:15,239 --> 00:01:19,679
about an hour or half an hour I had what

19
00:01:17,549 --> 00:01:22,259
they called scripture at the time where

20
00:01:19,679 --> 00:01:24,329
a religious representative would come in

21
00:01:22,259 --> 00:01:27,629
and well basically talk to us about

22
00:01:24,328 --> 00:01:29,879
religion in my case most of the time it

23
00:01:27,629 --> 00:01:33,718
was my own father who happened to be the

24
00:01:29,879 --> 00:01:36,748
local minister anyway that talk by Phil

25
00:01:33,718 --> 00:01:38,848
cam coming up soon and after that we

26
00:01:36,748 --> 00:01:40,858
have a clip from the 60 minutes program

27
00:01:38,849 --> 00:01:43,978
here in Australia who ran a story

28
00:01:40,858 --> 00:01:46,828
critical more than critical about the

29

00:01:43,978 --> 00:01:50,368
anti-vaccination movement the audio from

30
00:01:46,828 --> 00:01:52,649
this is just incredible here Veera

31
00:01:50,368 --> 00:01:55,828
schreibman and Bronwyn Hancock to

32
00:01:52,649 --> 00:01:58,560
staunch anti-vaxxers basically laying

33
00:01:55,828 --> 00:02:02,098
their cards on the table wait'll you

34
00:01:58,560 --> 00:02:04,649
hear this audio and to wind up the show

35
00:02:02,099 --> 00:02:08,520
we're going to have a complete change a

36
00:02:04,649 --> 00:02:10,949
completely different mindset Maynard's

37
00:02:08,520 --> 00:02:13,290
going to speak to Bill Daley Bill Daley

38
00:02:10,949 --> 00:02:16,560
Bill Daley you ask who's bill daley Bill

39
00:02:13,289 --> 00:02:17,519
Daley better known as major Roger Healey

40
00:02:16,560 --> 00:02:20,909
from I jury

41
00:02:17,520 --> 00:02:23,460
of Jeannie yes I know it's left field

42
00:02:20,909 --> 00:02:25,379
it's a great interview just something a

43
00:02:23,460 --> 00:02:26,939

little light-hearted and that's followed

44

00:02:25,379 --> 00:02:30,359

by something even more lighthearted

45

00:02:26,939 --> 00:02:34,039

where may nod talks about global wind

46

00:02:30,360 --> 00:02:37,380

day something at the end of the show

47

00:02:34,039 --> 00:02:38,400

just to have a laugh well I'm going to

48

00:02:37,379 --> 00:02:40,919

have a laugh I'm going to race

49

00:02:38,400 --> 00:02:44,849

downstairs grab another root beer have a

50

00:02:40,919 --> 00:02:47,000

laugh and let you listen to the skeptics

51

00:02:44,849 --> 00:02:47,000

out

52

00:03:00,569 --> 00:03:09,099

now it's time for dr. Rachel reports

53

00:03:03,969 --> 00:03:12,159

with dr. Rachel Dunlop hello listeners

54

00:03:09,099 --> 00:03:13,870

and welcome to dr. Richie reports well

55

00:03:12,159 --> 00:03:16,780

this week I present for you part of a

56

00:03:13,870 --> 00:03:19,060

lecture given by dr. Barry Marshall now

57

00:03:16,780 --> 00:03:21,459

many of you may know this name he was

58
00:03:19,060 --> 00:03:24,180
awarded the nobel prize in physiology or

59
00:03:21,459 --> 00:03:27,099
medicine along with dr. robin warren in

60
00:03:24,180 --> 00:03:29,650
2005 for his discovery that the

61
00:03:27,099 --> 00:03:32,739
bacterium hello back to pylori is the

62
00:03:29,650 --> 00:03:34,750
cause of most peptic ulcers now this

63
00:03:32,739 --> 00:03:36,670
finding reversed decades of medical

64
00:03:34,750 --> 00:03:39,280
doctrine which stated that alters were

65
00:03:36,669 --> 00:03:43,119
caused by stress spicy foods or too much

66
00:03:39,280 --> 00:03:44,979
acid now Barry Marshall is a native of

67
00:03:43,120 --> 00:03:47,950
Western Australia and he received his

68
00:03:44,979 --> 00:03:50,189
degree in surgery and medicine in 1975

69
00:03:47,949 --> 00:03:52,509
from the University of Western Australia

70
00:03:50,189 --> 00:03:54,849
he currently holds a position of

71
00:03:52,509 --> 00:03:57,969
professor of clinical microbiology at

72
00:03:54,849 --> 00:04:00,909
the same University now along with the

73
00:03:57,969 --> 00:04:03,009
Nobel Prize in 2005 Barry is a highly

74
00:04:00,909 --> 00:04:04,959
decorated physician who was also

75
00:04:03,009 --> 00:04:08,349
appointed a companion of the order of

76
00:04:04,959 --> 00:04:10,000
australia in 2007 has been awarded an

77
00:04:08,349 --> 00:04:13,150
honorary doctor of science from the

78
00:04:10,000 --> 00:04:16,209
University of Oxford in 2009 along with

79
00:04:13,150 --> 00:04:17,918
many and varied other awards the lecture

80
00:04:16,209 --> 00:04:19,780
you'll hear today is part of a talk that

81
00:04:17,918 --> 00:04:21,279
Barry gave at the dinner for the

82
00:04:19,779 --> 00:04:24,219
Australian science and medical research

83
00:04:21,279 --> 00:04:26,709
week celebrations held here in Sydney in

84
00:04:24,220 --> 00:04:28,810
early June now I apologize for some

85
00:04:26,709 --> 00:04:30,969
clinking cutlery and food noises at the

86

00:04:28,810 --> 00:04:32,560
beginning of this talk but it only lasts

87
00:04:30,970 --> 00:04:34,660
for a short time and I urge you to

88
00:04:32,560 --> 00:04:37,540
persist because the content is really

89
00:04:34,660 --> 00:04:39,790
really fascinating you'll also hear in

90
00:04:37,540 --> 00:04:42,280
this lecture Barry refer to a cartoon

91
00:04:39,790 --> 00:04:44,740
which depicts him drinking a flask full

92
00:04:42,279 --> 00:04:47,168
of green muck containing hello back to

93
00:04:44,740 --> 00:04:49,990
pylori in an effort to prove that it

94
00:04:47,168 --> 00:04:52,329
actually causes stomach ulcers if you'd

95
00:04:49,990 --> 00:04:54,310
like to see the entire cartoon there's a

96
00:04:52,329 --> 00:04:56,379
link to the PDF in our newsletter for

97
00:04:54,310 --> 00:04:58,810
this week and you can find a link to the

98
00:04:56,379 --> 00:05:01,629
newsletter on dub dub dub skeptic zone

99
00:04:58,810 --> 00:05:05,089
TV and if you're on twitter you can

100
00:05:01,629 --> 00:05:08,329

follow Barry at be a rja

101

00:05:05,089 --> 00:05:10,250

ma r or bar Gemma I hope you enjoyed

102

00:05:08,329 --> 00:05:12,289

this lecture as much as I did and until

103

00:05:10,250 --> 00:05:17,720

next time this has been dr. Richie

104

00:05:12,290 --> 00:05:21,110

reports so we started Alfred Nobel

105

00:05:17,720 --> 00:05:23,120

displacement from his own biography and

106

00:05:21,110 --> 00:05:26,960

he was unwell all his life no he

107

00:05:23,120 --> 00:05:28,340

discovered he made nitroglycerin is to

108

00:05:26,959 --> 00:05:31,279

shift all around the world including

109

00:05:28,339 --> 00:05:33,259

Australia with dangerous everybody said

110

00:05:31,279 --> 00:05:35,809

the opportunities and he came up with

111

00:05:33,259 --> 00:05:37,610

the site by the nitroglycerin which was

112

00:05:35,810 --> 00:05:39,829

going to make it makes a good play and

113

00:05:37,610 --> 00:05:42,439

fuel oil or something and then he like

114

00:05:39,829 --> 00:05:46,029

plasticine but it doesn't go off whole

115
00:05:42,439 --> 00:05:48,350
time and he invented blasting caps and

116
00:05:46,029 --> 00:05:50,089
safety fuse so with that combination

117
00:05:48,350 --> 00:05:52,520
which she praised everything at the

118
00:05:50,089 --> 00:05:57,439
novell dynamite company I think it still

119
00:05:52,519 --> 00:06:00,079
exists to this day and one or well but

120
00:05:57,439 --> 00:06:02,750
it was a big typhoon that really had no

121
00:06:00,079 --> 00:06:05,120
pleasure out of his rich mob killed of

122
00:06:02,750 --> 00:06:07,310
lifestyle because he could never enjoy a

123
00:06:05,120 --> 00:06:09,228
meal he always had to adjust stomach

124
00:06:07,310 --> 00:06:11,839
pain all the time i used to go after

125
00:06:09,228 --> 00:06:14,478
these mysterious water treatments in

126
00:06:11,839 --> 00:06:17,989
poland and radioactive water or all I

127
00:06:14,478 --> 00:06:21,409
kind of stuff but nothing anybody didn't

128
00:06:17,990 --> 00:06:23,449
play in do this to even notice so he

129
00:06:21,410 --> 00:06:26,330
finally passed away well I think died

130
00:06:23,449 --> 00:06:28,879
from my he had a myocardial infarction

131
00:06:26,329 --> 00:06:30,319
and dryer and a stroke and that's

132
00:06:28,879 --> 00:06:32,120
actually what used to happen to people

133
00:06:30,319 --> 00:06:34,098
with ulcers because there would be one

134
00:06:32,120 --> 00:06:36,860
of these special diets course if he dies

135
00:06:34,098 --> 00:06:39,139
they would be treating cream and milk

136
00:06:36,860 --> 00:06:41,090
and butter in kind of food instead of

137
00:06:39,139 --> 00:06:43,550
having a state they have to have east on

138
00:06:41,089 --> 00:06:45,739
a hay or whatever but all this creamy

139
00:06:43,550 --> 00:06:48,348
foods and so don't get accelerated

140
00:06:45,740 --> 00:06:51,110
atherosclerosis and people with offices

141
00:06:48,348 --> 00:06:53,029
to die often not from there also that

142
00:06:51,110 --> 00:06:54,710
I've after I sporadic disease so there

143

00:06:53,029 --> 00:06:56,719
was in the Lich's those losses

144
00:06:54,709 --> 00:06:58,399
mysterious connection so here's his

145
00:06:56,720 --> 00:07:00,139
biography and it said that he always

146
00:06:58,399 --> 00:07:03,288
complained of indigestion headaches and

147
00:07:00,139 --> 00:07:05,180
occasional spells of depression and died

148
00:07:03,288 --> 00:07:08,990
he was overworked or under serious

149
00:07:05,180 --> 00:07:10,759
mental stress and so this is a strategy

150
00:07:08,990 --> 00:07:12,288
doctor to have for hundreds of years

151
00:07:10,759 --> 00:07:13,788
when you go to the doctor you can't

152
00:07:12,288 --> 00:07:15,769
figure out what's wrong with you he

153
00:07:13,788 --> 00:07:16,229
doesn't tell you that these bits on

154
00:07:15,769 --> 00:07:18,539
success

155
00:07:16,230 --> 00:07:20,189
I think you're under serious mental

156
00:07:18,540 --> 00:07:23,189
stress and that is the cause of your

157
00:07:20,189 --> 00:07:25,469

illness so that then absolves him from

158

00:07:23,189 --> 00:07:27,480

Manning to make a proper diagnosis and

159

00:07:25,470 --> 00:07:29,910

puts the oddness of the treatment and

160

00:07:27,480 --> 00:07:31,800

the cure of the condition on you and you

161

00:07:29,910 --> 00:07:33,390

can't possibly get rid of the stress in

162

00:07:31,800 --> 00:07:36,629

your life we all have it is just a

163

00:07:33,389 --> 00:07:38,779

natural thing but now it's the problem

164

00:07:36,629 --> 00:07:41,250

the reason he cannot fix your ulcer or

165

00:07:38,779 --> 00:07:42,689

whatever it is irritable bowel would be

166

00:07:41,250 --> 00:07:45,509

good when I see in gastroenterology

167

00:07:42,689 --> 00:07:47,459

clinics is because you're under too much

168

00:07:45,509 --> 00:07:49,409

stress and obviously I come fix that I'm

169

00:07:47,459 --> 00:07:53,279

just a doctor and it's your fault your

170

00:07:49,410 --> 00:07:56,280

problem so the classic quintessential

171

00:07:53,279 --> 00:07:58,709

stress disease which I love to bring

172
00:07:56,279 --> 00:08:00,689
down was actually peptic ulcer used to

173
00:07:58,709 --> 00:08:03,419
run in families but did have this

174
00:08:00,689 --> 00:08:04,969
awesome personality if you had ulcers

175
00:08:03,420 --> 00:08:08,610
but that was because the main

176
00:08:04,970 --> 00:08:10,140
tranquilizer food there is no work very

177
00:08:08,610 --> 00:08:12,270
well if you had an ulcer and so you

178
00:08:10,139 --> 00:08:16,560
would get this stressed hyperactive

179
00:08:12,269 --> 00:08:18,599
personality type a person ID I guess run

180
00:08:16,560 --> 00:08:20,490
in families worse with smoking it would

181
00:08:18,600 --> 00:08:23,100
happen in the spring during the exam

182
00:08:20,490 --> 00:08:24,810
time and why was that was it stress well

183
00:08:23,100 --> 00:08:27,360
when I was under stress during an exam

184
00:08:24,810 --> 00:08:29,639
time is to miss meals I would stay at

185
00:08:27,360 --> 00:08:31,410
the dorm rooms rather than a time I'd be

186
00:08:29,639 --> 00:08:33,509
drinking coffee and a smoke e-cigarettes

187
00:08:31,410 --> 00:08:35,550
all night and all that kind of stuff so

188
00:08:33,509 --> 00:08:38,009
I can see if I had a tendency to an

189
00:08:35,549 --> 00:08:41,069
ulcer I would develop it during exam

190
00:08:38,009 --> 00:08:44,279
time when I was in college and so this

191
00:08:41,070 --> 00:08:46,830
these seem depending and stress so now

192
00:08:44,279 --> 00:08:48,509
we know that stress didn't cause ulcers

193
00:08:46,830 --> 00:08:51,150
but it was very difficult to convince

194
00:08:48,509 --> 00:08:55,439
anybody that stressed in off course also

195
00:08:51,149 --> 00:08:57,480
is just as bacteria so in retrospect and

196
00:08:55,440 --> 00:08:59,760
you could do you know innate and 90 you

197
00:08:57,480 --> 00:09:01,920
couldn't do an endoscopy so the only way

198
00:08:59,759 --> 00:09:04,830
you could actually diagnosis was that

199
00:09:01,919 --> 00:09:06,329
post-mortem so poor old Alfred I Valley

200

00:09:04,830 --> 00:09:09,360
didn't even have a post-mortem on that

201
00:09:06,330 --> 00:09:12,930
think so they didn't really happen and

202
00:09:09,360 --> 00:09:15,690
so in the 21st century stress is still a

203
00:09:12,929 --> 00:09:18,000
great excuse for idiopathic conditions

204
00:09:15,690 --> 00:09:18,510
and I say to young people in doing any

205
00:09:18,000 --> 00:09:20,220
research

206
00:09:18,509 --> 00:09:22,559
you ever go to a doctor and he says it's

207
00:09:20,220 --> 00:09:25,080
called my stress you're thinking in the

208
00:09:22,559 --> 00:09:27,239
back of my back your head if I find out

209
00:09:25,080 --> 00:09:30,930
the real cause there's a Nobel Prize at

210
00:09:27,240 --> 00:09:33,120
math so this is why there's still a few

211
00:09:30,929 --> 00:09:36,750
Nobel prizes out there in clinical

212
00:09:33,120 --> 00:09:39,750
medicine why is it difficult to have new

213
00:09:36,750 --> 00:09:42,899
discoveries and new medical discoveries

214
00:09:39,750 --> 00:09:45,750

particularly accepted and the man if

215

00:09:42,899 --> 00:09:47,610

that is Dan Boston who was the librarian

216

00:09:45,750 --> 00:09:49,350

for the US Congress and he said the

217

00:09:47,610 --> 00:09:51,360

greatest obstacle to knowledge it's not

218

00:09:49,350 --> 00:09:53,730

ignorance it's the illusion of knowledge

219

00:09:51,360 --> 00:09:55,259

so if everybody thinks they already know

220

00:09:53,730 --> 00:09:57,420

the answer they're not looking for

221

00:09:55,259 --> 00:09:59,580

another answer and they're not receptive

222

00:09:57,419 --> 00:10:01,979

to the innovation that you're producing

223

00:09:59,580 --> 00:10:03,870

you're saying you create you're creating

224

00:10:01,980 --> 00:10:06,930

an invention without a use or without

225

00:10:03,870 --> 00:10:10,320

any need to heaven and swords there

226

00:10:06,929 --> 00:10:12,509

we've got tagamet acid blockers we know

227

00:10:10,320 --> 00:10:14,510

stress causes ulcers too much acid we

228

00:10:12,509 --> 00:10:16,830

don't need another course which is this

229
00:10:14,509 --> 00:10:20,009
bacteria which must be such the fine

230
00:10:16,830 --> 00:10:22,530
print and I'm saying no no ninety-five

231
00:10:20,009 --> 00:10:24,960
percent of ulcers of these new bacterial

232
00:10:22,529 --> 00:10:26,549
ones they say get out of it so here's

233
00:10:24,960 --> 00:10:28,440
Warren's original observation the

234
00:10:26,549 --> 00:10:30,949
bacteria's sticking all over the cells

235
00:10:28,440 --> 00:10:33,180
of the stomach and it's the little black

236
00:10:30,950 --> 00:10:34,680
Helicobacter there so you can see you're

237
00:10:33,179 --> 00:10:36,269
a microbiologist you can see straight

238
00:10:34,679 --> 00:10:38,429
away that's a pure culture of bacteria

239
00:10:36,269 --> 00:10:42,000
they're not wash down there through

240
00:10:38,429 --> 00:10:44,579
email and this is what I look like this

241
00:10:42,000 --> 00:10:46,679
is a duodenal ulcer this is do it in la

242
00:10:44,580 --> 00:10:48,990
severe a bleeding potentially fatal

243
00:10:46,679 --> 00:10:50,729
awesome and then here's a gastric ulcer

244
00:10:48,990 --> 00:10:53,639
in the stomach which could move right

245
00:10:50,730 --> 00:10:56,370
through here peritonitis so Warren and I

246
00:10:53,639 --> 00:10:58,980
we started to find out who had these

247
00:10:56,370 --> 00:11:01,769
bacteria we looked at a hundred people

248
00:10:58,980 --> 00:11:04,500
who were coming to have the scope down

249
00:11:01,769 --> 00:11:05,759
for various conditions notice those we

250
00:11:04,500 --> 00:11:07,860
always used to have to have a hundred

251
00:11:05,759 --> 00:11:09,870
people in our clinical research because

252
00:11:07,860 --> 00:11:11,370
we didn't have a computer but if we had

253
00:11:09,870 --> 00:11:14,590
a hundred in the study we could easily

254
00:11:11,370 --> 00:11:17,409
say are you thirteen percent

255
00:11:14,590 --> 00:11:19,420
the a fifty eight percent so very easy

256
00:11:17,409 --> 00:11:21,610
to get the tables correct with the

257

00:11:19,419 --> 00:11:23,799
government so fifty-eight percent had

258
00:11:21,610 --> 00:11:26,919
the bacteria but if you had a duodenal

259
00:11:23,799 --> 00:11:29,649
also good hanging out of thirteen i 100%

260
00:11:26,919 --> 00:11:32,709
or gastric also seventy-seven percent so

261
00:11:29,649 --> 00:11:34,360
that was significantly different and so

262
00:11:32,710 --> 00:11:36,910
we had an association between the

263
00:11:34,360 --> 00:11:38,680
bacteria and ulcers but a very strong

264
00:11:36,909 --> 00:11:40,169
association the only way you get a

265
00:11:38,679 --> 00:11:42,609
hundred percent in any medical

266
00:11:40,169 --> 00:11:44,469
experiment is if you faked your results

267
00:11:42,610 --> 00:11:48,159
as far as i was concerned one hundred

268
00:11:44,470 --> 00:11:51,160
percent in any kind of data is rubbish

269
00:11:48,159 --> 00:11:53,139
and so we set out to find out what was

270
00:11:51,159 --> 00:11:55,689
going on figure out why these bacteria

271
00:11:53,139 --> 00:11:57,429

can survive in answer to cetera and we

272

00:11:55,690 --> 00:11:59,380

try to publish it so that the question

273

00:11:57,429 --> 00:12:02,289

would be though on one side you've got

274

00:11:59,379 --> 00:12:05,019

these companies making three billion

275

00:12:02,289 --> 00:12:07,419

dollars a year global companies millions

276

00:12:05,019 --> 00:12:09,100

of people taking the medication stress

277

00:12:07,419 --> 00:12:10,149

cause i'll sit on the other side you've

278

00:12:09,100 --> 00:12:11,950

got two guys in western australia

279

00:12:10,149 --> 00:12:14,769

publishing their first paper in The

280

00:12:11,950 --> 00:12:16,960

Lancet on the basis of thirteen patients

281

00:12:14,769 --> 00:12:19,990

would the world except that you cause

282

00:12:16,960 --> 00:12:22,720

for answers and so it's just no way but

283

00:12:19,990 --> 00:12:24,460

in my naivety I spoke to warrant at

284

00:12:22,720 --> 00:12:25,990

dinner one night and we reckoned we were

285

00:12:24,460 --> 00:12:28,870

going to win the Nobel Prize in about

286
00:12:25,990 --> 00:12:32,649
nineteen eighty six we were not

287
00:12:28,870 --> 00:12:34,240
expecting a 20-year way so there we are

288
00:12:32,649 --> 00:12:37,449
we did we were pretty confident because

289
00:12:34,240 --> 00:12:39,639
we found that other people had

290
00:12:37,450 --> 00:12:43,629
discovered stomach bacteria before and

291
00:12:39,639 --> 00:12:46,000
the famous one is this I saw sir Owen an

292
00:12:43,629 --> 00:12:47,710
anatomist and he actually studied the

293
00:12:46,000 --> 00:12:49,690
red he figured out the red cells

294
00:12:47,710 --> 00:12:52,030
actually actually had nucleated

295
00:12:49,690 --> 00:12:54,220
precursors in the bone marrow so people

296
00:12:52,029 --> 00:12:55,870
used to say you don't need a nucleus to

297
00:12:54,220 --> 00:12:57,519
pepper dividing sell the rule of red

298
00:12:55,870 --> 00:12:59,740
cells and he said oh no they have

299
00:12:57,519 --> 00:13:01,779
nucleated red produced in the Marrow so he

300
00:12:59,740 --> 00:13:04,570
was already famous but the other thing

301
00:13:01,779 --> 00:13:07,209
he said acid torrent spirochetes living

302
00:13:04,570 --> 00:13:09,580
the dog stomach so even a hundred years

303
00:13:07,210 --> 00:13:11,680
before we came on the scene was in the

304
00:13:09,580 --> 00:13:14,230
literature that bacteria could live in

305
00:13:11,679 --> 00:13:16,779
the stomach of animals like cats and

306
00:13:14,230 --> 00:13:18,580
dogs and kasasa wrote had shown that see

307
00:13:16,779 --> 00:13:20,500
the spirochetes they're inside Bryant

308
00:13:18,580 --> 00:13:22,500
ourselves anyway so we were fairly

309
00:13:20,500 --> 00:13:24,139
confident we submitted our paper to the

310
00:13:22,500 --> 00:13:26,299
Australian meeting

311
00:13:24,139 --> 00:13:28,789
and they wrote us a letter back saying

312
00:13:26,299 --> 00:13:30,559
Andy dr. Marshall we regret your

313
00:13:28,789 --> 00:13:33,980
research paper was not accepted for

314

00:13:30,559 --> 00:13:36,169
presentation we didn't even get a poster

315
00:13:33,980 --> 00:13:37,789
the number of abstracts we receive

316
00:13:36,169 --> 00:13:39,709
continues to increase it for this

317
00:13:37,789 --> 00:13:42,529
meeting 67 were submitted we could only

318
00:13:39,710 --> 00:13:46,820
accept 50 60 don't feel so bad then we

319
00:13:42,529 --> 00:13:48,919
wanted to that will worsen you of course

320
00:13:46,820 --> 00:13:52,070
I was pretty depressed about that but

321
00:13:48,919 --> 00:13:54,639
luckily I did keep that rejection letter

322
00:13:52,070 --> 00:13:58,400
so I say to young people in science

323
00:13:54,639 --> 00:14:00,019
extract rejection and keep that

324
00:13:58,399 --> 00:14:02,299
rejection letter you put it in a brown

325
00:14:00,019 --> 00:14:04,759
envelope keep it in the body draw of you

326
00:14:02,299 --> 00:14:06,049
if you have your bedroom outdoor you

327
00:14:04,759 --> 00:14:08,059
don't have to read it it's too

328
00:14:06,049 --> 00:14:10,250

depressing but keep it there because

329

00:14:08,059 --> 00:14:12,939

here's lay that you be able to show copy

330

00:14:10,250 --> 00:14:15,289

of that lecture in your speech if you

331

00:14:12,940 --> 00:14:17,840

succeed and you turn out to be right

332

00:14:15,289 --> 00:14:19,639

unable to find a suitable animal model

333

00:14:17,840 --> 00:14:23,060

Marshall must experiment on himself this

334

00:14:19,639 --> 00:14:24,980

is a quote from is what a comment and

335

00:14:23,059 --> 00:14:27,289

this is the product put out by the avid

336

00:14:24,980 --> 00:14:29,090

company when we discovered the

337

00:14:27,289 --> 00:14:31,339

antibiotic that kills Helicobacter

338

00:14:29,090 --> 00:14:33,050

clarithromycin they came to me and said

339

00:14:31,340 --> 00:14:34,399

what do you want to make this comic

340

00:14:33,049 --> 00:14:35,779

we're going to give it to every doctor

341

00:14:34,399 --> 00:14:39,079

in America so they know how to treat

342

00:14:35,779 --> 00:14:41,299

ulcers there's 150,000 copies some

343
00:14:39,080 --> 00:14:43,160
number like that anyway and they said

344
00:14:41,299 --> 00:14:44,750
the comic strip artist over to hit the

345
00:14:43,159 --> 00:14:46,969
interview me and he was the same guy who

346
00:14:44,750 --> 00:14:49,820
does the incredible hulk for Marvel

347
00:14:46,970 --> 00:14:51,529
Marvel Comics and so I didn't actually

348
00:14:49,820 --> 00:14:53,750
have to bust my tissue open or anything

349
00:14:51,529 --> 00:14:56,720
but I did have to drink a very green

350
00:14:53,750 --> 00:14:58,220
looking brew of helicobacter pylori the

351
00:14:56,720 --> 00:15:01,120
proved that could affect a healthy

352
00:14:58,220 --> 00:15:04,250
person and course ulcers and so I

353
00:15:01,120 --> 00:15:06,500
surprisingly I did have an illness and

354
00:15:04,250 --> 00:15:09,409
after five days of started vomiting and

355
00:15:06,500 --> 00:15:12,409
that went on for a while I was getting

356
00:15:09,409 --> 00:15:16,730
all worried about me and finally we took

357
00:15:12,409 --> 00:15:18,829
a biopsy and long behold very very yelps

358
00:15:16,730 --> 00:15:21,019
various very heavy infection with

359
00:15:18,830 --> 00:15:22,910
Helicobacter sigh had proved that normal

360
00:15:21,019 --> 00:15:25,429
person could catch these bacteria you

361
00:15:22,909 --> 00:15:27,289
didn't have to have an ulcer first so it

362
00:15:25,429 --> 00:15:29,719
was possible bacteria came first and

363
00:15:27,289 --> 00:15:30,730
they also came as a consequence and one

364
00:15:29,720 --> 00:15:32,560
thing led to another

365
00:15:30,730 --> 00:15:34,240
and that that was published as a

366
00:15:32,559 --> 00:15:36,338
hypothesis in the medical journal in

367
00:15:34,240 --> 00:15:38,350
Australia so the edge of medical journal

368
00:15:36,339 --> 00:15:41,940
Australia really stuck his neck out

369
00:15:38,350 --> 00:15:45,519
because it was ten years before people

370
00:15:41,940 --> 00:15:48,190
said it's true and then went back to the

371

00:15:45,519 --> 00:15:51,639
medical journals Australia and read it

372
00:15:48,190 --> 00:15:56,139
and it was exactly right and so that is

373
00:15:51,639 --> 00:15:57,730
the second most cited paper ever in the

374
00:15:56,139 --> 00:15:59,169
medical journal Australia they are the

375
00:15:57,730 --> 00:16:02,079
number one paper is actually the

376
00:15:59,169 --> 00:16:04,179
discovery of lithium or a manic

377
00:16:02,078 --> 00:16:06,039
depression so why did it take 23 years

378
00:16:04,179 --> 00:16:09,278
to win the Nobel verizon is an

379
00:16:06,039 --> 00:16:11,559
interesting coincidence not 1882 Robert

380
00:16:09,278 --> 00:16:14,139
cocky cultured the TB bacilli nobody

381
00:16:11,559 --> 00:16:17,138
believed that they caused DB go to

382
00:16:14,139 --> 00:16:19,778
comment so he did this anything

383
00:16:17,139 --> 00:16:22,060
experiment with any pics got TV after

384
00:16:19,778 --> 00:16:24,129
being leavin the bacteria and he called

385
00:16:22,059 --> 00:16:26,379

that Koch's postulates the rules

386

00:16:24,129 --> 00:16:30,370

required to prove bacterias harmful you

387

00:16:26,379 --> 00:16:34,870

know about that 1884 and then in 1905 he

388

00:16:30,370 --> 00:16:39,159

won the Nobel Prize for the infection TV

389

00:16:34,870 --> 00:16:41,440

and 1982 Warren and martial culture

390

00:16:39,159 --> 00:16:44,379

bacteria the first iconic effective

391

00:16:41,440 --> 00:16:46,350

pylori and it was nineteen eighty-four

392

00:16:44,379 --> 00:16:49,419

was the year that I Drake the bacteria

393

00:16:46,350 --> 00:16:51,310

100 years after Koch's postulates were

394

00:16:49,419 --> 00:16:55,120

described and so we think that

395

00:16:51,309 --> 00:16:56,379

karolinska committee giving the Nobel

396

00:16:55,120 --> 00:16:58,299

Prize they wanted to wait towards the

397

00:16:56,379 --> 00:17:00,429

hundredth anniversary of Robert cotton

398

00:16:58,299 --> 00:17:02,289

people were they gave us out Nobel so

399

00:17:00,429 --> 00:17:04,209

it's not there wasn't a good one and

400
00:17:02,289 --> 00:17:07,889
said they'd like the history of it and

401
00:17:04,209 --> 00:17:07,890
they like to write to 2000 fly

402
00:17:08,558 --> 00:17:10,619
you

403
00:17:19,269 --> 00:17:24,470
this is des Rochelle hosted skeptically

404
00:17:22,339 --> 00:17:26,959
speaking check out our website at

405
00:17:24,470 --> 00:17:30,829
skeptically speaking calm and listen to

406
00:17:26,960 --> 00:17:34,610
us live on CJ SR 88.5 FM in Edmonton

407
00:17:30,829 --> 00:17:45,470
Alberta Canada I now return you to the

408
00:17:34,609 --> 00:17:48,349
skeptic zone professor Phil cam who is I

409
00:17:45,470 --> 00:17:52,430
think i could say single-handedly

410
00:17:48,349 --> 00:17:54,139
responsible for the ethics classes that

411
00:17:52,430 --> 00:17:57,440
are now being run in New South Wales

412
00:17:54,140 --> 00:18:01,370
schools at the time when kids would

413
00:17:57,440 --> 00:18:03,259
normally go to other religious education

414
00:18:01,369 --> 00:18:06,409
classes a lot of kids obviously still do

415
00:18:03,259 --> 00:18:07,970
or those who prefer not whose parents

416
00:18:06,410 --> 00:18:10,460
prefer for them not to go to religious

417
00:18:07,970 --> 00:18:12,410
education classes would spend the time

418
00:18:10,460 --> 00:18:14,090
at the library or doing all kinds of

419
00:18:12,410 --> 00:18:14,990
other boring things because they're not

420
00:18:14,089 --> 00:18:19,099
allowed to do anything productive

421
00:18:14,990 --> 00:18:22,779
otherwise without further ado I'll hand

422
00:18:19,099 --> 00:18:22,779
you over to Phil cam thank you

423
00:18:26,150 --> 00:18:31,410
thanks very much for that that's been

424
00:18:29,609 --> 00:18:34,259
told I've got about 20 minutes to talk

425
00:18:31,410 --> 00:18:37,950
to you and since I'm just recently back

426
00:18:34,259 --> 00:18:40,980
from Europe on a long flight with deep

427
00:18:37,950 --> 00:18:43,380
vein thrombosis and jabs all over the

428

00:18:40,980 --> 00:18:45,180
place and dosed up with stuff you'll

429
00:18:43,380 --> 00:18:46,650
forgive me if I sort of wander in

430
00:18:45,180 --> 00:18:49,710
various ways but I try to do my best

431
00:18:46,650 --> 00:18:51,870
start topic the topic for tonight

432
00:18:49,710 --> 00:18:54,900
actually is that I've been asked to talk

433
00:18:51,869 --> 00:18:58,979
about is the ethics trial that was held

434
00:18:54,900 --> 00:19:02,910
in New South Wales at this time last

435
00:18:58,980 --> 00:19:04,860
year and as a result of which with some

436
00:19:02,910 --> 00:19:07,950
changes in the Education Act and a lot

437
00:19:04,859 --> 00:19:11,819
of pushing and shoving politically now

438
00:19:07,950 --> 00:19:13,950
continuing on in school system at least

439
00:19:11,819 --> 00:19:17,789
on a fledgling basis we'll see what

440
00:19:13,950 --> 00:19:20,120
happens as the new government sort of

441
00:19:17,789 --> 00:19:22,829
comes into its powers but let me go back

442
00:19:20,119 --> 00:19:24,929

first of all just fill you in a little

443

00:19:22,829 --> 00:19:27,089

bit on the background of this I know it

444

00:19:24,930 --> 00:19:29,490

will be familiar to some people but I'm

445

00:19:27,089 --> 00:19:35,129

sure it's not entirely familiar to

446

00:19:29,490 --> 00:19:38,039

others back in 2009 the San James ethic

447

00:19:35,130 --> 00:19:41,660

center here in Sydney approached me

448

00:19:38,039 --> 00:19:45,359

about the possibility of constructing a

449

00:19:41,660 --> 00:19:48,630

program of ethics for children in

450

00:19:45,359 --> 00:19:52,399

schools as a compliment that's what they

451

00:19:48,630 --> 00:19:56,430

called it to special religious education

452

00:19:52,400 --> 00:19:58,620

they approached me because I from the

453

00:19:56,430 --> 00:20:01,039

University of New South Wales I made a

454

00:19:58,619 --> 00:20:03,029

reputation over many years writing

455

00:20:01,039 --> 00:20:04,500

philosophy for children because I come

456

00:20:03,029 --> 00:20:05,670

from our school of actually these days

457
00:20:04,500 --> 00:20:08,759
history and philosophy but on a

458
00:20:05,670 --> 00:20:10,620
philosopher bite by profession and I've

459
00:20:08,759 --> 00:20:12,509
done a lot of work in in philosophy for

460
00:20:10,619 --> 00:20:16,199
children and written extensively for

461
00:20:12,509 --> 00:20:18,269
children and work with teachers both

462
00:20:16,200 --> 00:20:20,940
here and abroad so they thought I was a

463
00:20:18,269 --> 00:20:23,129
person to ask about this and indeed i

464
00:20:20,940 --> 00:20:28,039
guess i was probably the person to ask

465
00:20:23,130 --> 00:20:30,960
but it turned out that this this project

466
00:20:28,039 --> 00:20:33,569
as it transpired had all sorts of

467
00:20:30,960 --> 00:20:36,630
problems and issues i want to talk about

468
00:20:33,569 --> 00:20:38,389
some of those problems and issues after

469
00:20:36,630 --> 00:20:40,130
I fill you in on the on the hist

470
00:20:38,390 --> 00:20:42,710
Markel background anyway so this in

471
00:20:40,130 --> 00:20:44,900
James ethics center people came to speak

472
00:20:42,710 --> 00:20:47,779
to me Simon Longstaff their director of

473
00:20:44,900 --> 00:20:50,120
the center and a couple of his officers

474
00:20:47,779 --> 00:20:52,789
came to speak to me and they had in fact

475
00:20:50,119 --> 00:20:54,259
approached previous administrations now

476
00:20:52,789 --> 00:20:56,769
we're talking about the previous Labour

477
00:20:54,259 --> 00:20:58,759
government but they approached previous

478
00:20:56,769 --> 00:21:00,619
administrations I think they're on two

479
00:20:58,759 --> 00:21:02,900
occasions both of them labour actually

480
00:21:00,619 --> 00:21:04,609
and had been turned down when they

481
00:21:02,900 --> 00:21:07,580
proposed that there might be something

482
00:21:04,609 --> 00:21:09,169
for kids to do who don't go to Scripture

483
00:21:07,579 --> 00:21:12,859
as it's called special religious

484
00:21:09,170 --> 00:21:16,640
education held once a week now this

485

00:21:12,859 --> 00:21:19,969
scripture period by the way is something

486
00:21:16,640 --> 00:21:23,870
of that goes right back to the education

487
00:21:19,970 --> 00:21:27,230
act so it's very very old and it prints

488
00:21:23,869 --> 00:21:31,159
a provision for recognized religious

489
00:21:27,230 --> 00:21:33,140
groups which recognized churches to have

490
00:21:31,160 --> 00:21:36,440
a provision for children in school of up

491
00:21:33,140 --> 00:21:39,980
to one hour up to one hour a week every

492
00:21:36,440 --> 00:21:41,870
week of the school year in fact it's

493
00:21:39,980 --> 00:21:44,150
very rare in fact I'm not sure it

494
00:21:41,869 --> 00:21:45,709
happens at all that any of the the

495
00:21:44,150 --> 00:21:47,540
churches they they have this one hour

496
00:21:45,710 --> 00:21:51,110
period it's usually more like half an

497
00:21:47,539 --> 00:21:52,730
hour or 40 minutes but that's a regular

498
00:21:51,109 --> 00:21:55,219
feature as most of us were now in our

499
00:21:52,730 --> 00:21:57,769

school system and and then the religious

500

00:21:55,220 --> 00:22:00,350

groups actually had that that slot to

501

00:21:57,769 --> 00:22:03,710

themselves children who don't go to

502

00:22:00,349 --> 00:22:06,740

Scripture well they have to be catered

503

00:22:03,710 --> 00:22:09,289

for and it's usually a holding operation

504

00:22:06,740 --> 00:22:10,880

because there has been a long-standing I

505

00:22:09,289 --> 00:22:13,730

don't know how far back it goes but has

506

00:22:10,880 --> 00:22:15,590

been a very long-standing policy of the

507

00:22:13,730 --> 00:22:17,269

Education Department the Department of

508

00:22:15,589 --> 00:22:21,139

Education and Training as it is these

509

00:22:17,269 --> 00:22:24,349

days that students are not to be offered

510

00:22:21,140 --> 00:22:27,140

anything or any instruction that is of

511

00:22:24,349 --> 00:22:30,289

educational value in that period so the

512

00:22:27,140 --> 00:22:32,570

kids who don't go to sre can get on with

513

00:22:30,289 --> 00:22:34,129

reading or maybe what should be BD for

514
00:22:32,569 --> 00:22:36,319
the update time or whatever it is but

515
00:22:34,130 --> 00:22:38,870
they must not be given any instructional

516
00:22:36,319 --> 00:22:43,000
of everything of instructional value as

517
00:22:38,869 --> 00:22:45,169
if it were necessary to add to that it

518
00:22:43,000 --> 00:22:46,250
explicitly says in the departmental

519
00:22:45,170 --> 00:22:47,680
policy that they're not to be given

520
00:22:46,250 --> 00:22:50,019
ethics

521
00:22:47,680 --> 00:22:51,220
okay there are other things they're not

522
00:22:50,019 --> 00:22:52,629
to be given but they're not be given

523
00:22:51,220 --> 00:22:56,410
anything but i've been especially not to

524
00:22:52,630 --> 00:22:58,450
be given ethics so that looked like

525
00:22:56,410 --> 00:23:00,670
something of a barrier to the proposal

526
00:22:58,450 --> 00:23:02,319
that the Sanjaya ethics Center had in

527
00:23:00,670 --> 00:23:05,920
mind and it's not surprising I suppose

528
00:23:02,319 --> 00:23:08,529
in the light of that that they had been

529
00:23:05,920 --> 00:23:11,289
turned down on two previous occasions so

530
00:23:08,529 --> 00:23:13,779
their request to me or they're coming to

531
00:23:11,289 --> 00:23:17,259
see me first of all was really about two

532
00:23:13,779 --> 00:23:20,200
things one was what would such a program

533
00:23:17,259 --> 00:23:22,750
of ethics for kids look like in your

534
00:23:20,200 --> 00:23:24,670
view how would you go about constructing

535
00:23:22,750 --> 00:23:26,950
or what would it look like what kind of

536
00:23:24,670 --> 00:23:28,779
educational outcomes would you know how

537
00:23:26,950 --> 00:23:30,670
would it be taught what would the

538
00:23:28,779 --> 00:23:33,789
lessons look like practical things like

539
00:23:30,670 --> 00:23:35,800
that but also how do you think we should

540
00:23:33,789 --> 00:23:37,389
you involved in education in various

541
00:23:35,799 --> 00:23:38,919
ways how do you think we should go about

542

00:23:37,390 --> 00:23:42,100
actually getting our foot in the door

543
00:23:38,920 --> 00:23:43,810
and that second question actually is the

544
00:23:42,099 --> 00:23:45,730
one to ask first because if you don't

545
00:23:43,809 --> 00:23:47,829
find out how the answer address that

546
00:23:45,730 --> 00:23:49,690
question properly you no point in

547
00:23:47,829 --> 00:23:50,949
constructing all the lessons and what

548
00:23:49,690 --> 00:23:54,009
worry about the pedagogy of how you

549
00:23:50,950 --> 00:23:55,930
train teachers and so forth and I said

550
00:23:54,009 --> 00:23:57,549
well usually the way these things are

551
00:23:55,930 --> 00:24:01,269
done in education is actually through a

552
00:23:57,549 --> 00:24:02,589
pilot you have a pilot I mean it's got

553
00:24:01,269 --> 00:24:04,210
going to be something very limited you

554
00:24:02,589 --> 00:24:06,819
just have a collection of schools you

555
00:24:04,210 --> 00:24:09,940
select them and appropriately maybe you

556
00:24:06,819 --> 00:24:11,950

run the thing for a term and so you've

557

00:24:09,940 --> 00:24:14,500

got a small smaller commitment and it's

558

00:24:11,950 --> 00:24:17,680

less threatening to the system because

559

00:24:14,500 --> 00:24:19,509

it's only initially temporary it's of

560

00:24:17,680 --> 00:24:21,130

limited extent only a few schools were

561

00:24:19,509 --> 00:24:23,740

involved it's going to be subject to

562

00:24:21,130 --> 00:24:25,660

test and scrutiny which is important of

563

00:24:23,740 --> 00:24:27,400

course so you're not just coming and

564

00:24:25,660 --> 00:24:28,750

saying just open up your doors let's

565

00:24:27,400 --> 00:24:31,030

open up the floodgates and have

566

00:24:28,750 --> 00:24:34,269

something else you're saying let's take

567

00:24:31,029 --> 00:24:37,450

a disciplined approach let's devise

568

00:24:34,269 --> 00:24:40,779

something especially for this trial and

569

00:24:37,450 --> 00:24:42,759

let's test it out the government has it

570

00:24:40,779 --> 00:24:44,619

turned out although it was rather weak

571
00:24:42,759 --> 00:24:46,750
kneed i think i should say that about

572
00:24:44,619 --> 00:24:49,239
this and even the minister verity fur

573
00:24:46,750 --> 00:24:52,599
through in the end was willing to

574
00:24:49,240 --> 00:24:54,609
sanction this thing at the last eleventh

575
00:24:52,599 --> 00:24:57,139
hour about two minutes to midnight

576
00:24:54,609 --> 00:24:59,519
actually

577
00:24:57,140 --> 00:25:02,430
they nevertheless actually gave the

578
00:24:59,519 --> 00:25:05,940
go-ahead for this to to to at least go

579
00:25:02,430 --> 00:25:09,060
to at the construction stage that

580
00:25:05,940 --> 00:25:11,340
construction stage evolved I was going

581
00:25:09,059 --> 00:25:12,839
to say getting advice from the

582
00:25:11,339 --> 00:25:14,429
department of education and training

583
00:25:12,839 --> 00:25:16,529
whose officers from the board of studies

584
00:25:14,430 --> 00:25:18,539
in the curriculum Directorate went

585
00:25:16,529 --> 00:25:22,379
through the materials that I constructed

586
00:25:18,539 --> 00:25:24,539
with a fine-tooth comb and they took out

587
00:25:22,380 --> 00:25:27,120
anything they thought might be in any

588
00:25:24,539 --> 00:25:30,210
way objectionable objectionable we write

589
00:25:27,119 --> 00:25:31,829
us to whom well basically true the

590
00:25:30,210 --> 00:25:37,559
religious authorities who were breathing

591
00:25:31,829 --> 00:25:40,019
down their necks the the the the church

592
00:25:37,559 --> 00:25:42,710
by tucka rious which actually is a body

593
00:25:40,019 --> 00:25:45,470
of into church body witches has

594
00:25:42,710 --> 00:25:47,610
oversight a special religious education

595
00:25:45,470 --> 00:25:49,370
was breathing down their neck George

596
00:25:47,609 --> 00:25:51,539
Pell was breathing down their neck

597
00:25:49,369 --> 00:25:54,149
Jensen was breathing down their neck so

598
00:25:51,539 --> 00:25:55,799
we actually had some of the major

599

00:25:54,150 --> 00:25:59,490
religious authorities in town the

600
00:25:55,799 --> 00:26:01,470
blowing hot on this issue so

601
00:25:59,490 --> 00:26:03,120
nevertheless these meerut materials were

602
00:26:01,470 --> 00:26:06,779
constructed and I constructed the

603
00:26:03,119 --> 00:26:08,579
pedagogy for them and we were told by

604
00:26:06,779 --> 00:26:10,649
the way just one other little detail

605
00:26:08,579 --> 00:26:13,230
that no teacher was allowed to teach

606
00:26:10,650 --> 00:26:14,490
this which looks a bit of a problem if

607
00:26:13,230 --> 00:26:16,620
you're going to implement something in

608
00:26:14,490 --> 00:26:19,410
the classroom but it turned out had to

609
00:26:16,619 --> 00:26:20,849
be parents couldn't be teachers it

610
00:26:19,410 --> 00:26:23,190
couldn't be anyone in the employ of the

611
00:26:20,849 --> 00:26:24,929
education the department of education

612
00:26:23,190 --> 00:26:27,600
and training at least not in employment

613
00:26:24,930 --> 00:26:29,370

at that time in our part time they could

614

00:26:27,599 --> 00:26:31,469

perhaps do it as other but they had to

615

00:26:29,369 --> 00:26:34,529

be parents so we had to feed take people

616

00:26:31,470 --> 00:26:37,289

who are untrained as teachers and train

617

00:26:34,529 --> 00:26:41,279

them up yeah I had two days in which to

618

00:26:37,289 --> 00:26:42,569

do this this is quite a feat you take

619

00:26:41,279 --> 00:26:45,299

people who have no background education

620

00:26:42,569 --> 00:26:47,159

many well-meaning parents often you know

621

00:26:45,299 --> 00:26:50,220

intelligent professional people but they

622

00:26:47,160 --> 00:26:52,500

had to be trained up to do their stick

623

00:26:50,220 --> 00:26:54,720

in the classroom in two days with a

624

00:26:52,500 --> 00:26:56,819

little bit of background support while

625

00:26:54,720 --> 00:26:59,069

they were doing it not much a little bit

626

00:26:56,819 --> 00:27:03,779

anyway so that was the way that things

627

00:26:59,069 --> 00:27:05,429

went and as you will know all of you or

628
00:27:03,779 --> 00:27:06,289
no I suppose most people know certainly

629
00:27:05,430 --> 00:27:08,299
that

630
00:27:06,289 --> 00:27:10,970
trial went ahead it was evaluated

631
00:27:08,299 --> 00:27:12,230
independently by the Education

632
00:27:10,970 --> 00:27:13,940
Department by getting an expert from

633
00:27:12,230 --> 00:27:18,110
South Australia and a team of people

634
00:27:13,940 --> 00:27:19,549
from their uni SI to actually come over

635
00:27:18,109 --> 00:27:21,379
and have a look at it and they looked at

636
00:27:19,549 --> 00:27:23,750
it a great deal of detail and wrote a

637
00:27:21,380 --> 00:27:24,950
lengthy report which is available on the

638
00:27:23,750 --> 00:27:26,420
department's website if you're

639
00:27:24,950 --> 00:27:30,769
interested in it you can actually have a

640
00:27:26,420 --> 00:27:33,680
look at it there and basically the the

641
00:27:30,769 --> 00:27:40,160
pilot was given the big tick thumbs up

642
00:27:33,680 --> 00:27:42,650
and that meant that the department was

643
00:27:40,160 --> 00:27:45,350
happy with it and the minister was in a

644
00:27:42,650 --> 00:27:47,090
bit of a tight corner the rock and a

645
00:27:45,349 --> 00:27:49,419
parrot will rock in a hard place but in

646
00:27:47,089 --> 00:27:54,409
the end as I say as you well know she

647
00:27:49,420 --> 00:27:56,600
eventually gave approval now that's just

648
00:27:54,410 --> 00:27:59,390
a bit of a quick thumbnail sketch of

649
00:27:56,599 --> 00:28:00,500
background for you the things I want

650
00:27:59,390 --> 00:28:02,540
that's not what I really want to talk

651
00:28:00,500 --> 00:28:05,990
about their there are other issues I

652
00:28:02,539 --> 00:28:08,779
want to talk about a couple of them let

653
00:28:05,990 --> 00:28:11,180
me just raise them for you and I'm going

654
00:28:08,779 --> 00:28:12,470
to just raise to I think second one I'm

655
00:28:11,180 --> 00:28:14,570
going to raise I think it's actually the

656

00:28:12,470 --> 00:28:17,180
more important probably more interest

657
00:28:14,569 --> 00:28:19,939
more of interest to most of you but the

658
00:28:17,180 --> 00:28:26,330
first one it seems to me is also of some

659
00:28:19,940 --> 00:28:30,110
import what would be the most important

660
00:28:26,329 --> 00:28:32,029
thing to motivate our this special

661
00:28:30,109 --> 00:28:34,339
intervention other words here you've got

662
00:28:32,029 --> 00:28:36,410
a situation where you've got the

663
00:28:34,339 --> 00:28:38,869
majority of kids in most schools but the

664
00:28:36,410 --> 00:28:42,080
minority and son going to special

665
00:28:38,869 --> 00:28:45,079
religious education once a week in that

666
00:28:42,079 --> 00:28:47,839
a lot of time half an hour 40 minutes as

667
00:28:45,079 --> 00:28:51,980
I said for the most part where the other

668
00:28:47,839 --> 00:28:55,309
kids are to be given nothing now the

669
00:28:51,980 --> 00:28:59,120
question is is that discriminatory I

670
00:28:55,309 --> 00:29:00,889

mean are the other children who decide

671

00:28:59,119 --> 00:29:03,649

or whose parents actually formally

672

00:29:00,890 --> 00:29:06,400

decide that they're not attending what's

673

00:29:03,650 --> 00:29:09,440

called scripture or sorry are those

674

00:29:06,400 --> 00:29:12,140

parents and children being discriminated

675

00:29:09,440 --> 00:29:13,820

against in some important way the

676

00:29:12,140 --> 00:29:15,900

argument from the Sun Jamesy ethics

677

00:29:13,819 --> 00:29:18,029

center was that they were

678

00:29:15,900 --> 00:29:19,950

in fact the main line of argument that

679

00:29:18,029 --> 00:29:23,480

they run around in favor of this

680

00:29:19,950 --> 00:29:26,250

especially intervention was that it was

681

00:29:23,480 --> 00:29:28,410

to combat this discrimination that was

682

00:29:26,250 --> 00:29:31,650

occurring in the schools and it's a

683

00:29:28,410 --> 00:29:34,680

really really important question is is

684

00:29:31,650 --> 00:29:37,170

it discrimination and is it is it

685
00:29:34,680 --> 00:29:40,200
significantly serious so that the

686
00:29:37,170 --> 00:29:42,240
long-standing provision that's been

687
00:29:40,200 --> 00:29:45,299
there for the churches that it was built

688
00:29:42,240 --> 00:29:49,019
into the Education Act should be

689
00:29:45,299 --> 00:29:50,940
tampered with or overwritten you might

690
00:29:49,019 --> 00:29:54,569
you might see by the way that of course

691
00:29:50,940 --> 00:29:56,850
good behind all the different arguments

692
00:29:54,569 --> 00:29:58,529
mostly specious and often very very bad

693
00:29:56,849 --> 00:30:00,959
arguments by the way that were mounted

694
00:29:58,529 --> 00:30:04,680
by religious authorities against the

695
00:30:00,960 --> 00:30:08,460
trial behind them all was just it seems

696
00:30:04,680 --> 00:30:10,500
to be one worry and the way is obvious I

697
00:30:08,460 --> 00:30:13,980
think I with the arguments were just

698
00:30:10,500 --> 00:30:17,099
window dressing the worry was if you

699

00:30:13,980 --> 00:30:20,400
have a competitor in that slot where

700

00:30:17,099 --> 00:30:23,219
you've had none previously you might be

701

00:30:20,400 --> 00:30:27,060
losing bums on seats and this is a major

702

00:30:23,220 --> 00:30:29,009
recruiting ground for churches then that

703

00:30:27,059 --> 00:30:30,569
seems to me just kind of obvious and it

704

00:30:29,009 --> 00:30:32,819
was obvious enough whenever you can't

705

00:30:30,569 --> 00:30:34,319
have just looked through what all these

706

00:30:32,819 --> 00:30:36,119
try to listen through what people are

707

00:30:34,319 --> 00:30:39,839
arguing to what they were really on

708

00:30:36,119 --> 00:30:42,119
about so there you've got as it were

709

00:30:39,839 --> 00:30:45,240
when those away there you have a

710

00:30:42,119 --> 00:30:47,429
provision that's been made for important

711

00:30:45,240 --> 00:30:49,440
and powerful groups in society less

712

00:30:47,430 --> 00:30:52,769
powerful than they once were but still

713

00:30:49,440 --> 00:30:54,630
quite powerful as proved to be the case

714
00:30:52,769 --> 00:30:58,859
in their debates and the pressure

715
00:30:54,630 --> 00:31:01,110
brought brought on government and then

716
00:30:58,859 --> 00:31:04,049
you have a group of people who are now

717
00:31:01,109 --> 00:31:05,699
decide to step outside of that and again

718
00:31:04,049 --> 00:31:08,849
getting no provision is that

719
00:31:05,700 --> 00:31:11,610
discriminatory how do you how do you

720
00:31:08,849 --> 00:31:13,109
deal with this kind of this issue I mean

721
00:31:11,609 --> 00:31:15,000
it's a simple way of saying with you

722
00:31:13,109 --> 00:31:17,219
might just say well it is discriminatory

723
00:31:15,000 --> 00:31:19,259
and it should be rectified you know that

724
00:31:17,220 --> 00:31:20,759
privilege should be done away with but

725
00:31:19,259 --> 00:31:22,559
if you put yourself in the position of

726
00:31:20,759 --> 00:31:23,700
government or if you put yourself the

727
00:31:22,559 --> 00:31:26,079

position of the Education Department

728

00:31:23,700 --> 00:31:29,140
trying to manage this issue

729

00:31:26,079 --> 00:31:31,389
you can't just simply make a you know a

730

00:31:29,140 --> 00:31:33,600
quick decision like that it takes a

731

00:31:31,390 --> 00:31:35,649
great deal of thinking through the

732

00:31:33,599 --> 00:31:37,209
second the second thing which is

733

00:31:35,648 --> 00:31:40,418
actually nearer to my heart and

734

00:31:37,210 --> 00:31:42,970
interested me a great deal more was

735

00:31:40,419 --> 00:31:46,000
actually the form of instruction that's

736

00:31:42,970 --> 00:31:47,259
involved usually in what my day when I

737

00:31:46,000 --> 00:31:50,710
was a kid at school used to be called

738

00:31:47,259 --> 00:31:53,200
religious instruction and the words the

739

00:31:50,710 --> 00:31:55,390
word actually tells you something but

740

00:31:53,200 --> 00:32:00,730
special religious education is is called

741

00:31:55,390 --> 00:32:02,679
these days here there's that there's a

742
00:32:00,730 --> 00:32:05,620
form of Education involved in that a

743
00:32:02,679 --> 00:32:09,190
model of Education and actually an fact

744
00:32:05,619 --> 00:32:12,038
of ethical education in particular which

745
00:32:09,190 --> 00:32:14,710
is at loggerheads with the kind of

746
00:32:12,038 --> 00:32:18,129
approach that I took which comes out of

747
00:32:14,710 --> 00:32:20,259
philosophy so let's have a quick look at

748
00:32:18,130 --> 00:32:22,600
these two different sorts of approaches

749
00:32:20,259 --> 00:32:27,250
that I hope not to provide too much of a

750
00:32:22,599 --> 00:32:30,189
caricature of them first of all if you

751
00:32:27,250 --> 00:32:34,329
look at religious education in special

752
00:32:30,190 --> 00:32:37,240
religious education it isn't first and

753
00:32:34,329 --> 00:32:41,079
foremost and certainly not only ethical

754
00:32:37,240 --> 00:32:43,000
education is religious education but

755
00:32:41,079 --> 00:32:46,388
religious education involves ethical

756
00:32:43,000 --> 00:32:48,130
education just take some common things

757
00:32:46,388 --> 00:32:50,319
that are commonly known I just go to the

758
00:32:48,130 --> 00:32:54,429
Christian faith switch of the manger

759
00:32:50,319 --> 00:32:57,460
ones represented in our schools if you

760
00:32:54,429 --> 00:32:59,649
talk about the Ten Commandments there

761
00:32:57,460 --> 00:33:01,750
are moral code if you talk about the

762
00:32:59,648 --> 00:33:05,048
golden rule you know of the New

763
00:33:01,750 --> 00:33:09,460
Testament that's a moral preceptor or

764
00:33:05,048 --> 00:33:12,519
moral rule if you talk about moralizing

765
00:33:09,460 --> 00:33:16,990
well for example Bible stories of say

766
00:33:12,519 --> 00:33:19,419
the Good Samaritan is a moral tale and

767
00:33:16,990 --> 00:33:21,159
when you tell such a child you mark

768
00:33:19,419 --> 00:33:24,309
what's caught you you're doing what's

769
00:33:21,159 --> 00:33:26,169
called moralizing so what I'm saying is

770

00:33:24,308 --> 00:33:28,089
that in fact when you kids are engaged

771
00:33:26,169 --> 00:33:30,610
in special religious education they're

772
00:33:28,089 --> 00:33:33,339
actually getting by by moral education

773
00:33:30,609 --> 00:33:36,519
it comes with religion there comes with

774
00:33:33,339 --> 00:33:37,928
the field the question is however not

775
00:33:36,519 --> 00:33:40,710
that they're getting that but

776
00:33:37,929 --> 00:33:42,909
what form is it being delivered I mean

777
00:33:40,710 --> 00:33:44,769
technically we might think what's the

778
00:33:42,909 --> 00:33:47,440
pedagogy or what's that what was the

779
00:33:44,769 --> 00:33:50,609
teaching mode that's involved in this

780
00:33:47,440 --> 00:33:53,288
will usually of course this instruction

781
00:33:50,609 --> 00:33:56,949
okay so first of all or it simply

782
00:33:53,288 --> 00:34:01,480
moralizing so if you tell a a moral

783
00:33:56,950 --> 00:34:03,759
story which has as it were a conclusion

784
00:34:01,480 --> 00:34:07,769

to be drawn which is built into the into

785

00:34:03,759 --> 00:34:11,710

the story itself then that's moralizing

786

00:34:07,769 --> 00:34:14,588

i'm quite a fan of Aesop's fables but i

787

00:34:11,710 --> 00:34:16,628

never used them in my work in classrooms

788

00:34:14,588 --> 00:34:18,668

because they're actually morally

789

00:34:16,628 --> 00:34:20,440

directed their you meant to draw the

790

00:34:18,668 --> 00:34:21,578

moral that if the stories constructors

791

00:34:20,440 --> 00:34:23,559

that you draw the moment often in

792

00:34:21,579 --> 00:34:27,250

Aesop's fables the bold is explicitly

793

00:34:23,559 --> 00:34:30,250

drawn at the end okay that's so

794

00:34:27,250 --> 00:34:32,800

moralizing and instruction in an ethical

795

00:34:30,250 --> 00:34:37,960

code is a certain way of trying to

796

00:34:32,800 --> 00:34:39,879

deliver a education a completely

797

00:34:37,960 --> 00:34:42,909

different tradition in this which is

798

00:34:39,878 --> 00:34:44,710

also venerable is what I would call the

799
00:34:42,909 --> 00:34:47,769
philosophical tradition particularly the

800
00:34:44,710 --> 00:34:49,690
one famously in the history of western

801
00:34:47,769 --> 00:34:51,579
philosophy associated with Socrates the

802
00:34:49,690 --> 00:34:56,378
Socratic tradition the Socratic

803
00:34:51,579 --> 00:34:58,690
tradition is one of moral inquiry now a

804
00:34:56,378 --> 00:35:02,170
moral inquiry whatever else it involves

805
00:34:58,690 --> 00:35:05,220
is isn't the teacher actually imparting

806
00:35:02,170 --> 00:35:08,260
a class set of codes to the student or

807
00:35:05,219 --> 00:35:10,868
teaching them a moral lesson it's

808
00:35:08,260 --> 00:35:13,180
bringing them to think about moral

809
00:35:10,869 --> 00:35:16,500
issues or moral problems a moral

810
00:35:13,179 --> 00:35:20,980
concepts and ideas and to be able to

811
00:35:16,500 --> 00:35:24,489
evaluate them to have clear notions of

812
00:35:20,980 --> 00:35:27,969
them to be able to to work with them and

813
00:35:24,489 --> 00:35:29,889
to be able to adjudged them and in

814
00:35:27,969 --> 00:35:31,959
simple ways of course with children

815
00:35:29,889 --> 00:35:35,078
particularly by the way the children the

816
00:35:31,960 --> 00:35:36,789
trial we use five and six okay so we

817
00:35:35,079 --> 00:35:38,650
talked at eleven and twelve year olds

818
00:35:36,789 --> 00:35:40,719
we're not talking about them actually

819
00:35:38,650 --> 00:35:42,910
going into the annals of philosophy and

820
00:35:40,719 --> 00:35:46,289
trying to discover what a manual can't

821
00:35:42,909 --> 00:35:48,329
said about the categorical imperative

822
00:35:46,289 --> 00:35:51,059
but on the other hand kids are trying to

823
00:35:48,329 --> 00:35:53,369
think about the importance of rules and

824
00:35:51,059 --> 00:35:55,909
where rules for example might come into

825
00:35:53,369 --> 00:35:58,199
conflict and what you do about that or

826
00:35:55,909 --> 00:36:01,409
about the difference between thinking

827

00:35:58,199 --> 00:36:02,789
about intentions and consequences you

828
00:36:01,409 --> 00:36:04,289
know how important these two different

829
00:36:02,789 --> 00:36:06,329
kinds of things are in different

830
00:36:04,289 --> 00:36:09,779
contexts of their lives where they can

831
00:36:06,329 --> 00:36:11,699
appreciate the importance of these and

832
00:36:09,780 --> 00:36:15,330
the difficulties that they sometimes in

833
00:36:11,699 --> 00:36:17,069
tile and for them to do this together to

834
00:36:15,329 --> 00:36:19,529
in order to think things through for

835
00:36:17,070 --> 00:36:23,340
example to explore their differences of

836
00:36:19,530 --> 00:36:26,430
opinion and understanding that kind of

837
00:36:23,340 --> 00:36:29,309
approach is very very different from the

838
00:36:26,429 --> 00:36:30,690
approach that says well we already have

839
00:36:29,309 --> 00:36:32,250
the moral knowledge and it's just a

840
00:36:30,690 --> 00:36:36,409
matter of imparting it to you and will

841
00:36:32,250 --> 00:36:39,719

impart it to you by instruction or by

842

00:36:36,409 --> 00:36:42,960

moralizing now that's quick and rough

843

00:36:39,719 --> 00:36:45,000

but it seemed to me quite evident in

844

00:36:42,960 --> 00:36:47,550

what I could see of what was going on in

845

00:36:45,000 --> 00:36:49,500

schools in special religious education

846

00:36:47,550 --> 00:36:51,990

and in the presumptions that were

847

00:36:49,500 --> 00:36:55,110

brought to the debate in the public

848

00:36:51,989 --> 00:36:57,719

arena that there were two very very

849

00:36:55,110 --> 00:37:00,539

different traditions here at loggerheads

850

00:36:57,719 --> 00:37:02,789

with one another okay the tradition if I

851

00:37:00,539 --> 00:37:06,929

can call the moral instruction and the

852

00:37:02,789 --> 00:37:09,029

tradition of moral inquiry and I think

853

00:37:06,929 --> 00:37:11,069

in the end this is a vitally important

854

00:37:09,030 --> 00:37:13,640

issue because in fact these are just

855

00:37:11,070 --> 00:37:16,530

about special religious education any

856
00:37:13,639 --> 00:37:19,019
compliments that might be put up against

857
00:37:16,530 --> 00:37:21,360
it for kids who don't go to Scripture it

858
00:37:19,019 --> 00:37:23,519
actually has to do with how we work

859
00:37:21,360 --> 00:37:26,400
through problems and issues of a moral

860
00:37:23,519 --> 00:37:30,119
nature in society and indeed more

861
00:37:26,400 --> 00:37:33,030
broadly how we come to knowledge and

862
00:37:30,119 --> 00:37:34,559
understanding in general and whether

863
00:37:33,030 --> 00:37:36,390
these things can be given to us by

864
00:37:34,559 --> 00:37:38,789
authority and whether they are to be

865
00:37:36,389 --> 00:37:40,529
handed down on a platter or whether we

866
00:37:38,789 --> 00:37:42,150
need to think these things through for

867
00:37:40,530 --> 00:37:46,680
ourselves and whether we're going to be

868
00:37:42,150 --> 00:37:50,099
given the wherewithal to do so so that's

869
00:37:46,679 --> 00:37:54,089
a really big educational and social

870
00:37:50,099 --> 00:37:58,588
issue and it seems to me that in the in

871
00:37:54,090 --> 00:38:00,450
the discussions of the pilot

872
00:37:58,588 --> 00:38:02,369
we had last year particularly the media

873
00:38:00,449 --> 00:38:05,278
but that issue was there but it was

874
00:38:02,369 --> 00:38:12,329
never really clearly identified and

875
00:38:05,278 --> 00:38:16,259
articulated and it needs to be so okay

876
00:38:12,329 --> 00:38:18,239
I've got about two minutes so at the

877
00:38:16,259 --> 00:38:21,838
moment just to go back to the history

878
00:38:18,239 --> 00:38:25,199
page we have this kind of fledgling

879
00:38:21,838 --> 00:38:29,429
effort in schools there is now a body

880
00:38:25,199 --> 00:38:32,998
called primary ethics which has been set

881
00:38:29,429 --> 00:38:35,308
up to develop that program further I

882
00:38:32,998 --> 00:38:37,468
extended the pilot program which was

883
00:38:35,309 --> 00:38:39,450
written just for one term as a trial to

884

00:38:37,469 --> 00:38:42,659
two terms and that's currently being

885
00:38:39,449 --> 00:38:43,919
used in schools this year I don't know

886
00:38:42,659 --> 00:38:46,348
really what's happening in the second

887
00:38:43,920 --> 00:38:49,680
half of the year but the whole thing it

888
00:38:46,349 --> 00:38:53,460
seems to me is still open to further

889
00:38:49,679 --> 00:38:56,728
debate and political maneuvering by the

890
00:38:53,460 --> 00:38:58,949
current government and i think that

891
00:38:56,728 --> 00:39:01,768
there's probably room for a great deal

892
00:38:58,949 --> 00:39:04,889
more discussion to come on this matter

893
00:39:01,768 --> 00:39:08,189
and insofar as that's the case i would

894
00:39:04,889 --> 00:39:10,170
really like to see their these issues

895
00:39:08,190 --> 00:39:12,568
that I've rat two issues I've raised

896
00:39:10,170 --> 00:39:14,009
tonight actually have some prominence in

897
00:39:12,568 --> 00:39:16,288
the discussion and particularly the

898
00:39:14,009 --> 00:39:20,009

second one because it seems to me that

899

00:39:16,289 --> 00:39:23,700

that issue is so really important to all

900

00:39:20,009 --> 00:39:26,838

of us about as I would say in the large

901

00:39:23,699 --> 00:39:31,528

scheme of things what is knowledge and

902

00:39:26,838 --> 00:39:34,409

how can we properly come by it and if we

903

00:39:31,528 --> 00:39:38,358

don't address that issue in education we

904

00:39:34,409 --> 00:39:38,358

really are lost thank you

905

00:39:46,559 --> 00:39:51,969

are you sick of pseudoscience of the

906

00:39:49,210 --> 00:39:54,070

paranormal dominating popular media fed

907

00:39:51,969 --> 00:39:56,889

up with being surrounded by spiritualism

908

00:39:54,070 --> 00:39:59,830

and relentless religiousness pneus yeah

909

00:39:56,889 --> 00:40:02,259

me too or you can do something about it

910

00:39:59,829 --> 00:40:04,900

help support the brand near flim-flam

911

00:40:02,260 --> 00:40:06,550

comic a weekly online comic strip that

912

00:40:04,900 --> 00:40:09,670

promotes critical thinking through a

913
00:40:06,550 --> 00:40:11,530
quirky cartoons and hilarious jokes the

914
00:40:09,670 --> 00:40:13,990
more skeptical media we share with the

915
00:40:11,530 --> 00:40:16,180
world the better it's none for profit so

916
00:40:13,989 --> 00:40:19,829
we need your help go to flim-flam

917
00:40:16,179 --> 00:40:24,429
possible comdata you that's flim-flam

918
00:40:19,829 --> 00:40:27,009
poz IB le Comte you you can contribute

919
00:40:24,429 --> 00:40:29,879
there let's spread critical thinking in

920
00:40:27,010 --> 00:40:29,880
every way we can

921
00:40:34,980 --> 00:40:38,519
Australian skeptics have always

922
00:40:36,960 --> 00:40:41,070
maintained that groups like the

923
00:40:38,519 --> 00:40:45,030
Australian vaccination network are not

924
00:40:41,070 --> 00:40:48,390
in fact pro-choice but are dedicated to

925
00:40:45,030 --> 00:40:50,160
the anti-vaccination stand while this is

926
00:40:48,389 --> 00:40:52,170
still the official position of the

927
00:40:50,159 --> 00:40:54,809
Australian vaccination Network other

928
00:40:52,170 --> 00:40:58,349
anti-vaccination campaigners aren't so

929
00:40:54,809 --> 00:41:00,210
shy Vera shramana and Bronwyn Hancock

930
00:40:58,349 --> 00:41:03,179
were recently interviewed on the 60

931
00:41:00,210 --> 00:41:05,880
minutes program here in Australia there

932
00:41:03,179 --> 00:41:08,909
a straightener by the way one the 1997

933
00:41:05,880 --> 00:41:10,140
Australian skeptics bent spoon award for

934
00:41:08,909 --> 00:41:12,509
the most preposterous piece of

935
00:41:10,139 --> 00:41:16,170
paranormal or pseudo-scientific piffle

936
00:41:12,510 --> 00:41:19,350
in that year in this interview of Irish

937
00:41:16,170 --> 00:41:23,460
writer and Bronwyn Hancock leave nothing

938
00:41:19,349 --> 00:41:27,779
to the imagination they make it clear

939
00:41:23,460 --> 00:41:30,329
beyond any doubt what so ever that they

940
00:41:27,780 --> 00:41:33,710
are anti-vaccination that vaccinations

941

00:41:30,329 --> 00:41:36,289
are only harmful and diseases are good

942
00:41:33,710 --> 00:41:40,679
you don't have to take my word for it

943
00:41:36,289 --> 00:41:42,809
here is the audio based on my extensive

944
00:41:40,679 --> 00:41:45,750
research of Orthodox medical literature

945
00:41:42,809 --> 00:41:47,699
I am totally against any vaccinations

946
00:41:45,750 --> 00:41:51,329
having anything good to say about back

947
00:41:47,699 --> 00:41:54,500
saying no because the immunity is

948
00:41:51,329 --> 00:41:57,840
achieved by going through the natural

949
00:41:54,500 --> 00:42:01,880
infectious diseases of childhood such as

950
00:41:57,840 --> 00:42:05,010
measles whooping cough mumps rubella so

951
00:42:01,880 --> 00:42:09,180
vaccines are dangerous and diseases are

952
00:42:05,010 --> 00:42:11,490
good exactly you right here that the

953
00:42:09,179 --> 00:42:14,399
body only catches a disease if it needs

954
00:42:11,489 --> 00:42:16,469
to so all those polio and measles

955
00:42:14,400 --> 00:42:18,599

epidemics problem the kids their bodies

956

00:42:16,469 --> 00:42:23,549

wanted to catch those diseases did they

957

00:42:18,599 --> 00:42:25,108

there are benefits of diseases now I say

958

00:42:23,550 --> 00:42:28,050

that with qualification because

959

00:42:25,108 --> 00:42:29,969

obviously diseases have to be well

960

00:42:28,050 --> 00:42:32,519

managed and going through a disease is

961

00:42:29,969 --> 00:42:35,069

like us getting exercise this is one of

962

00:42:32,519 --> 00:42:37,440

the reasons why it's good to get Rebello

963

00:42:35,070 --> 00:42:40,019

as soon as possible so that you have in

964

00:42:37,440 --> 00:42:41,730

the energy too much and what about the

965

00:42:40,019 --> 00:42:43,739

risk of rubella to pregnant women who

966

00:42:41,730 --> 00:42:45,599

can have babies suffering terrible birth

967

00:42:43,739 --> 00:42:47,939

defect don't answer things that you

968

00:42:45,599 --> 00:42:50,730

don't know enough

969

00:42:47,940 --> 00:42:52,619

about okay just don't answer them you

970
00:42:50,730 --> 00:42:56,010
were drowning so let's call spade a

971
00:42:52,619 --> 00:42:58,019
spade I see she was drowning yet why

972
00:42:56,010 --> 00:42:59,910
would why would she be drowning because

973
00:42:58,019 --> 00:43:02,460
she hasn't got the extent of knowledge

974
00:42:59,909 --> 00:43:03,899
that I have I'll share some of the

975
00:43:02,460 --> 00:43:05,970
estate of not if she hasn't got the

976
00:43:03,900 --> 00:43:07,349
extensive knowledge why on earth is she

977
00:43:05,969 --> 00:43:09,179
writing these articles on the way

978
00:43:07,349 --> 00:43:11,250
they'll have a point there yes that's

979
00:43:09,179 --> 00:43:13,469
right maybe you have a point today okay

980
00:43:11,250 --> 00:43:15,420
so just for clarity you are not a

981
00:43:13,469 --> 00:43:19,289
medical doctor I'm not a medical doctor

982
00:43:15,420 --> 00:43:21,690
no but I am a doctor of natural sciences

983
00:43:19,289 --> 00:43:24,599
am I right in thinking that infect your

984
00:43:21,690 --> 00:43:27,480
expertise is in studying microfossils

985
00:43:24,599 --> 00:43:30,059
little fossils my expertise is in many

986
00:43:27,480 --> 00:43:32,429
areas one of them was microscopic my

987
00:43:30,059 --> 00:43:34,860
fossils but actually just for the record

988
00:43:32,429 --> 00:43:37,440
you have no formal medical training I

989
00:43:34,860 --> 00:43:40,349
wouldn't say that because I did a course

990
00:43:37,440 --> 00:43:42,360
of nursing when I was young but do you

991
00:43:40,349 --> 00:43:44,579
believe you know more than most doctors

992
00:43:42,360 --> 00:43:46,950
yes I believe I know more than most

993
00:43:44,579 --> 00:43:49,440
doctors vaccination of any kind of

994
00:43:46,949 --> 00:43:52,889
causes autism so only children who are

995
00:43:49,440 --> 00:43:55,170
vaccinated get autism that's right yes

996
00:43:52,889 --> 00:43:58,379
it's a heck of a story it is a heck of a

997
00:43:55,170 --> 00:44:00,420
story yes and how do you know they died

998

00:43:58,380 --> 00:44:01,800
from whooping cough these children went

999
00:44:00,420 --> 00:44:03,720
to hospital and the doctors there

1000
00:44:01,800 --> 00:44:05,580
diagnose them with whooping cough I

1001
00:44:03,719 --> 00:44:08,219
don't think there's any doubt if the

1002
00:44:05,579 --> 00:44:10,319
child was given hepatitis B adverse it

1003
00:44:08,219 --> 00:44:13,379
certainly suppressed in its immune

1004
00:44:10,320 --> 00:44:15,390
system and made it very susceptible to

1005
00:44:13,380 --> 00:44:17,579
catching whooping cough from people

1006
00:44:15,389 --> 00:44:19,650
around their days because their parents

1007
00:44:17,579 --> 00:44:23,190
immunize them at birth against hepatitis

1008
00:44:19,650 --> 00:44:25,889
B that's right absolutely because

1009
00:44:23,190 --> 00:44:27,329
vaccines are the single any vaccines are

1010
00:44:25,889 --> 00:44:30,150
the single biggest cause of infant

1011
00:44:27,329 --> 00:44:32,489
deaths those mothers have no knowledge

1012
00:44:30,150 --> 00:44:34,320

to judge the case they only listen to

1013

00:44:32,489 --> 00:44:36,389

what doctors tell them and of course the

1014

00:44:34,320 --> 00:44:39,660

doctors are only too happy to start

1015

00:44:36,389 --> 00:44:42,809

blaming the disease instead of their

1016

00:44:39,659 --> 00:44:44,940

vaccines can I put it to you both that

1017

00:44:42,809 --> 00:44:46,500

maybe not from malicious intent that the

1018

00:44:44,940 --> 00:44:50,159

two of you are involved in a conspiracy

1019

00:44:46,500 --> 00:44:52,380

to cover up the plain fact that infants

1020

00:44:50,159 --> 00:44:54,539

die an agonizing death from whooping

1021

00:44:52,380 --> 00:44:56,369

cough that you absolutely not and I am

1022

00:44:54,539 --> 00:44:59,880

walking out of this because this is a

1023

00:44:56,369 --> 00:45:00,609

farce but how about you put me in touch

1024

00:44:59,880 --> 00:45:02,590

with those

1025

00:45:00,610 --> 00:45:04,450

parents I will ask them relevant

1026

00:45:02,590 --> 00:45:06,220

questions to establish the whole medical

1027
00:45:04,449 --> 00:45:08,169
history of these children and then we

1028
00:45:06,219 --> 00:45:10,000
shall see what they really died off and

1029
00:45:08,170 --> 00:45:12,550
then I don't accept any accusations from

1030
00:45:10,000 --> 00:45:17,010
you or anybody else are we doing

1031
00:45:12,550 --> 00:45:17,010
something wrong I'm not doing anything

1032
00:45:17,820 --> 00:45:25,150
if I was to say anything good about Vera

1033
00:45:21,280 --> 00:45:28,180
schreibman and Bronwyn Hancock is well

1034
00:45:25,150 --> 00:45:30,130
at least they are honest about it at

1035
00:45:28,179 --> 00:45:32,500
least I have laid their cards on the

1036
00:45:30,130 --> 00:45:35,769
table to let us know and like other

1037
00:45:32,500 --> 00:45:38,889
groups who pretend that they are

1038
00:45:35,769 --> 00:45:41,590
pro-choice well done 60 minutes for

1039
00:45:38,889 --> 00:45:43,829
giving these people enough rope to hang

1040
00:45:41,590 --> 00:45:43,829
themselves

1041
00:45:50,099 --> 00:45:54,759
hey guys this is jay from the skeptics

1042
00:45:52,929 --> 00:45:57,548
guide to the universe er well hold on

1043
00:45:54,759 --> 00:45:59,318
whoa everybody knows I'm the only reason

1044
00:45:57,548 --> 00:46:00,489
to listen to the freakshow right I mean

1045
00:45:59,318 --> 00:46:07,239
if it was up to me the show would start

1046
00:46:00,489 --> 00:46:09,159
with this yeah boy well Rebecca would

1047
00:46:07,239 --> 00:46:10,868
hate that probably but I mean I'd rock

1048
00:46:09,159 --> 00:46:11,889
that listen to our show and you can

1049
00:46:10,869 --> 00:46:13,568
learn about cool stuff like a

1050
00:46:11,889 --> 00:46:15,338
technological singularity which is

1051
00:46:13,568 --> 00:46:16,838
someday when technology progresses so

1052
00:46:15,338 --> 00:46:18,219
fast that it would make the Industrial

1053
00:46:16,838 --> 00:46:21,278
Revolution look like a kid science

1054
00:46:18,219 --> 00:46:25,379
project anyway come check us out at WWDC

1055

00:46:21,278 --> 00:46:25,380
epic sea org get your son

1056
00:46:38,760 --> 00:46:40,820
bye

1057
00:46:47,039 --> 00:46:51,400
ladies and gentlemen TV fans our world

1058
00:46:49,900 --> 00:46:53,858
over I have on the phone a man who's

1059
00:46:51,400 --> 00:46:55,989
going to be in Australia for supernova

1060
00:46:53,858 --> 00:46:57,880
in June at the Dome in Sydney is to

1061
00:46:55,989 --> 00:46:59,559
build a lil as I like to refer to him

1062
00:46:57,880 --> 00:47:01,690
and many people do a further in this

1063
00:46:59,559 --> 00:47:04,209
that would be a major Roger Healey

1064
00:47:01,690 --> 00:47:06,338
welcome thank you what I'm gonna

1065
00:47:04,208 --> 00:47:07,929
identificar like that thank you oh look

1066
00:47:06,338 --> 00:47:09,608
and of course you haven't just done that

1067
00:47:07,929 --> 00:47:11,409
throughout your life I'd like to ask you

1068
00:47:09,608 --> 00:47:14,588
a lot of questions like heard you were

1069
00:47:11,409 --> 00:47:16,659

in Korea fighting in an artillery unit

1070

00:47:14,588 --> 00:47:18,429

in you as in your youth and then you got

1071

00:47:16,659 --> 00:47:19,958

into the entertainment unit that sounds

1072

00:47:18,429 --> 00:47:22,509

like a great wrought how did you do that

1073

00:47:19,958 --> 00:47:24,248

bill hi there do remember way back that

1074

00:47:22,509 --> 00:47:26,170

was nineteen fifty i worked at the best

1075

00:47:24,248 --> 00:47:28,028

hospitals it's okay because i was in the

1076

00:47:26,170 --> 00:47:31,358

world during get 50 the funny thing is

1077

00:47:28,028 --> 00:47:32,920

is with a pretty good job position and

1078

00:47:31,358 --> 00:47:35,318

then i was in the army and they were

1079

00:47:32,920 --> 00:47:37,838

going to send me over to Japan and I

1080

00:47:35,318 --> 00:47:39,909

with a special super school and I forget

1081

00:47:37,838 --> 00:47:42,038

i'll be in Japan they needed 20 thousand

1082

00:47:39,909 --> 00:47:45,038

guys and artillery and they sent me over

1083

00:47:42,039 --> 00:47:46,900

the korean artillery I'd oh my gosh what

1084
00:47:45,039 --> 00:47:48,699
is this and I don't know what I was

1085
00:47:46,900 --> 00:47:51,160
doing but two can't know before your

1086
00:47:48,699 --> 00:47:52,930
time with a famous Gordian player he

1087
00:47:51,159 --> 00:47:55,328
came to town I said him with them and he

1088
00:47:52,929 --> 00:47:57,368
took me back to Seoul got in the truck

1089
00:47:55,329 --> 00:47:59,289
and went closes it the lines I've ever

1090
00:47:57,369 --> 00:48:01,900
been there if we entertain a whole town

1091
00:47:59,289 --> 00:48:04,089
was gone up but it was a great great two

1092
00:48:01,900 --> 00:48:06,160
years of my life the best two years ever

1093
00:48:04,088 --> 00:48:07,929
of my life is it strange that will you

1094
00:48:06,159 --> 00:48:09,670
be you'll be traveling throughout your

1095
00:48:07,929 --> 00:48:11,139
life and someone will recognize you in a

1096
00:48:09,670 --> 00:48:12,699
really weird out-of-the-way place and

1097
00:48:11,139 --> 00:48:15,699
you just got no idea how they know you

1098
00:48:12,699 --> 00:48:18,039
but I love it I love it no I mean here

1099
00:48:15,699 --> 00:48:20,229
everywhere I mean I had the nice but I

1100
00:48:18,039 --> 00:48:22,299
mean the people tell you not be like 84

1101
00:48:20,228 --> 00:48:24,759
to half hour then people come up and

1102
00:48:22,298 --> 00:48:26,949
tell you that you're great i mean it

1103
00:48:24,759 --> 00:48:29,829
just all these autograph things we go to

1104
00:48:26,949 --> 00:48:31,959
it just it's just unbelievable and i'm

1105
00:48:29,829 --> 00:48:33,789
going over there and i dying to get that

1106
00:48:31,958 --> 00:48:35,978
can't wait to go to Australia I mean oh

1107
00:48:33,789 --> 00:48:38,289
man this is the most exciting time I

1108
00:48:35,978 --> 00:48:39,998
might I really mean it and now I know

1109
00:48:38,289 --> 00:48:42,699
Larry Hagman and barbara eden coming

1110
00:48:39,998 --> 00:48:44,798
with you yeah yeah there she wrote a

1111
00:48:42,699 --> 00:48:46,479
book I don't she had a two things about

1112

00:48:44,798 --> 00:48:48,159
Larry tell you about his early life I

1113
00:48:46,478 --> 00:48:50,048
think he might have been upset because

1114
00:48:48,159 --> 00:48:53,170
she said that he was quite upset about

1115
00:48:50,048 --> 00:48:54,788
that but but he at the beginning he

1116
00:48:53,170 --> 00:48:56,588
might have a few problems without Larry

1117
00:48:54,789 --> 00:48:56,960
that when their dinner show because he

1118
00:48:56,588 --> 00:48:58,909
was there

1119
00:48:56,960 --> 00:49:01,849
to create a director and he had this

1120
00:48:58,909 --> 00:49:04,639
energy guy was just absolutely brilliant

1121
00:49:01,849 --> 00:49:07,309
but uh it was just looking good thank

1122
00:49:04,639 --> 00:49:08,960
God for him as a kid growing up I you

1123
00:49:07,309 --> 00:49:10,460
know there was a anthony tony nelson

1124
00:49:08,960 --> 00:49:11,990
that was larry hagman he had the genie

1125
00:49:10,460 --> 00:49:14,119
had the problems he had things going on

1126
00:49:11,989 --> 00:49:16,429

all the time but Roger who was an Army

1127

00:49:14,119 --> 00:49:18,980

Major by the uniform would turn up in

1128

00:49:16,429 --> 00:49:20,509

the fantastic poor you no one knows that

1129

00:49:18,980 --> 00:49:21,858

by the way that yeah look that's the

1130

00:49:20,510 --> 00:49:23,599

thing and although they didn't actually

1131

00:49:21,858 --> 00:49:25,460

have I met army majors in the NASA

1132

00:49:23,599 --> 00:49:27,200

program until the early 70s but we don't

1133

00:49:25,460 --> 00:49:28,970

care about that bill it's fiction it's

1134

00:49:27,199 --> 00:49:30,649

great and you would turn up in your

1135

00:49:28,969 --> 00:49:32,329

convertible you'd have a beautiful

1136

00:49:30,650 --> 00:49:33,680

blonde with you you'd have a cocktail in

1137

00:49:32,329 --> 00:49:34,909

one hand because apparently you could

1138

00:49:33,679 --> 00:49:38,239

drink and drive at that time in

1139

00:49:34,909 --> 00:49:39,679

California and oh flock and smoke and

1140

00:49:38,239 --> 00:49:41,539

that's right people would smoke on

1141
00:49:39,679 --> 00:49:43,338
Jeannie and you'd turn up and you'd be

1142
00:49:41,539 --> 00:49:44,690
going off to some party and Tony could

1143
00:49:43,338 --> 00:49:47,179
never go because there was some accident

1144
00:49:44,690 --> 00:49:48,650
he was it was dressed as a as a as a

1145
00:49:47,179 --> 00:49:50,088
Kalahari Bushmen or something and II

1146
00:49:48,650 --> 00:49:52,070
couldn't go and you went off and had the

1147
00:49:50,088 --> 00:49:53,630
great life and you were the guy I liked

1148
00:49:52,070 --> 00:49:55,849
in that show cuz you are always having a

1149
00:49:53,630 --> 00:49:57,230
good time well that was really me yeah i

1150
00:49:55,849 --> 00:49:59,660
thought we're doing a real picture

1151
00:49:57,230 --> 00:50:01,849
purple and pink Rosby i was doing bible

1152
00:49:59,659 --> 00:50:03,920
in fact was the greatest moments of my

1153
00:50:01,849 --> 00:50:05,780
life when I was right to Steve Allen he

1154
00:50:03,920 --> 00:50:08,539
would all have his piece big-time

1155
00:50:05,780 --> 00:50:10,550
comedians at his party and Jack Benny I

1156
00:50:08,539 --> 00:50:15,980
mean a powerful talked in and looked at

1157
00:50:10,550 --> 00:50:18,530
me said are you doing me yes God and I

1158
00:50:15,980 --> 00:50:20,269
was very powerful and Bing Crosby got oh

1159
00:50:18,530 --> 00:50:22,849
so that's it there's one question about

1160
00:50:20,269 --> 00:50:25,338
are the I Dream of Jeannie set now I've

1161
00:50:22,849 --> 00:50:27,200
got a photo of the inside of barber

1162
00:50:25,338 --> 00:50:28,849
edens bottle there the set that was the

1163
00:50:27,199 --> 00:50:30,679
inside of her genie bottle and I've

1164
00:50:28,849 --> 00:50:32,539
looked at it and it looked like it might

1165
00:50:30,679 --> 00:50:34,368
not have smelt that great what did the

1166
00:50:32,539 --> 00:50:36,529
inside of Barbara Eden's genie bottle

1167
00:50:34,369 --> 00:50:39,950
smell like on the set I always gotta

1168
00:50:36,530 --> 00:50:41,780
light a match because it looked it

1169

00:50:39,949 --> 00:50:43,669
looked a bit moldy it look like we're

1170
00:50:41,780 --> 00:50:45,019
better you know Adam Western Robin used

1171
00:50:43,670 --> 00:50:46,760
to go when they went down the bat-pole

1172
00:50:45,019 --> 00:50:53,358
and look like an area that didn't get

1173
00:50:46,760 --> 00:50:56,150
swept out a lot you know yeah and you

1174
00:50:53,358 --> 00:50:59,509
you were right I your homework look

1175
00:50:56,150 --> 00:51:01,400
amazing and look like Larry Hagman

1176
00:50:59,510 --> 00:51:02,869
you're a damn good-looking tart guy at

1177
00:51:01,400 --> 00:51:04,608
the time did you ever do any modeling or

1178
00:51:02,869 --> 00:51:05,960
stuff I mean they you need to stand up

1179
00:51:04,608 --> 00:51:07,549
in the comedy but like you're a

1180
00:51:05,960 --> 00:51:10,190
good-looking guy you and Larry Hagman

1181
00:51:07,550 --> 00:51:11,450
could've done modeling work as well

1182
00:51:10,190 --> 00:51:13,490
I don't know about that mean Larry

1183
00:51:11,449 --> 00:51:14,839

versus you know I don't know if we could

1184

00:51:13,489 --> 00:51:17,209

have been done bother kind of thought of

1185

00:51:14,840 --> 00:51:18,950

myself as that but that's a in high

1186

00:51:17,210 --> 00:51:22,280

school my hair was boarded when was

1187

00:51:18,949 --> 00:51:23,899

likely to recede we used to pencil are

1188

00:51:22,280 --> 00:51:25,940

here to take nine hours Larry and I to

1189

00:51:23,900 --> 00:51:27,889

put there I still have one hair left on

1190

00:51:25,940 --> 00:51:31,490

now you know I'm doing a show called my

1191

00:51:27,889 --> 00:51:33,529

three hairs I where's your book bill Wiz

1192

00:51:31,489 --> 00:51:35,389

you book well you know I would never do

1193

00:51:33,530 --> 00:51:37,370

partners fighting one I just talked to

1194

00:51:35,389 --> 00:51:38,929

my son he's doing a film in taos great

1195

00:51:37,369 --> 00:51:42,829

time here so great he's gonna be with me

1196

00:51:38,929 --> 00:51:45,019

I an outdoor turkey but it can't I would

1197

00:51:42,829 --> 00:51:47,059

never hurt anybody and if you can't just

1198
00:51:45,019 --> 00:51:48,500
like Barbara I oh she's coming up really

1199
00:51:47,059 --> 00:51:50,509
all these things that she's going to

1200
00:51:48,500 --> 00:51:53,420
work with them and all these things I

1201
00:51:50,510 --> 00:51:56,000
would never ever ever think and I got

1202
00:51:53,420 --> 00:51:57,650
some stories that are just unbelievable

1203
00:51:56,000 --> 00:52:00,949
but I wouldn't do it and it might get

1204
00:51:57,650 --> 00:52:02,329
retreat it I mean I would I'm gonna

1205
00:52:00,949 --> 00:52:03,379
catch up with you it's super nova

1206
00:52:02,329 --> 00:52:05,029
definitely we're gonna have a bit more

1207
00:52:03,380 --> 00:52:06,079
of an intense chat there when you're in

1208
00:52:05,030 --> 00:52:07,670
sydney at the dome i'll be looking

1209
00:52:06,079 --> 00:52:10,130
forward to that but what do you think

1210
00:52:07,670 --> 00:52:11,599
was the strangest episode of i dream of

1211
00:52:10,130 --> 00:52:13,550
jeannie that you did because there was

1212
00:52:11,599 --> 00:52:15,170
some unusual slapstick blah i'm

1213
00:52:13,550 --> 00:52:16,610
particularly the last season there was

1214
00:52:15,170 --> 00:52:18,440
some really wacky stuff going on is

1215
00:52:16,610 --> 00:52:21,200
there one where you were doing it you

1216
00:52:18,440 --> 00:52:23,150
thought wow this is really odd well you

1217
00:52:21,199 --> 00:52:25,429
know i like the thing is I never done

1218
00:52:23,150 --> 00:52:27,590
anything before but after what I like

1219
00:52:25,429 --> 00:52:29,750
when I didn't note that there was a

1220
00:52:27,590 --> 00:52:31,550
genie and my favorite scenes ever were

1221
00:52:29,750 --> 00:52:33,590
on the professor on the boat she

1222
00:52:31,550 --> 00:52:35,690
disappeared they think he killed her and

1223
00:52:33,590 --> 00:52:39,440
he says to me I want you to go home I

1224
00:52:35,690 --> 00:52:41,960
was his talks at all and he said what do

1225
00:52:39,440 --> 00:52:44,150
you want this day was tell the walls I

1226

00:52:41,960 --> 00:52:45,769
love her now desperate and I got an

1227
00:52:44,150 --> 00:52:47,840
ember in the heart I'm doing this thing

1228
00:52:45,769 --> 00:52:49,789
and dr. bill isn't back and I'm telling

1229
00:52:47,840 --> 00:52:51,590
talking of the wall and that was a great

1230
00:52:49,789 --> 00:52:53,360
comment i'm from because i didn't know

1231
00:52:51,590 --> 00:52:56,000
there was a genie and that was my

1232
00:52:53,360 --> 00:52:57,710
favorite all that was on first one no in

1233
00:52:56,000 --> 00:53:00,590
fact me a new heart writing was just

1234
00:52:57,710 --> 00:53:04,130
beyond brilliant and there's I mean that

1235
00:53:00,590 --> 00:53:06,710
that was those guys did they took taxi

1236
00:53:04,130 --> 00:53:08,420
they did cheers that I mean that that

1237
00:53:06,710 --> 00:53:11,230
writing was brilliant and Suzanne

1238
00:53:08,420 --> 00:53:15,260
percent I mean come on give me a break

1239
00:53:11,230 --> 00:53:17,119
and there was some episodes of Jeannie

1240
00:53:15,260 --> 00:53:18,740

where you actually got control of

1241
00:53:17,119 --> 00:53:21,019
Jeannie for that episode you became her

1242
00:53:18,739 --> 00:53:23,089
master and we saw a very dark side of

1243
00:53:21,019 --> 00:53:23,619
Roger Healey he suddenly became a very

1244
00:53:23,090 --> 00:53:25,710
greedy

1245
00:53:23,619 --> 00:53:29,319
egomaniac I want to take over the world

1246
00:53:25,710 --> 00:53:32,079
what I was playing by self playing with

1247
00:53:29,320 --> 00:53:34,210
myself the time bill daley I look

1248
00:53:32,079 --> 00:53:36,250
forward to seeing you at target magic

1249
00:53:34,210 --> 00:53:37,929
Danny all right look look look look I'm

1250
00:53:36,250 --> 00:53:39,190
gonna bring photos books and things for

1251
00:53:37,929 --> 00:53:40,779
you to sign and we're gonna we're going

1252
00:53:39,190 --> 00:53:42,369
to chat till your ears bleed at

1253
00:53:40,780 --> 00:53:45,010
supernova bill i look forward to seeing

1254
00:53:42,369 --> 00:53:46,750
you then and maybe a stubby still got

1255
00:53:45,010 --> 00:53:48,820
that convertible from the 60s look at

1256
00:53:46,750 --> 00:53:50,980
that great 60s convertible that was a

1257
00:53:48,820 --> 00:53:54,130
delegate there was a 90 I saw the

1258
00:53:50,980 --> 00:53:56,469
four-point a thousand dollars mr. Shelby

1259
00:53:54,130 --> 00:53:59,110
i paid forty four thousand paid for it

1260
00:53:56,469 --> 00:54:02,049
hello I rabbit know that get one mind

1261
00:53:59,110 --> 00:54:05,470
one mile out per kelvin okay i just want

1262
00:54:02,050 --> 00:54:07,210
a great dog and um and you know i just

1263
00:54:05,469 --> 00:54:08,859
can't wait to see you guys out I can't

1264
00:54:07,210 --> 00:54:11,829
wait to be in Australia I'm so excited

1265
00:54:08,860 --> 00:54:13,000
I'm just coming over here right thank

1266
00:54:11,829 --> 00:54:15,329
you very much for your time and I will

1267
00:54:13,000 --> 00:54:18,329
see you there bill and great to talking

1268
00:54:15,329 --> 00:54:18,329
bye-bye

1269
00:54:29,670 --> 00:54:34,059
astronomy cast it takes a fact space

1270
00:54:32,019 --> 00:54:35,800
journey through the cosmos as it offers

1271
00:54:34,059 --> 00:54:38,469
listeners weekly discussions on

1272
00:54:35,800 --> 00:54:41,380
astronomical topics ranging from planets

1273
00:54:38,469 --> 00:54:43,838
to cosmology hosted by Fraser Cain of

1274
00:54:41,380 --> 00:54:44,710
Universe Today and myself dr. Pamela gay

1275
00:54:43,838 --> 00:54:47,380
of southern illinois university

1276
00:54:44,710 --> 00:54:49,240
edwardsville this show brings the

1277
00:54:47,380 --> 00:54:51,670
questions of an avid astronomy lover

1278
00:54:49,239 --> 00:54:53,769
directly to an astronomer together

1279
00:54:51,670 --> 00:54:55,300
Fraser and I explore what is known and

1280
00:54:53,769 --> 00:54:58,059
being discovered about the universe

1281
00:54:55,300 --> 00:55:00,160
around us join us each week as we take a

1282
00:54:58,059 --> 00:55:03,690
fax space journey through the cosmos at

1283

00:55:00,159 --> 00:55:03,690
astronomy cast calm

1284
00:55:12,679 --> 00:55:18,739
how do you feel about global win on this

1285
00:55:15,260 --> 00:55:21,680
day I feel very fond of global windows

1286
00:55:18,739 --> 00:55:23,539
it's an important part of our culture

1287
00:55:21,679 --> 00:55:25,279
and I'm glad that it's getting the

1288
00:55:23,539 --> 00:55:27,349
recognition it deserves and what did you

1289
00:55:25,280 --> 00:55:29,150
do to to mark this day last year and

1290
00:55:27,349 --> 00:55:32,088
this year again some sort of party

1291
00:55:29,150 --> 00:55:33,530
planned okay party actually would you be

1292
00:55:32,088 --> 00:55:36,828
the kind of person who would put a wind

1293
00:55:33,530 --> 00:55:38,900
power thing out in their backyard um no

1294
00:55:36,829 --> 00:55:41,000
I don't care about the environment that

1295
00:55:38,900 --> 00:55:43,250
much just nice to have a day where you

1296
00:55:41,000 --> 00:55:45,739
can just talk about wind without fear or

1297
00:55:43,250 --> 00:55:47,568

favour yeah just a day though don't go

1298

00:55:45,739 --> 00:55:48,649

too over the top oh no well you would

1299

00:55:47,568 --> 00:55:50,420

want to go and make it a whole week and

1300

00:55:48,650 --> 00:55:52,338

that would just be ridiculous yeah would

1301

00:55:50,420 --> 00:55:55,940

it get a little tiresome how about that

1302

00:55:52,338 --> 00:55:58,838

ash cloud global wind day over some of

1303

00:55:55,940 --> 00:56:02,420

that here I'm looking at some tub shrubs

1304

00:55:58,838 --> 00:56:04,279

23 meters bending wildly in my direction

1305

00:56:02,420 --> 00:56:07,190

how do you normally commemorate

1306

00:56:04,280 --> 00:56:09,349

International a global wind day there's

1307

00:56:07,190 --> 00:56:13,010

sort of bawling my body up on the floor

1308

00:56:09,349 --> 00:56:16,250

with both clenched fist above the base

1309

00:56:13,010 --> 00:56:18,530

of my skull in a fetal position sort of

1310

00:56:16,250 --> 00:56:20,869

yeah and if I can crawl underneath a

1311

00:56:18,530 --> 00:56:22,700

small table as well that'd be good to

1312
00:56:20,869 --> 00:56:25,400
kind of duck and cover so this is like

1313
00:56:22,699 --> 00:56:27,769
cyclone practice you bet I like to get

1314
00:56:25,400 --> 00:56:32,809
um a small supply of a crumpet and

1315
00:56:27,769 --> 00:56:35,150
crackers around me as well possibly some

1316
00:56:32,809 --> 00:56:36,319
tomatoes in a paring knife you must

1317
00:56:35,150 --> 00:56:38,599
really look forward to the first things

1318
00:56:36,318 --> 00:56:40,969
of June every year yes I say I do I

1319
00:56:38,599 --> 00:56:42,950
shall I do and of course when it comes

1320
00:56:40,969 --> 00:56:44,689
to global wind day there's only one man

1321
00:56:42,949 --> 00:56:46,308
who would want to be represented at the

1322
00:56:44,690 --> 00:56:48,108
front of that particular crowd with his

1323
00:56:46,309 --> 00:56:50,750
sandwich board saying give me more wind

1324
00:56:48,108 --> 00:56:53,449
that'll be Tim Ferguson mer wind more

1325
00:56:50,750 --> 00:56:55,818
wind to the sales already on two sheets

1326
00:56:53,449 --> 00:56:57,769
to the wind I want to get three sheets

1327
00:56:55,818 --> 00:57:01,789
up there and Russell Crowe on the

1328
00:56:57,769 --> 00:57:04,940
lookout regard for years I was joining

1329
00:57:01,789 --> 00:57:08,179
marches saying stop the wind no more

1330
00:57:04,940 --> 00:57:10,280
wind band the wind but these days I've

1331
00:57:08,179 --> 00:57:12,348
changed I've become you know a total

1332
00:57:10,280 --> 00:57:15,680
greenie and I think more wind wind

1333
00:57:12,349 --> 00:57:17,390
faster and wetter than ever before is

1334
00:57:15,679 --> 00:57:19,879
what we need how does your normal

1335
00:57:17,389 --> 00:57:21,650
routine deviate for global wind day well

1336
00:57:19,880 --> 00:57:26,369
of course you have to put on a flowery

1337
00:57:21,650 --> 00:57:28,230
flimsy dress and a moo moo oh yeah

1338
00:57:26,369 --> 00:57:30,900
ooh that's good and you have to wander

1339
00:57:28,230 --> 00:57:34,050
through park singing songs like lalala

1340

00:57:30,900 --> 00:57:35,880
and hey nonny nonny nonny you're the

1341
00:57:34,050 --> 00:57:38,820
kind of person it might just build some

1342
00:57:35,880 --> 00:57:41,400
sort of a wind generation device in your

1343
00:57:38,820 --> 00:57:42,840
backyard merely for the fact that you

1344
00:57:41,400 --> 00:57:45,900
can mock your neighbors that have only

1345
00:57:42,840 --> 00:57:48,120
got solar well I think it's only fair to

1346
00:57:45,900 --> 00:57:50,789
mock my neighbors who only have solar

1347
00:57:48,119 --> 00:57:52,949
because you know what went they standing

1348
00:57:50,789 --> 00:57:55,889
outside and feeling the wind not only

1349
00:57:52,949 --> 00:57:57,869
will I have a big fan making lots of

1350
00:57:55,889 --> 00:58:00,929
noise in the back of my win and killing

1351
00:57:57,869 --> 00:58:03,809
which tailed eagle but I will also have

1352
00:58:00,929 --> 00:58:05,789
a wind sock and then I think all

1353
00:58:03,809 --> 00:58:09,949
Australians can finally say we are

1354
00:58:05,789 --> 00:58:09,949

Australia we blow it out

1355

00:58:28,070 --> 00:58:32,670

hi I'm audit oh yeah Kristen or even

1356

00:58:31,139 --> 00:58:34,949

tipsy died so much glitter of a skeptic

1357

00:58:32,670 --> 00:58:36,630

zone um skeptic Amira in la liga the

1358

00:58:34,949 --> 00:58:38,609

VINs not a blog gear or pub def a

1359

00:58:36,630 --> 00:58:40,920

podcast of reading and skip sistema

1360

00:58:38,610 --> 00:58:42,660

Schlichten this drama central data skips

1361

00:58:40,920 --> 00:58:44,400

a stall demo or higher publicize the

1362

00:58:42,659 --> 00:58:46,379

deeps con our Chiclets and calendar /

1363

00:58:44,400 --> 00:58:47,820

activity or link eternity research it

1364

00:58:46,380 --> 00:58:49,110

escapes his blog in of totality I'm

1365

00:58:47,820 --> 00:58:50,910

Leigh autodesk it Harris hefty

1366

00:58:49,110 --> 00:58:54,170

performance so sticky lon 0 Delta do

1367

00:58:50,909 --> 00:58:54,170

Gaza escapes astotel

1368

00:59:08,900 --> 00:59:13,559

thank you for listening to the skeptic

1369
00:59:11,219 --> 00:59:17,909
zone what a strange show that was what a

1370
00:59:13,559 --> 00:59:21,869
mixed bag of different things now as it

1371
00:59:17,909 --> 00:59:24,538
happens our main art and I went to the

1372
00:59:21,869 --> 00:59:27,509
supernova science fiction festival here

1373
00:59:24,539 --> 00:59:29,579
in Sydney just today and next week we're

1374
00:59:27,509 --> 00:59:31,469
going to play some clips from our little

1375
00:59:29,579 --> 00:59:34,859
adventure out there we even bumped into

1376
00:59:31,469 --> 00:59:37,440
some skeptics own fans all good fun but

1377
00:59:34,858 --> 00:59:43,409
for now this is Richard Saunders signing

1378
00:59:37,440 --> 00:59:46,710
off from Sydney Australia you've been

1379
00:59:43,409 --> 00:59:51,239
listening to the skeptic zone visitor

1380
00:59:46,710 --> 00:59:53,728
hub website at www.skeptics.org on TV for

1381
00:59:51,239 --> 00:59:56,358
comments contacts and extra video

1382
00:59:53,728 --> 00:59:56,358
reports

