The Skeptic Zone
Show 139 - 18 June 2011
Barry Marshall

1
00:00:21,910 --> 00:00:09,110
welcome to the skeptic zone the podcast

2
00:00:31,160 --> 00:00:25,510
it's the septic zone for the 18th of jun

3
00:00:32,709 --> 00:00:31,170
2011 episode number 139 Richardson is

4
00:00:36,760 --> 00:00:32,719
here with you from Sydney Australia

5
00:00:42,590 --> 00:00:36,770
today's episode can only be described as

6
00:00:45,380 --> 00:00:42,600
mixed very mixed it's like a mishmash of

7
00:00:47,120 --> 00:00:45,390
lots of different ideas all cobbled

8
00:00:50,540 --> 00:00:47,130
together we're going to start off with

9
00:00:53,740 --> 00:00:50,550
dr. Richie reports and a lecture she

10
00:00:59,569 --> 00:00:53,750
recorded by barry marshall all about

11
00:01:03,020 --> 00:00:59,579
ulcers yes ulcers really worth listening

12
00:01:05,600 --> 00:01:03,030
to following that we have Phil cam who

13
00:01:08,719 --> 00:01:05,610

gave a talk at Sydney skeptics in the

14
00:01:12,709 --> 00:01:08,729
pub about scripture and ethics classes

15
00:01:15,230 --> 00:01:12,719
in state schools now for many years when

16
00:01:17,539 --> 00:01:15,240
I was going to school once a week for

17
00:01:19,669 --> 00:01:17,549
about an hour or half an hour I had what

18
00:01:22,249 --> 00:01:19,679
they called scripture at the time where

19
00:01:24,319 --> 00:01:22,259
a religious representative would come in

20
00:01:27,620 --> 00:01:24,329
and well basically talk to us about

21
00:01:29,870 --> 00:01:27,630
religion in my case most of the time it

22
00:01:33,709 --> 00:01:29,880
was my own father who happened to be the

23
00:01:36,739 --> 00:01:33,719
local minister anyway that talk by Phil

24
00:01:38,839 --> 00:01:36,749
cam coming up soon and after that we

25
00:01:40,849 --> 00:01:38,849
have a clip from the 60 minutes program

26
00:01:43,969 --> 00:01:40,859
here in Australia who ran a story

27
00:01:46,819 --> 00:01:43,979
critical more than critical about the

28
00:01:50,359 --> 00:01:46,829
anti-vaccination movement the audio from

29
00:01:52,639 --> 00:01:50,369
this is just incredible here Veera

30
00:01:55,819 --> 00:01:52,649
schreibman and Bronwyn Hancock to

31
00:01:58,550 --> 00:01:55,829
staunch anti-vaxxers basically laying

32
00:02:02,089 --> 00:01:58,560
their cards on the table wait'll you

33
00:02:04,639 --> 00:02:02,099
hear this audio and to wind up the show

34
00:02:08,510 --> 00:02:04,649
we're going to have a complete change a

35
00:02:10,940 --> 00:02:08,520
completely different mindset Maynard's

36
00:02:13,280 --> 00:02:10,950
going to speak to Bill Daley Bill Daley

37
00:02:16,550 --> 00:02:13,290
Bill Daley you ask who's bill daley Bill

38
00:02:17,510 --> 00:02:16,560

Daley better known as major Roger Healey

39
00:02:20,900 --> 00:02:17,520
from I jury

40
00:02:23,450 --> 00:02:20,910
of Jeannie yes I know it's left field

41
00:02:25,370 --> 00:02:23,460
it's a great interview just something a

42
00:02:26,930 --> 00:02:25,380
little light-hearted and that's followed

43
00:02:30,350 --> 00:02:26,940
by something even more lighthearted

44
00:02:34,030 --> 00:02:30,360
where may nod talks about global wind

45
00:02:37,370 --> 00:02:34,040
day something at the end of the show

46
00:02:38,390 --> 00:02:37,380
just to have a laugh well I'm going to

47
00:02:40,910 --> 00:02:38,400
have a laugh I'm going to race

48
00:02:44,840 --> 00:02:40,920
downstairs grab another root beer have a

49
00:03:00,560 --> 00:02:44,850
laugh and let you listen to the skeptics

50
00:03:09,090 --> 00:03:03,960
now it's time for dr. Rachel reports

51
00:03:12,150 --> 00:03:09,100
with dr. Rachel Dunlop hello listeners

52
00:03:13,860 --> 00:03:12,160
and welcome to dr. Richie reports well

53
00:03:16,770 --> 00:03:13,870
this week I present for you part of a

54
00:03:19,050 --> 00:03:16,780
lecture given by dr. Barry Marshall now

55
00:03:21,449 --> 00:03:19,060
many of you may know this name he was

56
00:03:24,170 --> 00:03:21,459
awarded the nobel prize in physiology or

57
00:03:27,090 --> 00:03:24,180
medicine along with dr. robin warren in

58
00:03:29,640 --> 00:03:27,100
2005 for his discovery that the

59
00:03:32,729 --> 00:03:29,650
bacterium hello back to pylori is the

60
00:03:34,740 --> 00:03:32,739
cause of most peptic ulcers now this

61
00:03:36,660 --> 00:03:34,750
finding reversed decades of medical

62
00:03:39,270 --> 00:03:36,670
doctrine which stated that alters were

63
00:03:43,110 --> 00:03:39,280

caused by stress spicy foods or too much

64
00:03:44,970 --> 00:03:43,120
acid now Barry Marshall is a native of

65
00:03:47,940 --> 00:03:44,980
Western Australia and he received his

66
00:03:50,180 --> 00:03:47,950
degree in surgery and medicine in 1975

67
00:03:52,500 --> 00:03:50,190
from the University of Western Australia

68
00:03:54,840 --> 00:03:52,510
he currently holds a position of

69
00:03:57,960 --> 00:03:54,850
professor of clinical microbiology at

70
00:04:00,900 --> 00:03:57,970
the same University now along with the

71
00:04:03,000 --> 00:04:00,910
Nobel Prize in 2005 Barry is a highly

72
00:04:04,949 --> 00:04:03,010
decorated physician who was also

73
00:04:08,340 --> 00:04:04,959
appointed a companion of the order of

74
00:04:09,990 --> 00:04:08,350
australia in 2007 has been awarded an

75
00:04:13,140 --> 00:04:10,000
honorary doctor of science from the

76
00:04:16,199 --> 00:04:13,150
University of Oxford in 2009 along with

77
00:04:17,909 --> 00:04:16,209
many and varied other awards the lecture

78
00:04:19,770 --> 00:04:17,919
you'll hear today is part of a talk that

79
00:04:21,270 --> 00:04:19,780
Barry gave at the dinner for the

80
00:04:24,210 --> 00:04:21,280
Australian science and medical research

81
00:04:26,700 --> 00:04:24,220
week celebrations held here in Sydney in

82
00:04:28,800 --> 00:04:26,710
early June now I apologize for some

83
00:04:30,960 --> 00:04:28,810
clinking cutlery and food noises at the

84
00:04:32,550 --> 00:04:30,970
beginning of this talk but it only lasts

85
00:04:34,650 --> 00:04:32,560
for a short time and I urge you to

86
00:04:37,530 --> 00:04:34,660
persist because the content is really

87
00:04:39,780 --> 00:04:37,540
really fascinating you'll also hear in

88
00:04:42,270 --> 00:04:39,790

this lecture Barry refer to a cartoon

89
00:04:44,730 --> 00:04:42,280
which depicts him drinking a flask full

90
00:04:47,159 --> 00:04:44,740
of green muck containing hello back to

91
00:04:49,980 --> 00:04:47,169
pylori in an effort to prove that it

92
00:04:52,320 --> 00:04:49,990
actually causes stomach ulcers if you'd

93
00:04:54,300 --> 00:04:52,330
like to see the entire cartoon there's a

94
00:04:56,370 --> 00:04:54,310
link to the PDF in our newsletter for

95
00:04:58,800 --> 00:04:56,380
this week and you can find a link to the

96
00:05:01,620 --> 00:04:58,810
newsletter on dub dub dub skeptic zone

97
00:05:05,080 --> 00:05:01,630
TV and if you're on twitter you can

98
00:05:08,320 --> 00:05:05,090
follow Barry at be a rja

99
00:05:10,240 --> 00:05:08,330
ma r or bar Gemma I hope you enjoyed

100
00:05:12,280 --> 00:05:10,250
this lecture as much as I did and until

101
00:05:17,710 --> 00:05:12,290
next time this has been dr. Richie

102
00:05:21,100 --> 00:05:17,720
reports so we started Alfred Nobel

103
00:05:23,110 --> 00:05:21,110
displacement from his own biography and

104
00:05:26,950 --> 00:05:23,120
he was unwell all his life no he

105
00:05:28,330 --> 00:05:26,960
discovered he made nitroglycerin is to

106
00:05:31,270 --> 00:05:28,340
shift all around the world including

107
00:05:33,250 --> 00:05:31,280
Australia with dangerous everybody said

108
00:05:35,800 --> 00:05:33,260
the opportunities and he came up with

109
00:05:37,600 --> 00:05:35,810
the site by the nitroglycerin which was

110
00:05:39,820 --> 00:05:37,610
going to make it makes a good play and

111
00:05:42,430 --> 00:05:39,830
fuel oil or something and then he like

112
00:05:46,020 --> 00:05:42,440
plasticine but it doesn't go off whole

113
00:05:48,340 --> 00:05:46,030

time and he invented blasting caps and

114
00:05:50,080 --> 00:05:48,350
safety fuse so with that combination

115
00:05:52,510 --> 00:05:50,090
which she praised everything at the

116
00:05:57,430 --> 00:05:52,520
novell dynamite company I think it still

117
00:06:00,070 --> 00:05:57,440
exists to this day and one or well but

118
00:06:02,740 --> 00:06:00,080
it was a big typhoon that really had no

119
00:06:05,110 --> 00:06:02,750
pleasure out of his rich mob killed of

120
00:06:07,300 --> 00:06:05,120
lifestyle because he could never enjoy a

121
00:06:09,219 --> 00:06:07,310
meal he always had to adjust stomach

122
00:06:11,830 --> 00:06:09,229
pain all the time i used to go after

123
00:06:14,469 --> 00:06:11,840
these mysterious water treatments in

124
00:06:17,980 --> 00:06:14,479
poland and radioactive water or all I

125
00:06:21,400 --> 00:06:17,990
kind of stuff but nothing anybody didn't

126
00:06:23,440 --> 00:06:21,410
play in do this to even notice so he

127
00:06:26,320 --> 00:06:23,450
finally passed away well I think died

128
00:06:28,870 --> 00:06:26,330
from my he had a myocardial infarction

129
00:06:30,310 --> 00:06:28,880
and dryer and a stroke and that's

130
00:06:32,110 --> 00:06:30,320
actually what used to happen to people

131
00:06:34,089 --> 00:06:32,120
with ulcers because there would be one

132
00:06:36,850 --> 00:06:34,099
of these special diets course if he dies

133
00:06:39,129 --> 00:06:36,860
they would be treating cream and milk

134
00:06:41,080 --> 00:06:39,139
and butter in kind of food instead of

135
00:06:43,540 --> 00:06:41,090
having a state they have to have east on

136
00:06:45,730 --> 00:06:43,550
a hay or whatever but all this creamy

137
00:06:48,339 --> 00:06:45,740
foods and so don't get accelerated

138
00:06:51,100 --> 00:06:48,349

atherosclerosis and people with offices

139
00:06:53,020 --> 00:06:51,110
to die often not from there also that

140
00:06:54,700 --> 00:06:53,030
I've after I sporadic disease so there

141
00:06:56,710 --> 00:06:54,710
was in the Lich's those losses

142
00:06:58,390 --> 00:06:56,720
mysterious connection so here's his

143
00:07:00,129 --> 00:06:58,400
biography and it said that he always

144
00:07:03,279 --> 00:07:00,139
complained of indigestion headaches and

145
00:07:05,170 --> 00:07:03,289
occasional spells of depression and died

146
00:07:08,980 --> 00:07:05,180
he was overworked or under serious

147
00:07:10,750 --> 00:07:08,990
mental stress and so this is a strategy

148
00:07:12,279 --> 00:07:10,760
doctor to have for hundreds of years

149
00:07:13,779 --> 00:07:12,289
when you go to the doctor you can't

150
00:07:15,760 --> 00:07:13,789
figure out what's wrong with you he

151
00:07:16,220 --> 00:07:15,770
doesn't tell you that these bits on

152
00:07:18,530 --> 00:07:16,230
success

153
00:07:20,180 --> 00:07:18,540
I think you're under serious mental

154
00:07:23,180 --> 00:07:20,190
stress and that is the cause of your

155
00:07:25,460 --> 00:07:23,190
illness so that then absolves him from

156
00:07:27,470 --> 00:07:25,470
Manning to make a proper diagnosis and

157
00:07:29,900 --> 00:07:27,480
puts the oddness of the treatment and

158
00:07:31,790 --> 00:07:29,910
the cure of the condition on you and you

159
00:07:33,380 --> 00:07:31,800
can't possibly get rid of the stress in

160
00:07:36,620 --> 00:07:33,390
your life we all have it is just a

161
00:07:38,770 --> 00:07:36,630
natural thing but now it's the problem

162
00:07:41,240 --> 00:07:38,780
the reason he cannot fix your ulcer or

163
00:07:42,680 --> 00:07:41,250

whatever it is irritable bowel would be

164
00:07:45,500 --> 00:07:42,690
good when I see in gastroenterology

165
00:07:47,450 --> 00:07:45,510
clinics is because you're under too much

166
00:07:49,400 --> 00:07:47,460
stress and obviously I come fix that I'm

167
00:07:53,270 --> 00:07:49,410
just a doctor and it's your fault your

168
00:07:56,270 --> 00:07:53,280
problem so the classic quintessential

169
00:07:58,700 --> 00:07:56,280
stress disease which I love to bring

170
00:08:00,680 --> 00:07:58,710
down was actually peptic ulcer used to

171
00:08:03,410 --> 00:08:00,690
run in families but did have this

172
00:08:04,960 --> 00:08:03,420
awesome personality if you had ulcers

173
00:08:08,600 --> 00:08:04,970
but that was because the main

174
00:08:10,130 --> 00:08:08,610
tranquilizer food there is no work very

175
00:08:12,260 --> 00:08:10,140
well if you had an ulcer and so you

176
00:08:16,550 --> 00:08:12,270
would get this stressed hyperactive

177
00:08:18,590 --> 00:08:16,560
personality type a person ID I guess run

178
00:08:20,480 --> 00:08:18,600
in families worse with smoking it would

179
00:08:23,090 --> 00:08:20,490
happen in the spring during the exam

180
00:08:24,800 --> 00:08:23,100
time and why was that was it stress well

181
00:08:27,350 --> 00:08:24,810
when I was under stress during an exam

182
00:08:29,630 --> 00:08:27,360
time is to miss meals I would stay at

183
00:08:31,400 --> 00:08:29,640
the dorm rooms rather than a time I'd be

184
00:08:33,500 --> 00:08:31,410
drinking coffee and a smoke e-cigarettes

185
00:08:35,540 --> 00:08:33,510
all night and all that kind of stuff so

186
00:08:38,000 --> 00:08:35,550
I can see if I had a tendency to an

187
00:08:41,060 --> 00:08:38,010
ulcer I would develop it during exam

188
00:08:44,270 --> 00:08:41,070

time when I was in college and so this

189
00:08:46,820 --> 00:08:44,280
these seem depending and stress so now

190
00:08:48,500 --> 00:08:46,830
we know that stress didn't cause ulcers

191
00:08:51,140 --> 00:08:48,510
but it was very difficult to convince

192
00:08:55,430 --> 00:08:51,150
anybody that stressed in off course also

193
00:08:57,470 --> 00:08:55,440
is just as bacteria so in retrospect and

194
00:08:59,750 --> 00:08:57,480
you could do you know innate and 90 you

195
00:09:01,910 --> 00:08:59,760
couldn't do an endoscopy so the only way

196
00:09:04,820 --> 00:09:01,920
you could actually diagnosis was that

197
00:09:06,320 --> 00:09:04,830
post-mortem so poor old Alfred I Valley

198
00:09:09,350 --> 00:09:06,330
didn't even have a post-mortem on that

199
00:09:12,920 --> 00:09:09,360
think so they didn't really happen and

200
00:09:15,680 --> 00:09:12,930
so in the 21st century stress is still a

201
00:09:17,990 --> 00:09:15,690
great excuse for idiopathic conditions

202
00:09:18,500 --> 00:09:18,000
and I say to young people in doing any

203
00:09:20,210 --> 00:09:18,510
research

204
00:09:22,550 --> 00:09:20,220
you ever go to a doctor and he says it's

205
00:09:25,070 --> 00:09:22,560
called my stress you're thinking in the

206
00:09:27,230 --> 00:09:25,080
back of my back your head if I find out

207
00:09:30,920 --> 00:09:27,240
the real cause there's a Nobel Prize at

208
00:09:33,110 --> 00:09:30,930
math so this is why there's still a few

209
00:09:36,740 --> 00:09:33,120
Nobel prizes out there in clinical

210
00:09:39,740 --> 00:09:36,750
medicine why is it difficult to have new

211
00:09:42,890 --> 00:09:39,750
discoveries and new medical discoveries

212
00:09:45,740 --> 00:09:42,900
particularly accepted and the man if

213
00:09:47,600 --> 00:09:45,750

that is Dan Boston who was the librarian

214
00:09:49,340 --> 00:09:47,610
for the US Congress and he said the

215
00:09:51,350 --> 00:09:49,350
greatest obstacle to knowledge it's not

216
00:09:53,720 --> 00:09:51,360
ignorance it's the illusion of knowledge

217
00:09:55,250 --> 00:09:53,730
so if everybody thinks they already know

218
00:09:57,410 --> 00:09:55,260
the answer they're not looking for

219
00:09:59,570 --> 00:09:57,420
another answer and they're not receptive

220
00:10:01,970 --> 00:09:59,580
to the innovation that you're producing

221
00:10:03,860 --> 00:10:01,980
you're saying you create you're creating

222
00:10:06,920 --> 00:10:03,870
an invention without a use or without

223
00:10:10,310 --> 00:10:06,930
any need to heaven and swords there

224
00:10:12,500 --> 00:10:10,320
we've got tagamet acid blockers we know

225
00:10:14,500 --> 00:10:12,510
stress causes ulcers too much acid we

226
00:10:16,820 --> 00:10:14,510
don't need another course which is this

227
00:10:20,000 --> 00:10:16,830
bacteria which must be such the fine

228
00:10:22,520 --> 00:10:20,010
print and I'm saying no no ninety-five

229
00:10:24,950 --> 00:10:22,530
percent of ulcers of these new bacterial

230
00:10:26,540 --> 00:10:24,960
ones they say get out of it so here's

231
00:10:28,430 --> 00:10:26,550
Warren's original observation the

232
00:10:30,940 --> 00:10:28,440
bacteria's sticking all over the cells

233
00:10:33,170 --> 00:10:30,950
of the stomach and it's the little black

234
00:10:34,670 --> 00:10:33,180
Helicobacter there so you can see you're

235
00:10:36,260 --> 00:10:34,680
a microbiologist you can see straight

236
00:10:38,420 --> 00:10:36,270
away that's a pure culture of bacteria

237
00:10:41,990 --> 00:10:38,430
they're not wash down there through

238
00:10:44,570 --> 00:10:42,000

email and this is what I look like this

239
00:10:46,670 --> 00:10:44,580
is a duodenal ulcer this is do it in la

240
00:10:48,980 --> 00:10:46,680
severe a bleeding potentially fatal

241
00:10:50,720 --> 00:10:48,990
awesome and then here's a gastric ulcer

242
00:10:53,630 --> 00:10:50,730
in the stomach which could move right

243
00:10:56,360 --> 00:10:53,640
through here peritonitis so Warren and I

244
00:10:58,970 --> 00:10:56,370
we started to find out who had these

245
00:11:01,760 --> 00:10:58,980
bacteria we looked at a hundred people

246
00:11:04,490 --> 00:11:01,770
who were coming to have the scope down

247
00:11:05,750 --> 00:11:04,500
for various conditions notice those we

248
00:11:07,850 --> 00:11:05,760
always used to have to have a hundred

249
00:11:09,860 --> 00:11:07,860
people in our clinical research because

250
00:11:11,360 --> 00:11:09,870
we didn't have a computer but if we had

251
00:11:14,580 --> 00:11:11,370
a hundred in the study we could easily

252
00:11:17,400 --> 00:11:14,590
say are you thirteen percent

253
00:11:19,410 --> 00:11:17,410
the a fifty eight percent so very easy

254
00:11:21,600 --> 00:11:19,420
to get the tables correct with the

255
00:11:23,790 --> 00:11:21,610
government so fifty-eight percent had

256
00:11:26,910 --> 00:11:23,800
the bacteria but if you had a duodenal

257
00:11:29,640 --> 00:11:26,920
also good hanging out of thirteen i 100%

258
00:11:32,700 --> 00:11:29,650
or gastric also seventy-seven percent so

259
00:11:34,350 --> 00:11:32,710
that was significantly different and so

260
00:11:36,900 --> 00:11:34,360
we had an association between the

261
00:11:38,670 --> 00:11:36,910
bacteria and ulcers but a very strong

262
00:11:40,160 --> 00:11:38,680
association the only way you get a

263
00:11:42,600 --> 00:11:40,170

hundred percent in any medical

264
00:11:44,460 --> 00:11:42,610
experiment is if you faked your results

265
00:11:48,150 --> 00:11:44,470
as far as i was concerned one hundred

266
00:11:51,150 --> 00:11:48,160
percent in any kind of data is rubbish

267
00:11:53,130 --> 00:11:51,160
and so we set out to find out what was

268
00:11:55,680 --> 00:11:53,140
going on figure out why these bacteria

269
00:11:57,420 --> 00:11:55,690
can survive in answer to cetera and we

270
00:11:59,370 --> 00:11:57,430
try to publish it so that the question

271
00:12:02,280 --> 00:11:59,380
would be though on one side you've got

272
00:12:05,010 --> 00:12:02,290
these companies making three billion

273
00:12:07,410 --> 00:12:05,020
dollars a year global companies millions

274
00:12:09,090 --> 00:12:07,420
of people taking the medication stress

275
00:12:10,140 --> 00:12:09,100
cause i'll sit on the other side you've

276
00:12:11,940 --> 00:12:10,150
got two guys in western australia

277
00:12:14,760 --> 00:12:11,950
publishing their first paper in The

278
00:12:16,950 --> 00:12:14,770
Lancet on the basis of thirteen patients

279
00:12:19,980 --> 00:12:16,960
would the world except that you cause

280
00:12:22,710 --> 00:12:19,990
for answers and so it's just no way but

281
00:12:24,450 --> 00:12:22,720
in my naivety I spoke to warrant at

282
00:12:25,980 --> 00:12:24,460
dinner one night and we reckoned we were

283
00:12:28,860 --> 00:12:25,990
going to win the Nobel Prize in about

284
00:12:32,640 --> 00:12:28,870
nineteen eighty six we were not

285
00:12:34,230 --> 00:12:32,650
expecting a 20-year way so there we are

286
00:12:37,440 --> 00:12:34,240
we did we were pretty confident because

287
00:12:39,630 --> 00:12:37,450
we found that other people had

288
00:12:43,620 --> 00:12:39,640

discovered stomach bacteria before and

289
00:12:45,990 --> 00:12:43,630
the famous one is this I saw sir Owen an

290
00:12:47,700 --> 00:12:46,000
anatomist and he actually studied the

291
00:12:49,680 --> 00:12:47,710
red he figured out the red cells

292
00:12:52,020 --> 00:12:49,690
actually actually had nucleated

293
00:12:54,210 --> 00:12:52,030
precursors in the bone marrow so people

294
00:12:55,860 --> 00:12:54,220
used to say you don't need a nucleus to

295
00:12:57,510 --> 00:12:55,870
pepper dividing sell the rule of red

296
00:12:59,730 --> 00:12:57,520
cells and he said oh no they have

297
00:13:01,770 --> 00:12:59,740
nucleated red produced in the Mara so he

298
00:13:04,560 --> 00:13:01,780
was already famous but the other thing

299
00:13:07,200 --> 00:13:04,570
he said acid torrent spirochetes living

300
00:13:09,570 --> 00:13:07,210
the dog stomach so even a hundred years

301
00:13:11,670 --> 00:13:09,580
before we came on the scene was in the

302
00:13:14,220 --> 00:13:11,680
literature that bacteria could live in

303
00:13:16,770 --> 00:13:14,230
the stomach of animals like cats and

304
00:13:18,570 --> 00:13:16,780
dogs and kasasa wrote had shown that see

305
00:13:20,490 --> 00:13:18,580
the spirochetes they're inside Bryant

306
00:13:22,490 --> 00:13:20,500
ourselves anyway so we were fairly

307
00:13:24,130 --> 00:13:22,500
confident we submitted our paper to the

308
00:13:26,290 --> 00:13:24,140
Australian meeting

309
00:13:28,780 --> 00:13:26,300
and they wrote us a letter back saying

310
00:13:30,550 --> 00:13:28,790
Andy dr. Marshall we regret your

311
00:13:33,970 --> 00:13:30,560
research paper was not accepted for

312
00:13:36,160 --> 00:13:33,980
presentation we didn't even get a poster

313
00:13:37,780 --> 00:13:36,170

the number of abstracts we receive

314
00:13:39,700 --> 00:13:37,790
continues to increase it for this

315
00:13:42,520 --> 00:13:39,710
meeting 67 were submitted we could only

316
00:13:46,810 --> 00:13:42,530
accept 50 60 don't feel so bad then we

317
00:13:48,910 --> 00:13:46,820
wanted to that will worsen you of course

318
00:13:52,060 --> 00:13:48,920
I was pretty depressed about that but

319
00:13:54,630 --> 00:13:52,070
luckily I did keep that rejection letter

320
00:13:58,390 --> 00:13:54,640
so I say to young people in science

321
00:14:00,010 --> 00:13:58,400
extract rejection and keep that

322
00:14:02,290 --> 00:14:00,020
rejection letter you put it in a brown

323
00:14:04,750 --> 00:14:02,300
envelope keep it in the body draw of you

324
00:14:06,040 --> 00:14:04,760
if you have your bedroom outdoor you

325
00:14:08,050 --> 00:14:06,050
don't have to read it it's too

326
00:14:10,240 --> 00:14:08,060
depressing but keep it there because

327
00:14:12,930 --> 00:14:10,250
here's lay that you be able to show copy

328
00:14:15,280 --> 00:14:12,940
of that lecture in your speech if you

329
00:14:17,830 --> 00:14:15,290
succeed and you turn out to be right

330
00:14:19,630 --> 00:14:17,840
unable to find a suitable animal model

331
00:14:23,050 --> 00:14:19,640
Marshall must experiment on himself this

332
00:14:24,970 --> 00:14:23,060
is a quote from is what a comment and

333
00:14:27,280 --> 00:14:24,980
this is the product put out by the avid

334
00:14:29,080 --> 00:14:27,290
company when we discovered the

335
00:14:31,330 --> 00:14:29,090
antibiotic that kills Helicobacter

336
00:14:33,040 --> 00:14:31,340
clarithromycin they came to me and said

337
00:14:34,390 --> 00:14:33,050
what do you want to make this comic

338
00:14:35,770 --> 00:14:34,400

we're going to give it to every doctor

339
00:14:39,070 --> 00:14:35,780
in America so they know how to treat

340
00:14:41,290 --> 00:14:39,080
ulcers there's 150,000 copies some

341
00:14:43,150 --> 00:14:41,300
number like that anyway and they said

342
00:14:44,740 --> 00:14:43,160
the comic strip artist over to hit the

343
00:14:46,960 --> 00:14:44,750
interview me and he was the same guy who

344
00:14:49,810 --> 00:14:46,970
does the incredible hulk for Marvel

345
00:14:51,520 --> 00:14:49,820
Marvel Comics and so I didn't actually

346
00:14:53,740 --> 00:14:51,530
have to bust my tissue open or anything

347
00:14:56,710 --> 00:14:53,750
but I did have to drink a very green

348
00:14:58,210 --> 00:14:56,720
looking brew of helicobacter pylori the

349
00:15:01,110 --> 00:14:58,220
proved that could affect a healthy

350
00:15:04,240 --> 00:15:01,120
person and course ulcers and so I

351
00:15:06,490 --> 00:15:04,250
surprisingly I did have an illness and

352
00:15:09,400 --> 00:15:06,500
after five days of started vomiting and

353
00:15:12,400 --> 00:15:09,410
that went on for a while I was getting

354
00:15:16,720 --> 00:15:12,410
all worried about me and finally we took

355
00:15:18,820 --> 00:15:16,730
a biopsy and long behold very very yelps

356
00:15:21,010 --> 00:15:18,830
various very heavy infection with

357
00:15:22,900 --> 00:15:21,020
Helicobacter sigh had proved that normal

358
00:15:25,420 --> 00:15:22,910
person could catch these bacteria you

359
00:15:27,280 --> 00:15:25,430
didn't have to have an ulcer first so it

360
00:15:29,710 --> 00:15:27,290
was possible bacteria came first and

361
00:15:30,720 --> 00:15:29,720
they also came as a consequence and one

362
00:15:32,550 --> 00:15:30,730
thing led to another

363
00:15:34,230 --> 00:15:32,560

and that that was published as a

364
00:15:36,329 --> 00:15:34,240
hypothesis in the medical journal in

365
00:15:38,340 --> 00:15:36,339
Australia so the edge of medical journal

366
00:15:41,930 --> 00:15:38,350
Australia really stuck his neck out

367
00:15:45,509 --> 00:15:41,940
because it was ten years before people

368
00:15:48,180 --> 00:15:45,519
said it's true and then went back to the

369
00:15:51,629 --> 00:15:48,190
medical journals Australia and read it

370
00:15:56,129 --> 00:15:51,639
and it was exactly right and so that is

371
00:15:57,720 --> 00:15:56,139
the second most cited paper ever in the

372
00:15:59,160 --> 00:15:57,730
medical journal Australia they are the

373
00:16:02,069 --> 00:15:59,170
number one paper is actually the

374
00:16:04,170 --> 00:16:02,079
discovery of lithium or a manic

375
00:16:06,030 --> 00:16:04,180
depression so why did it take 23 years

376
00:16:09,269 --> 00:16:06,040
to win the Nobel verizon is an

377
00:16:11,550 --> 00:16:09,279
interesting coincidence not 1882 Robert

378
00:16:14,129 --> 00:16:11,560
cocky cultured the TB bacilli nobody

379
00:16:17,129 --> 00:16:14,139
believed that they caused DB go to

380
00:16:19,769 --> 00:16:17,139
comment so he did this anything

381
00:16:22,050 --> 00:16:19,779
experiment with any pics got TV after

382
00:16:24,120 --> 00:16:22,060
being leavin the bacteria and he called

383
00:16:26,370 --> 00:16:24,130
that Koch's postulates the rules

384
00:16:30,360 --> 00:16:26,380
required to prove bacterias harmful you

385
00:16:34,860 --> 00:16:30,370
know about that 1884 and then in 1905 he

386
00:16:39,150 --> 00:16:34,870
won the Nobel Prize for the infection TV

387
00:16:41,430 --> 00:16:39,160
and 1982 Warren and martial culture

388
00:16:44,370 --> 00:16:41,440

bacteria the first iconic effective

389
00:16:46,340 --> 00:16:44,380
pylori and it was nineteen eighty-four

390
00:16:49,410 --> 00:16:46,350
was the year that I Drake the bacteria

391
00:16:51,300 --> 00:16:49,420
100 years after Koch's postulates were

392
00:16:55,110 --> 00:16:51,310
described and so we think that

393
00:16:56,370 --> 00:16:55,120
karolinska committee giving the Nobel

394
00:16:58,290 --> 00:16:56,380
Prize they wanted to wait towards the

395
00:17:00,420 --> 00:16:58,300
hundredth anniversary of Robert cotton

396
00:17:02,280 --> 00:17:00,430
people were they gave us out Nobel so

397
00:17:04,199 --> 00:17:02,290
it's not there wasn't a good one and

398
00:17:08,549 --> 00:17:04,209
said they'd like the history of it and

399
00:17:08,559 --> 00:17:19,260
you

400
00:17:24,460 --> 00:17:22,330
this is des Rochelle hosted skeptically

401
00:17:26,950 --> 00:17:24,470
speaking check out our website at

402
00:17:30,820 --> 00:17:26,960
skeptically speaking calm and listen to

403
00:17:34,600 --> 00:17:30,830
us live on CJ SR 88.5 FM in Edmonton

404
00:17:45,460 --> 00:17:34,610
Alberta Canada I now return you to the

405
00:17:48,340 --> 00:17:45,470
skeptic zone professor Phil cam who is I

406
00:17:52,420 --> 00:17:48,350
think i could say single-handedly

407
00:17:54,130 --> 00:17:52,430
responsible for the ethics classes that

408
00:17:57,430 --> 00:17:54,140
are now being run in New South Wales

409
00:18:01,360 --> 00:17:57,440
schools at the time when kids would

410
00:18:03,250 --> 00:18:01,370
normally go to other religious education

411
00:18:06,400 --> 00:18:03,260
classes a lot of kids obviously still do

412
00:18:07,960 --> 00:18:06,410
or those who prefer not whose parents

413
00:18:10,450 --> 00:18:07,970

prefer for them not to go to religious

414
00:18:12,400 --> 00:18:10,460
education classes would spend the time

415
00:18:14,080 --> 00:18:12,410
at the library or doing all kinds of

416
00:18:14,980 --> 00:18:14,090
other boring things because they're not

417
00:18:19,090 --> 00:18:14,990
allowed to do anything productive

418
00:18:26,140 --> 00:18:19,100
otherwise without further ado I'll hand

419
00:18:31,400 --> 00:18:29,600
thanks very much for that that's been

420
00:18:34,250 --> 00:18:31,410
told I've got about 20 minutes to talk

421
00:18:37,940 --> 00:18:34,260
to you and since I'm just recently back

422
00:18:40,970 --> 00:18:37,950
from Europe on a long flight with deep

423
00:18:43,370 --> 00:18:40,980
vein thrombosis and jabs all over the

424
00:18:45,170 --> 00:18:43,380
place and dosed up with stuff you'll

425
00:18:46,640 --> 00:18:45,180
forgive me if I sort of wander in

426
00:18:49,700 --> 00:18:46,650
various ways but I try to do my best

427
00:18:51,860 --> 00:18:49,710
start topic the topic for tonight

428
00:18:54,890 --> 00:18:51,870
actually is that I've been asked to talk

429
00:18:58,970 --> 00:18:54,900
about is the ethics trial that was held

430
00:19:02,900 --> 00:18:58,980
in New South Wales at this time last

431
00:19:04,850 --> 00:19:02,910
year and as a result of which with some

432
00:19:07,940 --> 00:19:04,860
changes in the Education Act and a lot

433
00:19:11,810 --> 00:19:07,950
of pushing and shoving politically now

434
00:19:13,940 --> 00:19:11,820
continuing on in school system at least

435
00:19:17,780 --> 00:19:13,950
on a fledgling basis we'll see what

436
00:19:20,110 --> 00:19:17,790
happens as the new government sort of

437
00:19:22,820 --> 00:19:20,120
comes into its powers but let me go back

438
00:19:24,920 --> 00:19:22,830

first of all just fill you in a little

439
00:19:27,080 --> 00:19:24,930
bit on the background of this I know it

440
00:19:29,480 --> 00:19:27,090
will be familiar to some people but I'm

441
00:19:35,120 --> 00:19:29,490
sure it's not entirely familiar to

442
00:19:38,030 --> 00:19:35,130
others back in 2009 the San James ethic

443
00:19:41,650 --> 00:19:38,040
center here in Sydney approached me

444
00:19:45,350 --> 00:19:41,660
about the possibility of constructing a

445
00:19:48,620 --> 00:19:45,360
program of ethics for children in

446
00:19:52,390 --> 00:19:48,630
schools as a compliment that's what they

447
00:19:56,420 --> 00:19:52,400
called it to special religious education

448
00:19:58,610 --> 00:19:56,430
they approached me because I from the

449
00:20:01,030 --> 00:19:58,620
University of New South Wales I made a

450
00:20:03,020 --> 00:20:01,040
reputation over many years writing

451
00:20:04,490 --> 00:20:03,030
philosophy for children because I come

452
00:20:05,660 --> 00:20:04,500
from our school of actually these days

453
00:20:08,750 --> 00:20:05,670
history and philosophy but on a

454
00:20:10,610 --> 00:20:08,760
philosopher bite by profession and I've

455
00:20:12,500 --> 00:20:10,620
done a lot of work in in philosophy for

456
00:20:16,190 --> 00:20:12,510
children and written extensively for

457
00:20:18,260 --> 00:20:16,200
children and work with teachers both

458
00:20:20,930 --> 00:20:18,270
here and abroad so they thought I was a

459
00:20:23,120 --> 00:20:20,940
person to ask about this and indeed i

460
00:20:28,030 --> 00:20:23,130
guess i was probably the person to ask

461
00:20:30,950 --> 00:20:28,040
but it turned out that this this project

462
00:20:33,560 --> 00:20:30,960
as it transpired had all sorts of

463
00:20:36,620 --> 00:20:33,570

problems and issues i want to talk about

464
00:20:38,380 --> 00:20:36,630
some of those problems and issues after

465
00:20:40,120 --> 00:20:38,390
I fill you in on the on the hist

466
00:20:42,700 --> 00:20:40,130
Markel background anyway so this in

467
00:20:44,890 --> 00:20:42,710
James ethics center people came to speak

468
00:20:47,770 --> 00:20:44,900
to me Simon Longstaff their director of

469
00:20:50,110 --> 00:20:47,780
the center and a couple of his officers

470
00:20:52,780 --> 00:20:50,120
came to speak to me and they had in fact

471
00:20:54,250 --> 00:20:52,790
approached previous administrations now

472
00:20:56,760 --> 00:20:54,260
we're talking about the previous Labour

473
00:20:58,750 --> 00:20:56,770
government but they approached previous

474
00:21:00,610 --> 00:20:58,760
administrations I think they're on two

475
00:21:02,890 --> 00:21:00,620
occasions both of them labour actually

476
00:21:04,600 --> 00:21:02,900
and had been turned down when they

477
00:21:07,570 --> 00:21:04,610
proposed that there might be something

478
00:21:09,160 --> 00:21:07,580
for kids to do who don't go to Scripture

479
00:21:12,850 --> 00:21:09,170
as it's called special religious

480
00:21:16,630 --> 00:21:12,860
education held once a week now this

481
00:21:19,960 --> 00:21:16,640
scripture period by the way is something

482
00:21:23,860 --> 00:21:19,970
of that goes right back to the education

483
00:21:27,220 --> 00:21:23,870
act so it's very very old and it prints

484
00:21:31,150 --> 00:21:27,230
a provision for recognized religious

485
00:21:33,130 --> 00:21:31,160
groups which recognized churches to have

486
00:21:36,430 --> 00:21:33,140
a provision for children in school of up

487
00:21:39,970 --> 00:21:36,440
to one hour up to one hour a week every

488
00:21:41,860 --> 00:21:39,980

week of the school year in fact it's

489
00:21:44,140 --> 00:21:41,870
very rare in fact I'm not sure it

490
00:21:45,700 --> 00:21:44,150
happens at all that any of the the

491
00:21:47,530 --> 00:21:45,710
churches they they have this one hour

492
00:21:51,100 --> 00:21:47,540
period it's usually more like half an

493
00:21:52,720 --> 00:21:51,110
hour or 40 minutes but that's a regular

494
00:21:55,210 --> 00:21:52,730
feature as most of us were now in our

495
00:21:57,760 --> 00:21:55,220
school system and and then the religious

496
00:22:00,340 --> 00:21:57,770
groups actually had that that slot to

497
00:22:03,700 --> 00:22:00,350
themselves children who don't go to

498
00:22:06,730 --> 00:22:03,710
Scripture well they have to be catered

499
00:22:09,280 --> 00:22:06,740
for and it's usually a holding operation

500
00:22:10,870 --> 00:22:09,290
because there has been a long-standing I

501
00:22:13,720 --> 00:22:10,880
don't know how far back it goes but has

502
00:22:15,580 --> 00:22:13,730
been a very long-standing policy of the

503
00:22:17,260 --> 00:22:15,590
Education Department the Department of

504
00:22:21,130 --> 00:22:17,270
Education and Training as it is these

505
00:22:24,340 --> 00:22:21,140
days that students are not to be offered

506
00:22:27,130 --> 00:22:24,350
anything or any instruction that is of

507
00:22:30,280 --> 00:22:27,140
educational value in that period so the

508
00:22:32,560 --> 00:22:30,290
kids who don't go to sre can get on with

509
00:22:34,120 --> 00:22:32,570
reading or maybe what should be BD for

510
00:22:36,310 --> 00:22:34,130
the update time or whatever it is but

511
00:22:38,860 --> 00:22:36,320
they must not be given any instructional

512
00:22:42,990 --> 00:22:38,870
of everything of instructional value as

513
00:22:45,160 --> 00:22:43,000

if it were necessary to add to that it

514
00:22:46,240 --> 00:22:45,170
explicitly says in the departmental

515
00:22:47,670 --> 00:22:46,250
policy that they're not to be given

516
00:22:50,010 --> 00:22:47,680
ethics

517
00:22:51,210 --> 00:22:50,020
okay there are other things they're not

518
00:22:52,620 --> 00:22:51,220
to be given but they're not be given

519
00:22:56,400 --> 00:22:52,630
anything but i've been especially not to

520
00:22:58,440 --> 00:22:56,410
be given ethics so that looked like

521
00:23:00,660 --> 00:22:58,450
something of a barrier to the proposal

522
00:23:02,310 --> 00:23:00,670
that the Sanjaya ethics Center had in

523
00:23:05,910 --> 00:23:02,320
mind and it's not surprising I suppose

524
00:23:08,520 --> 00:23:05,920
in the light of that that they had been

525
00:23:11,280 --> 00:23:08,530
turned down on two previous occasions so

526
00:23:13,770 --> 00:23:11,290
their request to me or they're coming to

527
00:23:17,250 --> 00:23:13,780
see me first of all was really about two

528
00:23:20,190 --> 00:23:17,260
things one was what would such a program

529
00:23:22,740 --> 00:23:20,200
of ethics for kids look like in your

530
00:23:24,660 --> 00:23:22,750
view how would you go about constructing

531
00:23:26,940 --> 00:23:24,670
or what would it look like what kind of

532
00:23:28,770 --> 00:23:26,950
educational outcomes would you know how

533
00:23:30,660 --> 00:23:28,780
would it be taught what would the

534
00:23:33,780 --> 00:23:30,670
lessons look like practical things like

535
00:23:35,790 --> 00:23:33,790
that but also how do you think we should

536
00:23:37,380 --> 00:23:35,800
you involved in education in various

537
00:23:38,910 --> 00:23:37,390
ways how do you think we should go about

538
00:23:42,090 --> 00:23:38,920

actually getting our foot in the door

539
00:23:43,800 --> 00:23:42,100
and that second question actually is the

540
00:23:45,720 --> 00:23:43,810
one to ask first because if you don't

541
00:23:47,820 --> 00:23:45,730
find out how the answer address that

542
00:23:49,680 --> 00:23:47,830
question properly you no point in

543
00:23:50,940 --> 00:23:49,690
constructing all the lessons and what

544
00:23:54,000 --> 00:23:50,950
worry about the pedagogy of how you

545
00:23:55,920 --> 00:23:54,010
train teachers and so forth and I said

546
00:23:57,540 --> 00:23:55,930
well usually the way these things are

547
00:24:01,260 --> 00:23:57,550
done in education is actually through a

548
00:24:02,580 --> 00:24:01,270
pilot you have a pilot I mean it's got

549
00:24:04,200 --> 00:24:02,590
going to be something very limited you

550
00:24:06,810 --> 00:24:04,210
just have a collection of schools you

551
00:24:09,930 --> 00:24:06,820
select them and appropriately maybe you

552
00:24:11,940 --> 00:24:09,940
run the thing for a term and so you've

553
00:24:14,490 --> 00:24:11,950
got a small smaller commitment and it's

554
00:24:17,670 --> 00:24:14,500
less threatening to the system because

555
00:24:19,500 --> 00:24:17,680
it's only initially temporary it's of

556
00:24:21,120 --> 00:24:19,510
limited extent only a few schools were

557
00:24:23,730 --> 00:24:21,130
involved it's going to be subject to

558
00:24:25,650 --> 00:24:23,740
test and scrutiny which is important of

559
00:24:27,390 --> 00:24:25,660
course so you're not just coming and

560
00:24:28,740 --> 00:24:27,400
saying just open up your doors let's

561
00:24:31,020 --> 00:24:28,750
open up the floodgates and have

562
00:24:34,260 --> 00:24:31,030
something else you're saying let's take

563
00:24:37,440 --> 00:24:34,270

a disciplined approach let's devise

564
00:24:40,770 --> 00:24:37,450
something especially for this trial and

565
00:24:42,750 --> 00:24:40,780
let's test it out the government has it

566
00:24:44,610 --> 00:24:42,760
turned out although it was rather weak

567
00:24:46,740 --> 00:24:44,620
kneed i think i should say that about

568
00:24:49,230 --> 00:24:46,750
this and even the minister verity fur

569
00:24:52,590 --> 00:24:49,240
through in the end was willing to

570
00:24:54,600 --> 00:24:52,600
sanction this thing at the last eleventh

571
00:24:57,130 --> 00:24:54,610
hour about two minutes to midnight

572
00:25:02,420 --> 00:24:57,140
actually

573
00:25:05,930 --> 00:25:02,430
go-ahead for this to to to at least go

574
00:25:09,050 --> 00:25:05,940
to at the construction stage that

575
00:25:11,330 --> 00:25:09,060
construction stage evolved I was going

576
00:25:12,830 --> 00:25:11,340
to say getting advice from the

577
00:25:14,420 --> 00:25:12,840
department of education and training

578
00:25:16,520 --> 00:25:14,430
whose officers from the board of studies

579
00:25:18,530 --> 00:25:16,530
in the curriculum Directorate went

580
00:25:22,370 --> 00:25:18,540
through the materials that I constructed

581
00:25:24,530 --> 00:25:22,380
with a fine-tooth comb and they took out

582
00:25:27,110 --> 00:25:24,540
anything they thought might be in any

583
00:25:30,200 --> 00:25:27,120
way objectionable objectionable we write

584
00:25:31,820 --> 00:25:30,210
us to whom well basically true the

585
00:25:37,550 --> 00:25:31,830
religious authorities who were breathing

586
00:25:40,010 --> 00:25:37,560
down their necks the the the the church

587
00:25:42,700 --> 00:25:40,020
by tucka rious which actually is a body

588
00:25:45,460 --> 00:25:42,710

of into church body witches has

589
00:25:47,600 --> 00:25:45,470
oversight a special religious education

590
00:25:49,360 --> 00:25:47,610
was breathing down their neck George

591
00:25:51,530 --> 00:25:49,370
Pell was breathing down their neck

592
00:25:54,140 --> 00:25:51,540
Jensen was breathing down their neck so

593
00:25:55,790 --> 00:25:54,150
we actually had some of the major

594
00:25:59,480 --> 00:25:55,800
religious authorities in town the

595
00:26:01,460 --> 00:25:59,490
blowing hot on this issue so

596
00:26:03,110 --> 00:26:01,470
nevertheless these meerut materials were

597
00:26:06,770 --> 00:26:03,120
constructed and I constructed the

598
00:26:08,570 --> 00:26:06,780
pedagogy for them and we were told by

599
00:26:10,640 --> 00:26:08,580
the way just one other little detail

600
00:26:13,220 --> 00:26:10,650
that no teacher was allowed to teach

601
00:26:14,480 --> 00:26:13,230
this which looks a bit of a problem if

602
00:26:16,610 --> 00:26:14,490
you're going to implement something in

603
00:26:19,400 --> 00:26:16,620
the classroom but it turned out had to

604
00:26:20,840 --> 00:26:19,410
be parents couldn't be teachers it

605
00:26:23,180 --> 00:26:20,850
couldn't be anyone in the employ of the

606
00:26:24,920 --> 00:26:23,190
education the department of education

607
00:26:27,590 --> 00:26:24,930
and training at least not in employment

608
00:26:29,360 --> 00:26:27,600
at that time in our part time they could

609
00:26:31,460 --> 00:26:29,370
perhaps do it as other but they had to

610
00:26:34,520 --> 00:26:31,470
be parents so we had to feed take people

611
00:26:37,280 --> 00:26:34,530
who are untrained as teachers and train

612
00:26:41,270 --> 00:26:37,290
them up yeah I had two days in which to

613
00:26:42,560 --> 00:26:41,280

do this this is quite a feat you take

614
00:26:45,290 --> 00:26:42,570
people who have no background education

615
00:26:47,150 --> 00:26:45,300
many well-meaning parents often you know

616
00:26:50,210 --> 00:26:47,160
intelligent professional people but they

617
00:26:52,490 --> 00:26:50,220
had to be trained up to do their stick

618
00:26:54,710 --> 00:26:52,500
in the classroom in two days with a

619
00:26:56,810 --> 00:26:54,720
little bit of background support while

620
00:26:59,060 --> 00:26:56,820
they were doing it not much a little bit

621
00:27:03,770 --> 00:26:59,070
anyway so that was the way that things

622
00:27:05,420 --> 00:27:03,780
went and as you will know all of you or

623
00:27:06,280 --> 00:27:05,430
no I suppose most people know certainly

624
00:27:08,290 --> 00:27:06,290
that

625
00:27:10,960 --> 00:27:08,300
trial went ahead it was evaluated

626
00:27:12,220 --> 00:27:10,970
independently by the Education

627
00:27:13,930 --> 00:27:12,230
Department by getting an expert from

628
00:27:18,100 --> 00:27:13,940
South Australia and a team of people

629
00:27:19,540 --> 00:27:18,110
from their uni SI to actually come over

630
00:27:21,370 --> 00:27:19,550
and have a look at it and they looked at

631
00:27:23,740 --> 00:27:21,380
it a great deal of detail and wrote a

632
00:27:24,940 --> 00:27:23,750
lengthy report which is available on the

633
00:27:26,410 --> 00:27:24,950
department's website if you're

634
00:27:30,760 --> 00:27:26,420
interested in it you can actually have a

635
00:27:33,670 --> 00:27:30,770
look at it there and basically the the

636
00:27:40,150 --> 00:27:33,680
pilot was given the big tick thumbs up

637
00:27:42,640 --> 00:27:40,160
and that meant that the department was

638
00:27:45,340 --> 00:27:42,650

happy with it and the minister was in a

639
00:27:47,080 --> 00:27:45,350
bit of a tight corner the rock and a

640
00:27:49,410 --> 00:27:47,090
parrot will rock in a hard place but in

641
00:27:54,400 --> 00:27:49,420
the end as I say as you well know she

642
00:27:56,590 --> 00:27:54,410
eventually gave approval now that's just

643
00:27:59,380 --> 00:27:56,600
a bit of a quick thumbnail sketch of

644
00:28:00,490 --> 00:27:59,390
background for you the things I want

645
00:28:02,530 --> 00:28:00,500
that's not what I really want to talk

646
00:28:05,980 --> 00:28:02,540
about their there are other issues I

647
00:28:08,770 --> 00:28:05,990
want to talk about a couple of them let

648
00:28:11,170 --> 00:28:08,780
me just raise them for you and I'm going

649
00:28:12,460 --> 00:28:11,180
to just raise to I think second one I'm

650
00:28:14,560 --> 00:28:12,470
going to raise I think it's actually the

651
00:28:17,170 --> 00:28:14,570
more important probably more interest

652
00:28:19,930 --> 00:28:17,180
more of interest to most of you but the

653
00:28:26,320 --> 00:28:19,940
first one it seems to me is also of some

654
00:28:30,100 --> 00:28:26,330
import what would be the most important

655
00:28:32,020 --> 00:28:30,110
thing to motivate our this special

656
00:28:34,330 --> 00:28:32,030
intervention other words here you've got

657
00:28:36,400 --> 00:28:34,340
a situation where you've got the

658
00:28:38,860 --> 00:28:36,410
majority of kids in most schools but the

659
00:28:42,070 --> 00:28:38,870
minority and son going to special

660
00:28:45,070 --> 00:28:42,080
religious education once a week in that

661
00:28:47,830 --> 00:28:45,080
a lot of time half an hour 40 minutes as

662
00:28:51,970 --> 00:28:47,840
I said for the most part where the other

663
00:28:55,300 --> 00:28:51,980

kids are to be given nothing now the

664
00:28:59,110 --> 00:28:55,310
question is is that discriminatory I

665
00:29:00,880 --> 00:28:59,120
mean are the other children who decide

666
00:29:03,640 --> 00:29:00,890
or whose parents actually formally

667
00:29:06,390 --> 00:29:03,650
decide that they're not attending what's

668
00:29:09,430 --> 00:29:06,400
called scripture or sorry are those

669
00:29:12,130 --> 00:29:09,440
parents and children being discriminated

670
00:29:13,810 --> 00:29:12,140
against in some important way the

671
00:29:15,890 --> 00:29:13,820
argument from the Sun jamesy ethics

672
00:29:18,020 --> 00:29:15,900
center was that they were

673
00:29:19,940 --> 00:29:18,030
in fact the main line of argument that

674
00:29:23,470 --> 00:29:19,950
they run around in favor of this

675
00:29:26,240 --> 00:29:23,480
especially intervention was that it was

676
00:29:28,400 --> 00:29:26,250
to combat this discrimination that was

677
00:29:31,640 --> 00:29:28,410
occurring in the schools and it's a

678
00:29:34,670 --> 00:29:31,650
really really important question is is

679
00:29:37,160 --> 00:29:34,680
it discrimination and is it is it

680
00:29:40,190 --> 00:29:37,170
significantly serious so that the

681
00:29:42,230 --> 00:29:40,200
long-standing provision that's been

682
00:29:45,290 --> 00:29:42,240
there for the churches that it was built

683
00:29:49,010 --> 00:29:45,300
into the Education Act should be

684
00:29:50,930 --> 00:29:49,020
tampered with or overwritten you might

685
00:29:54,560 --> 00:29:50,940
you might see by the way that of course

686
00:29:56,840 --> 00:29:54,570
good behind all the different arguments

687
00:29:58,520 --> 00:29:56,850
mostly specious and often very very bad

688
00:30:00,950 --> 00:29:58,530

arguments by the way that were mounted

689
00:30:04,670 --> 00:30:00,960
by religious authorities against the

690
00:30:08,450 --> 00:30:04,680
trial behind them all was just it seems

691
00:30:10,490 --> 00:30:08,460
to be one worry and the way is obvious I

692
00:30:13,970 --> 00:30:10,500
think I with the arguments were just

693
00:30:17,090 --> 00:30:13,980
window dressing the worry was if you

694
00:30:20,390 --> 00:30:17,100
have a competitor in that slot where

695
00:30:23,210 --> 00:30:20,400
you've had none previously you might be

696
00:30:27,050 --> 00:30:23,220
losing bums on seats and this is a major

697
00:30:29,000 --> 00:30:27,060
recruiting ground for churches then that

698
00:30:30,560 --> 00:30:29,010
seems to me just kind of obvious and it

699
00:30:32,810 --> 00:30:30,570
was obvious enough whenever you can't

700
00:30:34,310 --> 00:30:32,820
have just looked through what all these

701
00:30:36,110 --> 00:30:34,320
try to listen through what people are

702
00:30:39,830 --> 00:30:36,120
arguing to what they were really on

703
00:30:42,110 --> 00:30:39,840
about so there you've got as it were

704
00:30:45,230 --> 00:30:42,120
when those away there you have a

705
00:30:47,420 --> 00:30:45,240
provision that's been made for important

706
00:30:49,430 --> 00:30:47,430
and powerful groups in society less

707
00:30:52,760 --> 00:30:49,440
powerful than they once were but still

708
00:30:54,620 --> 00:30:52,770
quite powerful as proved to be the case

709
00:30:58,850 --> 00:30:54,630
in their debates and the pressure

710
00:31:01,100 --> 00:30:58,860
brought brought on government and then

711
00:31:04,040 --> 00:31:01,110
you have a group of people who are now

712
00:31:05,690 --> 00:31:04,050
decide to step outside of that and again

713
00:31:08,840 --> 00:31:05,700

getting no provision is that

714
00:31:11,600 --> 00:31:08,850
discriminatory how do you how do you

715
00:31:13,100 --> 00:31:11,610
deal with this kind of this issue I mean

716
00:31:14,990 --> 00:31:13,110
it's a simple way of saying with you

717
00:31:17,210 --> 00:31:15,000
might just say well it is discriminatory

718
00:31:19,250 --> 00:31:17,220
and it should be rectified you know that

719
00:31:20,750 --> 00:31:19,260
privilege should be done away with but

720
00:31:22,550 --> 00:31:20,760
if you put yourself in the position of

721
00:31:23,690 --> 00:31:22,560
government or if you put yourself the

722
00:31:26,070 --> 00:31:23,700
position of the Education Department

723
00:31:29,130 --> 00:31:26,080
trying to manage this issue

724
00:31:31,380 --> 00:31:29,140
you can't just simply make a you know a

725
00:31:33,590 --> 00:31:31,390
quick decision like that it takes a

726
00:31:35,639 --> 00:31:33,600
great deal of thinking through the

727
00:31:37,200 --> 00:31:35,649
second the second thing which is

728
00:31:40,409 --> 00:31:37,210
actually nearer to my heart and

729
00:31:42,960 --> 00:31:40,419
interested me a great deal more was

730
00:31:45,990 --> 00:31:42,970
actually the form of instruction that's

731
00:31:47,250 --> 00:31:46,000
involved usually in what my day when I

732
00:31:50,700 --> 00:31:47,260
was a kid at school used to be called

733
00:31:53,190 --> 00:31:50,710
religious instruction and the words the

734
00:31:55,380 --> 00:31:53,200
word actually tells you something but

735
00:32:00,720 --> 00:31:55,390
special religious education is is called

736
00:32:02,669 --> 00:32:00,730
these days here there's that there's a

737
00:32:05,610 --> 00:32:02,679
form of Education involved in that a

738
00:32:09,180 --> 00:32:05,620

model of Education and actually an fact

739
00:32:12,029 --> 00:32:09,190
of ethical education in particular which

740
00:32:14,700 --> 00:32:12,039
is at loggerheads with the kind of

741
00:32:18,120 --> 00:32:14,710
approach that I took which comes out of

742
00:32:20,250 --> 00:32:18,130
philosophy so let's have a quick look at

743
00:32:22,590 --> 00:32:20,260
these two different sorts of approaches

744
00:32:27,240 --> 00:32:22,600
that I hope not to provide too much of a

745
00:32:30,180 --> 00:32:27,250
caricature of them first of all if you

746
00:32:34,320 --> 00:32:30,190
look at religious education in special

747
00:32:37,230 --> 00:32:34,330
religious education it isn't first and

748
00:32:41,070 --> 00:32:37,240
foremost and certainly not only ethical

749
00:32:42,990 --> 00:32:41,080
education is religious education but

750
00:32:46,379 --> 00:32:43,000
religious education involves ethical

751
00:32:48,120 --> 00:32:46,389
education just take some common things

752
00:32:50,310 --> 00:32:48,130
that are commonly known I just go to the

753
00:32:54,419 --> 00:32:50,320
Christian faith switch of the manger

754
00:32:57,450 --> 00:32:54,429
ones represented in our schools if you

755
00:32:59,639 --> 00:32:57,460
talk about the Ten Commandments there

756
00:33:01,740 --> 00:32:59,649
are moral code if you talk about the

757
00:33:05,039 --> 00:33:01,750
golden rule you know of the New

758
00:33:09,450 --> 00:33:05,049
Testament that's a moral preceptor or

759
00:33:12,509 --> 00:33:09,460
moral rule if you talk about moralizing

760
00:33:16,980 --> 00:33:12,519
well for example Bible stories of say

761
00:33:19,409 --> 00:33:16,990
the Good Samaritan is a moral tale and

762
00:33:21,149 --> 00:33:19,419
when you tell such a child you mark

763
00:33:24,299 --> 00:33:21,159

what's caught you you're doing what's

764
00:33:26,159 --> 00:33:24,309
called moralizing so what I'm saying is

765
00:33:28,080 --> 00:33:26,169
that in fact when you kids are engaged

766
00:33:30,600 --> 00:33:28,090
in special religious education they're

767
00:33:33,330 --> 00:33:30,610
actually getting by by moral education

768
00:33:36,510 --> 00:33:33,340
it comes with religion there comes with

769
00:33:37,919 --> 00:33:36,520
the field the question is however not

770
00:33:40,700 --> 00:33:37,929
that they're getting that but

771
00:33:42,899 --> 00:33:40,710
what form is it being delivered I mean

772
00:33:44,759 --> 00:33:42,909
technically we might think what's the

773
00:33:47,430 --> 00:33:44,769
pedagogy or what's that what was the

774
00:33:50,600 --> 00:33:47,440
teaching mode that's involved in this

775
00:33:53,279 --> 00:33:50,610
will usually of course this instruction

776
00:33:56,940 --> 00:33:53,289
okay so first of all or it simply

777
00:34:01,470 --> 00:33:56,950
moralizing so if you tell a a moral

778
00:34:03,749 --> 00:34:01,480
story which has as it were a conclusion

779
00:34:07,760 --> 00:34:03,759
to be drawn which is built into the into

780
00:34:11,700 --> 00:34:07,770
the story itself then that's moralizing

781
00:34:14,579 --> 00:34:11,710
i'm quite a fan of Aesop's fables but i

782
00:34:16,619 --> 00:34:14,589
never used them in my work in classrooms

783
00:34:18,659 --> 00:34:16,629
because they're actually morally

784
00:34:20,430 --> 00:34:18,669
directed their you meant to draw the

785
00:34:21,569 --> 00:34:20,440
moral that if the stories constructors

786
00:34:23,549 --> 00:34:21,579
that you draw the moment often in

787
00:34:27,240 --> 00:34:23,559
Aesop's fables the bold is explicitly

788
00:34:30,240 --> 00:34:27,250

drawn at the end okay that's so

789
00:34:32,790 --> 00:34:30,250
moralizing and instruction in an ethical

790
00:34:37,950 --> 00:34:32,800
code is a certain way of trying to

791
00:34:39,869 --> 00:34:37,960
deliver a education a completely

792
00:34:42,899 --> 00:34:39,879
different tradition in this which is

793
00:34:44,700 --> 00:34:42,909
also venerable is what I would call the

794
00:34:47,760 --> 00:34:44,710
philosophical tradition particularly the

795
00:34:49,680 --> 00:34:47,770
one famously in the history of western

796
00:34:51,569 --> 00:34:49,690
philosophy associated with Socrates the

797
00:34:56,369 --> 00:34:51,579
Socratic tradition the Socratic

798
00:34:58,680 --> 00:34:56,379
tradition is one of moral inquiry now a

799
00:35:02,160 --> 00:34:58,690
moral inquiry whatever else it involves

800
00:35:05,210 --> 00:35:02,170
is isn't the teacher actually imparting

801
00:35:08,250 --> 00:35:05,220
a class set of codes to the student or

802
00:35:10,859 --> 00:35:08,260
teaching them a moral lesson it's

803
00:35:13,170 --> 00:35:10,869
bringing them to think about moral

804
00:35:16,490 --> 00:35:13,180
issues or moral problems a moral

805
00:35:20,970 --> 00:35:16,500
concepts and ideas and to be able to

806
00:35:24,480 --> 00:35:20,980
evaluate them to have clear notions of

807
00:35:27,960 --> 00:35:24,490
them to be able to to work with them and

808
00:35:29,880 --> 00:35:27,970
to be able to adjudged them and in

809
00:35:31,950 --> 00:35:29,890
simple ways of course with children

810
00:35:35,069 --> 00:35:31,960
particularly by the way the children the

811
00:35:36,780 --> 00:35:35,079
trial we use five and six okay so we

812
00:35:38,640 --> 00:35:36,790
talked at eleven and twelve year olds

813
00:35:40,710 --> 00:35:38,650

we're not talking about them actually

814
00:35:42,900 --> 00:35:40,720
going into the annals of philosophy and

815
00:35:46,280 --> 00:35:42,910
trying to discover what a manual can't

816
00:35:48,320 --> 00:35:46,290
said about the categorical imperative

817
00:35:51,050 --> 00:35:48,330
but on the other hand kids are trying to

818
00:35:53,360 --> 00:35:51,060
think about the importance of rules and

819
00:35:55,900 --> 00:35:53,370
where rules for example might come into

820
00:35:58,190 --> 00:35:55,910
conflict and what you do about that or

821
00:36:01,400 --> 00:35:58,200
about the difference between thinking

822
00:36:02,780 --> 00:36:01,410
about intentions and consequences you

823
00:36:04,280 --> 00:36:02,790
know how important these two different

824
00:36:06,320 --> 00:36:04,290
kinds of things are in different

825
00:36:09,770 --> 00:36:06,330
contexts of their lives where they can

826
00:36:11,690 --> 00:36:09,780
appreciate the importance of these and

827
00:36:15,320 --> 00:36:11,700
the difficulties that they sometimes in

828
00:36:17,060 --> 00:36:15,330
tile and for them to do this together to

829
00:36:19,520 --> 00:36:17,070
in order to think things through for

830
00:36:23,330 --> 00:36:19,530
example to explore their differences of

831
00:36:26,420 --> 00:36:23,340
opinion and understanding that kind of

832
00:36:29,300 --> 00:36:26,430
approach is very very different from the

833
00:36:30,680 --> 00:36:29,310
approach that says well we already have

834
00:36:32,240 --> 00:36:30,690
the moral knowledge and it's just a

835
00:36:36,400 --> 00:36:32,250
matter of imparting it to you and will

836
00:36:39,710 --> 00:36:36,410
impart it to you by instruction or by

837
00:36:42,950 --> 00:36:39,720
moralizing now that's quick and rough

838
00:36:44,990 --> 00:36:42,960

but it seemed to me quite evident in

839
00:36:47,540 --> 00:36:45,000
what I could see of what was going on in

840
00:36:49,490 --> 00:36:47,550
schools in special religious education

841
00:36:51,980 --> 00:36:49,500
and in the presumptions that were

842
00:36:55,100 --> 00:36:51,990
brought to the debate in the public

843
00:36:57,710 --> 00:36:55,110
arena that there were two very very

844
00:37:00,530 --> 00:36:57,720
different traditions here at loggerheads

845
00:37:02,780 --> 00:37:00,540
with one another okay the tradition if I

846
00:37:06,920 --> 00:37:02,790
can call the moral instruction and the

847
00:37:09,020 --> 00:37:06,930
tradition of moral inquiry and I think

848
00:37:11,060 --> 00:37:09,030
in the end this is a vitally important

849
00:37:13,630 --> 00:37:11,070
issue because in fact these are just

850
00:37:16,520 --> 00:37:13,640
about special religious education any

851
00:37:19,010 --> 00:37:16,530
compliments that might be put up against

852
00:37:21,350 --> 00:37:19,020
it for kids who don't go to Scripture it

853
00:37:23,510 --> 00:37:21,360
actually has to do with how we work

854
00:37:26,390 --> 00:37:23,520
through problems and issues of a moral

855
00:37:30,110 --> 00:37:26,400
nature in society and indeed more

856
00:37:33,020 --> 00:37:30,120
broadly how we come to knowledge and

857
00:37:34,550 --> 00:37:33,030
understanding in general and whether

858
00:37:36,380 --> 00:37:34,560
these things can be given to us by

859
00:37:38,780 --> 00:37:36,390
authority and whether they are to be

860
00:37:40,520 --> 00:37:38,790
handed down on a platter or whether we

861
00:37:42,140 --> 00:37:40,530
need to think these things through for

862
00:37:46,670 --> 00:37:42,150
ourselves and whether we're going to be

863
00:37:50,090 --> 00:37:46,680

given the wherewithal to do so so that's

864
00:37:54,080 --> 00:37:50,100
a really big educational and social

865
00:37:58,579 --> 00:37:54,090
issue and it seems to me that in the in

866
00:38:00,440 --> 00:37:58,589
the discussions of the pilot

867
00:38:02,359 --> 00:38:00,450
we had last year particularly the media

868
00:38:05,269 --> 00:38:02,369
but that issue was there but it was

869
00:38:12,319 --> 00:38:05,279
never really clearly identified and

870
00:38:16,249 --> 00:38:12,329
articulated and it needs to be so okay

871
00:38:18,229 --> 00:38:16,259
I've got about two minutes so at the

872
00:38:21,829 --> 00:38:18,239
moment just to go back to the history

873
00:38:25,190 --> 00:38:21,839
page we have this kind of fledgling

874
00:38:29,420 --> 00:38:25,200
effort in schools there is now a body

875
00:38:32,989 --> 00:38:29,430
called primary ethics which has been set

876
00:38:35,299 --> 00:38:32,999
up to develop that program further I

877
00:38:37,459 --> 00:38:35,309
extended the pilot program which was

878
00:38:39,440 --> 00:38:37,469
written just for one term as a trial to

879
00:38:42,650 --> 00:38:39,450
two terms and that's currently being

880
00:38:43,910 --> 00:38:42,660
used in schools this year I don't know

881
00:38:46,339 --> 00:38:43,920
really what's happening in the second

882
00:38:49,670 --> 00:38:46,349
half of the year but the whole thing it

883
00:38:53,450 --> 00:38:49,680
seems to me is still open to further

884
00:38:56,719 --> 00:38:53,460
debate and political maneuvering by the

885
00:38:58,940 --> 00:38:56,729
current government and i think that

886
00:39:01,759 --> 00:38:58,950
there's probably room for a great deal

887
00:39:04,880 --> 00:39:01,769
more discussion to come on this matter

888
00:39:08,180 --> 00:39:04,890

and insofar as that's the case i would

889
00:39:10,160 --> 00:39:08,190
really like to see their these issues

890
00:39:12,559 --> 00:39:10,170
that I've rat two issues I've raised

891
00:39:13,999 --> 00:39:12,569
tonight actually have some prominence in

892
00:39:16,279 --> 00:39:14,009
the discussion and particularly the

893
00:39:19,999 --> 00:39:16,289
second one because it seems to me that

894
00:39:23,690 --> 00:39:20,009
that issue is so really important to all

895
00:39:26,829 --> 00:39:23,700
of us about as I would say in the large

896
00:39:31,519 --> 00:39:26,839
scheme of things what is knowledge and

897
00:39:34,400 --> 00:39:31,529
how can we properly come by it and if we

898
00:39:46,550 --> 00:39:34,410
don't address that issue in education we

899
00:39:51,960 --> 00:39:49,200
are you sick of pseudoscience of the

900
00:39:54,060 --> 00:39:51,970
paranormal dominating popular media fed

901
00:39:56,880 --> 00:39:54,070
up with being surrounded by spiritualism

902
00:39:59,820 --> 00:39:56,890
and relentless religiousness pneus yeah

903
00:40:02,250 --> 00:39:59,830
me too or you can do something about it

904
00:40:04,890 --> 00:40:02,260
help support the brand near flim-flam

905
00:40:06,540 --> 00:40:04,900
comic a weekly online comic strip that

906
00:40:09,660 --> 00:40:06,550
promotes critical thinking through a

907
00:40:11,520 --> 00:40:09,670
quirky cartoons and hilarious jokes the

908
00:40:13,980 --> 00:40:11,530
more skeptical media we share with the

909
00:40:16,170 --> 00:40:13,990
world the better it's none for profit so

910
00:40:19,820 --> 00:40:16,180
we need your help go to flim-flam

911
00:40:24,420 --> 00:40:19,830
possible comdata you that's flim-flam

912
00:40:27,000 --> 00:40:24,430
poz IB le Comte you you can contribute

913
00:40:34,970 --> 00:40:27,010

there let's spread critical thinking in

914
00:40:38,510 --> 00:40:36,950
Australian skeptics have always

915
00:40:41,060 --> 00:40:38,520
maintained that groups like the

916
00:40:45,020 --> 00:40:41,070
Australian vaccination network are not

917
00:40:48,380 --> 00:40:45,030
in fact pro-choice but are dedicated to

918
00:40:50,150 --> 00:40:48,390
the anti-vaccination stand while this is

919
00:40:52,160 --> 00:40:50,160
still the official position of the

920
00:40:54,800 --> 00:40:52,170
Australian vaccination Network other

921
00:40:58,340 --> 00:40:54,810
anti-vaccination campaigners aren't so

922
00:41:00,200 --> 00:40:58,350
shy Vera shramana and Bronwyn Hancock

923
00:41:03,170 --> 00:41:00,210
were recently interviewed on the 60

924
00:41:05,870 --> 00:41:03,180
minutes program here in Australia there

925
00:41:08,900 --> 00:41:05,880
a straightener by the way one the 1997

926
00:41:10,130 --> 00:41:08,910
Australian skeptics bent spoon award for

927
00:41:12,500 --> 00:41:10,140
the most preposterous piece of

928
00:41:16,160 --> 00:41:12,510
paranormal or pseudo-scientific piffle

929
00:41:19,340 --> 00:41:16,170
in that year in this interview of Irish

930
00:41:23,450 --> 00:41:19,350
writer and Bronwyn Hancock leave nothing

931
00:41:27,770 --> 00:41:23,460
to the imagination they make it clear

932
00:41:30,320 --> 00:41:27,780
beyond any doubt what so ever that they

933
00:41:33,700 --> 00:41:30,330
are anti-vaccination that vaccinations

934
00:41:36,280 --> 00:41:33,710
are only harmful and diseases are good

935
00:41:40,670 --> 00:41:36,290
you don't have to take my word for it

936
00:41:42,800 --> 00:41:40,680
here is the audio based on my extensive

937
00:41:45,740 --> 00:41:42,810
research of Orthodox medical literature

938
00:41:47,690 --> 00:41:45,750

I am totally against any vaccinations

939
00:41:51,320 --> 00:41:47,700
having anything good to say about back

940
00:41:54,490 --> 00:41:51,330
saying no because the immunity is

941
00:41:57,830 --> 00:41:54,500
achieved by going through the natural

942
00:42:01,870 --> 00:41:57,840
infectious diseases of childhood such as

943
00:42:05,000 --> 00:42:01,880
measles whooping cough mumps rubella so

944
00:42:09,170 --> 00:42:05,010
vaccines are dangerous and diseases are

945
00:42:11,480 --> 00:42:09,180
good exactly you right here that the

946
00:42:14,390 --> 00:42:11,490
body only catches a disease if it needs

947
00:42:16,460 --> 00:42:14,400
to so all those polio and measles

948
00:42:18,590 --> 00:42:16,470
epidemics problem the kids their bodies

949
00:42:23,540 --> 00:42:18,600
wanted to catch those diseases did they

950
00:42:25,099 --> 00:42:23,550
there are benefits of diseases now I say

951
00:42:28,040 --> 00:42:25,109
that with qualification because

952
00:42:29,960 --> 00:42:28,050
obviously diseases have to be well

953
00:42:32,510 --> 00:42:29,970
managed and going through a disease is

954
00:42:35,060 --> 00:42:32,520
like us getting exercise this is one of

955
00:42:37,430 --> 00:42:35,070
the reasons why it's good to get Rebello

956
00:42:40,010 --> 00:42:37,440
as soon as possible so that you have in

957
00:42:41,720 --> 00:42:40,020
the energy too much and what about the

958
00:42:43,730 --> 00:42:41,730
risk of rubella to pregnant women who

959
00:42:45,590 --> 00:42:43,740
can have babies suffering terrible birth

960
00:42:47,930 --> 00:42:45,600
defect don't answer things that you

961
00:42:50,720 --> 00:42:47,940
don't know enough

962
00:42:52,610 --> 00:42:50,730
about okay just don't answer them you

963
00:42:56,000 --> 00:42:52,620

were drowning so let's call spade a

964
00:42:58,010 --> 00:42:56,010
spade I see she was drowning yet why

965
00:42:59,900 --> 00:42:58,020
would why would she be drowning because

966
00:43:02,450 --> 00:42:59,910
she hasn't got the extent of knowledge

967
00:43:03,890 --> 00:43:02,460
that I have I'll share some of the

968
00:43:05,960 --> 00:43:03,900
estate of not if she hasn't got the

969
00:43:07,340 --> 00:43:05,970
extensive knowledge why on earth is she

970
00:43:09,170 --> 00:43:07,350
writing these articles on the way

971
00:43:11,240 --> 00:43:09,180
they'll have a point there yes that's

972
00:43:13,460 --> 00:43:11,250
right maybe you have a point today okay

973
00:43:15,410 --> 00:43:13,470
so just for clarity you are not a

974
00:43:19,280 --> 00:43:15,420
medical doctor I'm not a medical doctor

975
00:43:21,680 --> 00:43:19,290
no but I am a doctor of natural sciences

976
00:43:24,590 --> 00:43:21,690
am I right in thinking that infect your

977
00:43:27,470 --> 00:43:24,600
expertise is in studying microfossils

978
00:43:30,050 --> 00:43:27,480
little fossils my expertise is in many

979
00:43:32,420 --> 00:43:30,060
areas one of them was microscopic my

980
00:43:34,850 --> 00:43:32,430
fossils but actually just for the record

981
00:43:37,430 --> 00:43:34,860
you have no formal medical training I

982
00:43:40,340 --> 00:43:37,440
wouldn't say that because I did a course

983
00:43:42,350 --> 00:43:40,350
of nursing when I was young but do you

984
00:43:44,570 --> 00:43:42,360
believe you know more than most doctors

985
00:43:46,940 --> 00:43:44,580
yes I believe I know more than most

986
00:43:49,430 --> 00:43:46,950
doctors vaccination of any kind of

987
00:43:52,880 --> 00:43:49,440
causes autism so only children who are

988
00:43:55,160 --> 00:43:52,890

vaccinated get autism that's right yes

989
00:43:58,370 --> 00:43:55,170
it's a heck of a story it is a heck of a

990
00:44:00,410 --> 00:43:58,380
story yes and how do you know they died

991
00:44:01,790 --> 00:44:00,420
from whooping cough these children went

992
00:44:03,710 --> 00:44:01,800
to hospital and the doctors there

993
00:44:05,570 --> 00:44:03,720
diagnose them with whooping cough I

994
00:44:08,210 --> 00:44:05,580
don't think there's any doubt if the

995
00:44:10,310 --> 00:44:08,220
child was given hepatitis B adverse it

996
00:44:13,370 --> 00:44:10,320
certainly suppressed in its immune

997
00:44:15,380 --> 00:44:13,380
system and made it very susceptible to

998
00:44:17,570 --> 00:44:15,390
catching whooping cough from people

999
00:44:19,640 --> 00:44:17,580
around their days because their parents

1000
00:44:23,180 --> 00:44:19,650
immunize them at birth against hepatitis

1001
00:44:25,880 --> 00:44:23,190
B that's right absolutely because

1002
00:44:27,320 --> 00:44:25,890
vaccines are the single any vaccines are

1003
00:44:30,140 --> 00:44:27,330
the single biggest cause of infant

1004
00:44:32,480 --> 00:44:30,150
deaths those mothers have no knowledge

1005
00:44:34,310 --> 00:44:32,490
to judge the case they only listen to

1006
00:44:36,380 --> 00:44:34,320
what doctors tell them and of course the

1007
00:44:39,650 --> 00:44:36,390
doctors are only too happy to start

1008
00:44:42,800 --> 00:44:39,660
blaming the disease instead of their

1009
00:44:44,930 --> 00:44:42,810
vaccines can I put it to you both that

1010
00:44:46,490 --> 00:44:44,940
maybe not from malicious intent that the

1011
00:44:50,150 --> 00:44:46,500
two of you are involved in a conspiracy

1012
00:44:52,370 --> 00:44:50,160
to cover up the plain fact that infants

1013
00:44:54,530 --> 00:44:52,380

die an agonizing death from whooping

1014
00:44:56,360 --> 00:44:54,540
cough that you absolutely not and I am

1015
00:44:59,870 --> 00:44:56,370
walking out of this because this is a

1016
00:45:00,600 --> 00:44:59,880
farce but how about you put me in touch

1017
00:45:02,580 --> 00:45:00,610
with those

1018
00:45:04,440 --> 00:45:02,590
parents I will ask them relevant

1019
00:45:06,210 --> 00:45:04,450
questions to establish the whole medical

1020
00:45:08,160 --> 00:45:06,220
history of these children and then we

1021
00:45:09,990 --> 00:45:08,170
shall see what they really died off and

1022
00:45:12,540 --> 00:45:10,000
then I don't accept any accusations from

1023
00:45:17,810 --> 00:45:12,550
you or anybody else are we doing

1024
00:45:25,140 --> 00:45:21,270
if I was to say anything good about Vera

1025
00:45:28,170 --> 00:45:25,150
schreibman and Bronwyn Hancock is well

1026
00:45:30,120 --> 00:45:28,180
at least they are honest about it at

1027
00:45:32,490 --> 00:45:30,130
least I have laid their cards on the

1028
00:45:35,760 --> 00:45:32,500
table to let us know and like other

1029
00:45:38,880 --> 00:45:35,770
groups who pretend that they are

1030
00:45:41,580 --> 00:45:38,890
pro-choice well done 60 minutes for

1031
00:45:50,089 --> 00:45:41,590
giving these people enough rope to hang

1032
00:45:54,749 --> 00:45:52,920
hey guys this is jay from the skeptics

1033
00:45:57,539 --> 00:45:54,759
guide to the universe er well hold on

1034
00:45:59,309 --> 00:45:57,549
whoa everybody knows I'm the only reason

1035
00:46:00,480 --> 00:45:59,319
to listen to the freakshow right I mean

1036
00:46:07,230 --> 00:46:00,490
if it was up to me the show would start

1037
00:46:09,150 --> 00:46:07,240
with this yeah boy well Rebecca would

1038
00:46:10,859 --> 00:46:09,160

hate that probably but I mean I'd rock

1039
00:46:11,880 --> 00:46:10,869
that listen to our show and you can

1040
00:46:13,559 --> 00:46:11,890
learn about cool stuff like a

1041
00:46:15,329 --> 00:46:13,569
technological singularity which is

1042
00:46:16,829 --> 00:46:15,339
someday when technology progresses so

1043
00:46:18,210 --> 00:46:16,839
fast that it would make the Industrial

1044
00:46:21,269 --> 00:46:18,220
Revolution look like a kid science

1045
00:46:38,750 --> 00:46:21,279
project anyway come check us out at WWDC

1046
00:46:38,760 --> 00:46:47,029
bye

1047
00:46:51,390 --> 00:46:49,890
ladies and gentlemen TV fans our world

1048
00:46:53,849 --> 00:46:51,400
over I have on the phone a man who's

1049
00:46:55,979 --> 00:46:53,859
going to be in Australia for supernova

1050
00:46:57,870 --> 00:46:55,989
in June at the Dome in Sydney is to

1051
00:46:59,549 --> 00:46:57,880
build a lil as I like to refer to him

1052
00:47:01,680 --> 00:46:59,559
and many people do a further in this

1053
00:47:04,199 --> 00:47:01,690
that would be a major Roger Healey

1054
00:47:06,329 --> 00:47:04,209
welcome thank you what I'm gonna

1055
00:47:07,920 --> 00:47:06,339
identificar like that thank you oh look

1056
00:47:09,599 --> 00:47:07,930
and of course you haven't just done that

1057
00:47:11,400 --> 00:47:09,609
throughout your life I'd like to ask you

1058
00:47:14,579 --> 00:47:11,410
a lot of questions like heard you were

1059
00:47:16,650 --> 00:47:14,589
in Korea fighting in an artillery unit

1060
00:47:18,420 --> 00:47:16,660
in you as in your youth and then you got

1061
00:47:19,949 --> 00:47:18,430
into the entertainment unit that sounds

1062
00:47:22,499 --> 00:47:19,959
like a great wrought how did you do that

1063
00:47:24,239 --> 00:47:22,509

bill hi there do remember way back that

1064
00:47:26,160 --> 00:47:24,249
was nineteen fifty i worked at the best

1065
00:47:28,019 --> 00:47:26,170
hospitals it's okay because i was in the

1066
00:47:31,349 --> 00:47:28,029
world during get 50 the funny thing is

1067
00:47:32,910 --> 00:47:31,359
is with a pretty good job position and

1068
00:47:35,309 --> 00:47:32,920
then i was in the army and they were

1069
00:47:37,829 --> 00:47:35,319
going to send me over to Japan and I

1070
00:47:39,900 --> 00:47:37,839
with a special super school and I forget

1071
00:47:42,029 --> 00:47:39,910
i'll be in Japan they needed 20 thousand

1072
00:47:45,029 --> 00:47:42,039
guys and artillery and they sent me over

1073
00:47:46,890 --> 00:47:45,039
the korean artillery I'd oh my gosh what

1074
00:47:48,689 --> 00:47:46,900
is this and I don't know what I was

1075
00:47:51,150 --> 00:47:48,699
doing but two can t know before your

1076
00:47:52,920 --> 00:47:51,160
time with a famous Gordian player he

1077
00:47:55,319 --> 00:47:52,930
came to town I said him with them and he

1078
00:47:57,359 --> 00:47:55,329
took me back to Seoul got in the truck

1079
00:47:59,279 --> 00:47:57,369
and went closes it the lines I've ever

1080
00:48:01,890 --> 00:47:59,289
been there if we entertain a whole town

1081
00:48:04,079 --> 00:48:01,900
was gone up but it was a great great two

1082
00:48:06,150 --> 00:48:04,089
years of my life the best two years ever

1083
00:48:07,920 --> 00:48:06,160
of my life is it strange that will you

1084
00:48:09,660 --> 00:48:07,930
be you'll be traveling throughout your

1085
00:48:11,130 --> 00:48:09,670
life and someone will recognize you in a

1086
00:48:12,689 --> 00:48:11,140
really weird out-of-the-way place and

1087
00:48:15,689 --> 00:48:12,699
you just got no idea how they know you

1088
00:48:18,029 --> 00:48:15,699

but I love it I love it no I mean here

1089
00:48:20,219 --> 00:48:18,039
everywhere I mean I had the nice but I

1090
00:48:22,289 --> 00:48:20,229
mean the people tell you not be like 84

1091
00:48:24,749 --> 00:48:22,299
to half hour then people come up and

1092
00:48:26,939 --> 00:48:24,759
tell you that you're great i mean it

1093
00:48:29,819 --> 00:48:26,949
just all these autograph things we go to

1094
00:48:31,949 --> 00:48:29,829
it just it's just unbelievable and i'm

1095
00:48:33,779 --> 00:48:31,959
going over there and i dying to get that

1096
00:48:35,969 --> 00:48:33,789
can't wait to go to Australia I mean oh

1097
00:48:38,279 --> 00:48:35,979
man this is the most exciting time I

1098
00:48:39,989 --> 00:48:38,289
might I really mean it and now I know

1099
00:48:42,689 --> 00:48:39,999
Larry Hagman and barbara eden coming

1100
00:48:44,789 --> 00:48:42,699
with you yeah yeah there she wrote a

1101
00:48:46,469 --> 00:48:44,799
book I don't she had a two things about

1102
00:48:48,150 --> 00:48:46,479
Larry tell you about his early life I

1103
00:48:50,039 --> 00:48:48,160
think he might have been upset because

1104
00:48:53,160 --> 00:48:50,049
she said that he was quite upset about

1105
00:48:54,779 --> 00:48:53,170
that but but he at the beginning he

1106
00:48:56,579 --> 00:48:54,789
might have a few problems without Larry

1107
00:48:56,950 --> 00:48:56,589
that when their dinner show because he

1108
00:48:58,900 --> 00:48:56,960
was there

1109
00:49:01,839 --> 00:48:58,910
to create a director and he had this

1110
00:49:04,630 --> 00:49:01,849
energy guy was just absolutely brilliant

1111
00:49:07,300 --> 00:49:04,640
but uh it was just looking good thank

1112
00:49:08,950 --> 00:49:07,310
God for him as a kid growing up I you

1113
00:49:10,450 --> 00:49:08,960

know there was a anthony tony nelson

1114
00:49:11,980 --> 00:49:10,460
that was larry hagman he had the genie

1115
00:49:14,109 --> 00:49:11,990
had the problems he had things going on

1116
00:49:16,420 --> 00:49:14,119
all the time but Roger who was an Army

1117
00:49:18,970 --> 00:49:16,430
Major by the uniform would turn up in

1118
00:49:20,500 --> 00:49:18,980
the fantastic poor you no one knows that

1119
00:49:21,849 --> 00:49:20,510
by the way that yeah look that's the

1120
00:49:23,589 --> 00:49:21,859
thing and although they didn't actually

1121
00:49:25,450 --> 00:49:23,599
have I met army majors in the NASA

1122
00:49:27,190 --> 00:49:25,460
program until the early 70s but we don't

1123
00:49:28,960 --> 00:49:27,200
care about that bill it's fiction it's

1124
00:49:30,640 --> 00:49:28,970
great and you would turn up in your

1125
00:49:32,320 --> 00:49:30,650
convertible you'd have a beautiful

1126
00:49:33,670 --> 00:49:32,330
blonde with you you'd have a cocktail in

1127
00:49:34,900 --> 00:49:33,680
one hand because apparently you could

1128
00:49:38,230 --> 00:49:34,910
drink and drive at that time in

1129
00:49:39,670 --> 00:49:38,240
California and oh flock and smoke and

1130
00:49:41,530 --> 00:49:39,680
that's right people would smoke on

1131
00:49:43,329 --> 00:49:41,540
Jeannie and you'd turn up and you'd be

1132
00:49:44,680 --> 00:49:43,339
going off to some party and Tony could

1133
00:49:47,170 --> 00:49:44,690
never go because there was some accident

1134
00:49:48,640 --> 00:49:47,180
he was it was dressed as a as a as a

1135
00:49:50,079 --> 00:49:48,650
Kalahari Bushmen or something and II

1136
00:49:52,060 --> 00:49:50,089
couldn't go and you went off and had the

1137
00:49:53,620 --> 00:49:52,070
great life and you were the guy I liked

1138
00:49:55,839 --> 00:49:53,630

in that show cuz you are always having a

1139
00:49:57,220 --> 00:49:55,849
good time well that was really me yeah i

1140
00:49:59,650 --> 00:49:57,230
thought we're doing a real picture

1141
00:50:01,839 --> 00:49:59,660
purple and pink Rosby i was doing bible

1142
00:50:03,910 --> 00:50:01,849
in fact was the greatest moments of my

1143
00:50:05,770 --> 00:50:03,920
life when I was right to Steve Allen he

1144
00:50:08,530 --> 00:50:05,780
would all have his piece big-time

1145
00:50:10,540 --> 00:50:08,540
comedians at his party and Jack Benny I

1146
00:50:15,970 --> 00:50:10,550
mean a powerful talked in and looked at

1147
00:50:18,520 --> 00:50:15,980
me said are you doing me yes God and I

1148
00:50:20,260 --> 00:50:18,530
was very powerful and Bing Crosby got oh

1149
00:50:22,839 --> 00:50:20,270
so that's it there's one question about

1150
00:50:25,329 --> 00:50:22,849
are the I Dream of Jeannie set now I've

1151
00:50:27,190 --> 00:50:25,339
got a photo of the inside of barber

1152
00:50:28,839 --> 00:50:27,200
edens bottle there the set that was the

1153
00:50:30,670 --> 00:50:28,849
inside of her genie bottle and I've

1154
00:50:32,530 --> 00:50:30,680
looked at it and it looked like it might

1155
00:50:34,359 --> 00:50:32,540
not have smelt that great what did the

1156
00:50:36,520 --> 00:50:34,369
inside of Barbara Eden's genie bottle

1157
00:50:39,940 --> 00:50:36,530
smell like on the set I always gotta

1158
00:50:41,770 --> 00:50:39,950
light a match because it looked it

1159
00:50:43,660 --> 00:50:41,780
looked a bit moldy it look like we're

1160
00:50:45,010 --> 00:50:43,670
better you know Adam Western Robin used

1161
00:50:46,750 --> 00:50:45,020
to go when they went down the bat-pole

1162
00:50:53,349 --> 00:50:46,760
and look like an area that didn't get

1163
00:50:56,140 --> 00:50:53,359

swept out a lot you know yeah and you

1164
00:50:59,500 --> 00:50:56,150
you were right I your homework look

1165
00:51:01,390 --> 00:50:59,510
amazing and look like Larry Hagman

1166
00:51:02,859 --> 00:51:01,400
you're a damn good-looking tart guy at

1167
00:51:04,599 --> 00:51:02,869
the time did you ever do any modeling or

1168
00:51:05,950 --> 00:51:04,609
stuff I mean they you need to stand up

1169
00:51:07,540 --> 00:51:05,960
in the comedy but like you're a

1170
00:51:10,180 --> 00:51:07,550
good-looking guy you and Larry Hagman

1171
00:51:11,440 --> 00:51:10,190
could've done modeling work as well

1172
00:51:13,480 --> 00:51:11,450
I don't know about that mean Larry

1173
00:51:14,830 --> 00:51:13,490
versus you know I don't know if we could

1174
00:51:17,200 --> 00:51:14,840
have been done bother kind of thought of

1175
00:51:18,940 --> 00:51:17,210
myself as that but that's a in high

1176
00:51:22,270 --> 00:51:18,950
school my hair was boarded when was

1177
00:51:23,890 --> 00:51:22,280
likely to recede we used to pencil are

1178
00:51:25,930 --> 00:51:23,900
here to take nine hours Larry and I to

1179
00:51:27,880 --> 00:51:25,940
put there I still have one hair left on

1180
00:51:31,480 --> 00:51:27,890
now you know I'm doing a show called my

1181
00:51:33,520 --> 00:51:31,490
three hairs I where's your book bill Wiz

1182
00:51:35,380 --> 00:51:33,530
you book well you know I would never do

1183
00:51:37,360 --> 00:51:35,390
partners fighting one I just talked to

1184
00:51:38,920 --> 00:51:37,370
my son he's doing a film in taos great

1185
00:51:42,820 --> 00:51:38,930
time here so great he's gonna be with me

1186
00:51:45,010 --> 00:51:42,830
I an outdoor turkey but it can't I would

1187
00:51:47,050 --> 00:51:45,020
never hurt anybody and if you can't just

1188
00:51:48,490 --> 00:51:47,060

like Barbara I oh she's coming up really

1189
00:51:50,500 --> 00:51:48,500
all these things that she's going to

1190
00:51:53,410 --> 00:51:50,510
work with them and all these things I

1191
00:51:55,990 --> 00:51:53,420
would never ever ever think and I got

1192
00:51:57,640 --> 00:51:56,000
some stories that are just unbelievable

1193
00:52:00,940 --> 00:51:57,650
but I wouldn't do it and it might get

1194
00:52:02,320 --> 00:52:00,950
retreat it I mean I would I'm gonna

1195
00:52:03,370 --> 00:52:02,330
catch up with you it's super nova

1196
00:52:05,020 --> 00:52:03,380
definitely we're gonna have a bit more

1197
00:52:06,070 --> 00:52:05,030
of an intense chat there when you're in

1198
00:52:07,660 --> 00:52:06,080
sydney at the dome i'll be looking

1199
00:52:10,120 --> 00:52:07,670
forward to that but what do you think

1200
00:52:11,590 --> 00:52:10,130
was the strangest episode of i dream of

1201
00:52:13,540 --> 00:52:11,600
jeannie that you did because there was

1202
00:52:15,160 --> 00:52:13,550
some unusual slapstick blah i'm

1203
00:52:16,600 --> 00:52:15,170
particularly the last season there was

1204
00:52:18,430 --> 00:52:16,610
some really wacky stuff going on is

1205
00:52:21,190 --> 00:52:18,440
there one where you were doing it you

1206
00:52:23,140 --> 00:52:21,200
thought wow this is really odd well you

1207
00:52:25,420 --> 00:52:23,150
know i like the thing is I never done

1208
00:52:27,580 --> 00:52:25,430
anything before but after what I like

1209
00:52:29,740 --> 00:52:27,590
when I didn't note that there was a

1210
00:52:31,540 --> 00:52:29,750
genie and my favorite scenes ever were

1211
00:52:33,580 --> 00:52:31,550
on the professor on the boat she

1212
00:52:35,680 --> 00:52:33,590
disappeared they think he killed her and

1213
00:52:39,430 --> 00:52:35,690

he says to me I want you to go home I

1214
00:52:41,950 --> 00:52:39,440
was his talks at all and he said what do

1215
00:52:44,140 --> 00:52:41,960
you want this day was tell the walls I

1216
00:52:45,760 --> 00:52:44,150
love her now desperate and I got an

1217
00:52:47,830 --> 00:52:45,770
ember in the heart I'm doing this thing

1218
00:52:49,780 --> 00:52:47,840
and dr. bill isn't back and I'm telling

1219
00:52:51,580 --> 00:52:49,790
talking of the wall and that was a great

1220
00:52:53,350 --> 00:52:51,590
comment i'm from because i didn't know

1221
00:52:55,990 --> 00:52:53,360
there was a genie and that was my

1222
00:52:57,700 --> 00:52:56,000
favorite all that was on first one no in

1223
00:53:00,580 --> 00:52:57,710
fact me a new heart writing was just

1224
00:53:04,120 --> 00:53:00,590
beyond brilliant and there's I mean that

1225
00:53:06,700 --> 00:53:04,130
that was those guys did they took taxi

1226
00:53:08,410 --> 00:53:06,710
they did cheers that I mean that that

1227
00:53:11,220 --> 00:53:08,420
writing was brilliant and Suzanne

1228
00:53:15,250 --> 00:53:11,230
percent I mean come on give me a break

1229
00:53:17,110 --> 00:53:15,260
and there was some episodes of Jeannie

1230
00:53:18,730 --> 00:53:17,120
where you actually got control of

1231
00:53:21,010 --> 00:53:18,740
Jeannie for that episode you became her

1232
00:53:23,080 --> 00:53:21,020
master and we saw a very dark side of

1233
00:53:23,610 --> 00:53:23,090
Roger Healey he suddenly became a very

1234
00:53:25,700 --> 00:53:23,620
greedy

1235
00:53:29,310 --> 00:53:25,710
egomaniac I want to take over the world

1236
00:53:32,070 --> 00:53:29,320
what I was playing by self playing with

1237
00:53:34,200 --> 00:53:32,080
myself the time bill daley I look

1238
00:53:36,240 --> 00:53:34,210

forward to seeing you at target magic

1239
00:53:37,920 --> 00:53:36,250
Danny all right look look look look I'm

1240
00:53:39,180 --> 00:53:37,930
gonna bring photos books and things for

1241
00:53:40,770 --> 00:53:39,190
you to sign and we're gonna we're going

1242
00:53:42,360 --> 00:53:40,780
to chat till your ears bleed at

1243
00:53:45,000 --> 00:53:42,370
supernova bill i look forward to seeing

1244
00:53:46,740 --> 00:53:45,010
you then and maybe a stubby still got

1245
00:53:48,810 --> 00:53:46,750
that convertible from the 60s look at

1246
00:53:50,970 --> 00:53:48,820
that great 60s convertible that was a

1247
00:53:54,120 --> 00:53:50,980
delegate there was a 90 I saw the

1248
00:53:56,460 --> 00:53:54,130
four-point a thousand dollars mr. Shelby

1249
00:53:59,100 --> 00:53:56,470
i paid forty four thousand paid for it

1250
00:54:02,040 --> 00:53:59,110
hello I rabbit know that get one mind

1251
00:54:05,460 --> 00:54:02,050
one mile out per kelvin okay i just want

1252
00:54:07,200 --> 00:54:05,470
a great dog and um and you know i just

1253
00:54:08,850 --> 00:54:07,210
can't wait to see you guys out I can't

1254
00:54:11,820 --> 00:54:08,860
wait to be in Australia I'm so excited

1255
00:54:12,990 --> 00:54:11,830
I'm just coming over here right thank

1256
00:54:15,320 --> 00:54:13,000
you very much for your time and I will

1257
00:54:29,660 --> 00:54:15,330
see you there bill and great to talking

1258
00:54:34,050 --> 00:54:32,010
astronomy cast it takes a fact space

1259
00:54:35,790 --> 00:54:34,060
journey through the cosmos as it offers

1260
00:54:38,460 --> 00:54:35,800
listeners weekly discussions on

1261
00:54:41,370 --> 00:54:38,470
astronomical topics ranging from planets

1262
00:54:43,829 --> 00:54:41,380
to cosmology hosted by Fraser Cain of

1263
00:54:44,700 --> 00:54:43,839

Universe Today and myself dr. Pamela gay

1264
00:54:47,370 --> 00:54:44,710
of southern illinois university

1265
00:54:49,230 --> 00:54:47,380
edwardsville this show brings the

1266
00:54:51,660 --> 00:54:49,240
questions of an avid astronomy lover

1267
00:54:53,760 --> 00:54:51,670
directly to an astronomer together

1268
00:54:55,290 --> 00:54:53,770
Fraser and I explore what is known and

1269
00:54:58,050 --> 00:54:55,300
being discovered about the universe

1270
00:55:00,150 --> 00:54:58,060
around us join us each week as we take a

1271
00:55:12,670 --> 00:55:00,160
fax space journey through the cosmos at

1272
00:55:18,730 --> 00:55:15,250
how do you feel about global win on this

1273
00:55:21,670 --> 00:55:18,740
day I feel very fond of global windows

1274
00:55:23,530 --> 00:55:21,680
it's an important part of our culture

1275
00:55:25,270 --> 00:55:23,540
and I'm glad that it's getting the

1276
00:55:27,339 --> 00:55:25,280
recognition it deserves and what did you

1277
00:55:29,140 --> 00:55:27,349
do to to mark this day last year and

1278
00:55:32,079 --> 00:55:29,150
this year again some sort of party

1279
00:55:33,520 --> 00:55:32,089
planned okay party actually would you be

1280
00:55:36,819 --> 00:55:33,530
the kind of person who would put a wind

1281
00:55:38,890 --> 00:55:36,829
power thing out in their backyard um no

1282
00:55:40,990 --> 00:55:38,900
I don't care about the environment that

1283
00:55:43,240 --> 00:55:41,000
much just nice to have a day where you

1284
00:55:45,730 --> 00:55:43,250
can just talk about wind without fear or

1285
00:55:47,559 --> 00:55:45,740
favour yeah just a day though don't go

1286
00:55:48,640 --> 00:55:47,569
too over the top oh no well you would

1287
00:55:50,410 --> 00:55:48,650
want to go and make it a whole week and

1288
00:55:52,329 --> 00:55:50,420

that would just be ridiculous yeah would

1289
00:55:55,930 --> 00:55:52,339
it get a little tiresome how about that

1290
00:55:58,829 --> 00:55:55,940
ash cloud global wind day over some of

1291
00:56:02,410 --> 00:55:58,839
that here I'm looking at some tub shrubs

1292
00:56:04,270 --> 00:56:02,420
23 meters bending wildly in my direction

1293
00:56:07,180 --> 00:56:04,280
how do you normally commemorate

1294
00:56:09,339 --> 00:56:07,190
International a global wind day there's

1295
00:56:13,000 --> 00:56:09,349
sort of bawling my body up on the floor

1296
00:56:16,240 --> 00:56:13,010
with both clenched fist above the base

1297
00:56:18,520 --> 00:56:16,250
of my skull in a fetal position sort of

1298
00:56:20,859 --> 00:56:18,530
yeah and if I can crawl underneath a

1299
00:56:22,690 --> 00:56:20,869
small table as well that'd be good to

1300
00:56:25,390 --> 00:56:22,700
kind of duck and cover so this is like

1301
00:56:27,760 --> 00:56:25,400
cyclone practice you bet I like to get

1302
00:56:32,799 --> 00:56:27,770
um a small supply of a crumpet and

1303
00:56:35,140 --> 00:56:32,809
crackers around me as well possibly some

1304
00:56:36,309 --> 00:56:35,150
tomatoes in a paring knife you must

1305
00:56:38,589 --> 00:56:36,319
really look forward to the first things

1306
00:56:40,960 --> 00:56:38,599
of June every year yes I say I do I

1307
00:56:42,940 --> 00:56:40,970
shall I do and of course when it comes

1308
00:56:44,680 --> 00:56:42,950
to global wind day there's only one man

1309
00:56:46,299 --> 00:56:44,690
who would want to be represented at the

1310
00:56:48,099 --> 00:56:46,309
front of that particular crowd with his

1311
00:56:50,740 --> 00:56:48,109
sandwich board saying give me more wind

1312
00:56:53,440 --> 00:56:50,750
that'll be Tim Ferguson mer wind more

1313
00:56:55,809 --> 00:56:53,450

wind to the sales already on two sheets

1314
00:56:57,760 --> 00:56:55,819
to the wind I want to get three sheets

1315
00:57:01,780 --> 00:56:57,770
up there and Russell Crowe on the

1316
00:57:04,930 --> 00:57:01,790
lookout regard for years I was joining

1317
00:57:08,170 --> 00:57:04,940
marches saying stop the wind no more

1318
00:57:10,270 --> 00:57:08,180
wind band the wind but these days I've

1319
00:57:12,339 --> 00:57:10,280
changed I've become you know a total

1320
00:57:15,670 --> 00:57:12,349
greenie and I think more wind wind

1321
00:57:17,380 --> 00:57:15,680
faster and wetter than ever before is

1322
00:57:19,870 --> 00:57:17,390
what we need how does your normal

1323
00:57:21,640 --> 00:57:19,880
routine deviate for global wind day well

1324
00:57:26,360 --> 00:57:21,650
of course you have to put on a flowery

1325
00:57:28,220 --> 00:57:26,370
flimsy dress and a moo moo oh yeah

1326
00:57:30,890 --> 00:57:28,230
ooh that's good and you have to wander

1327
00:57:34,040 --> 00:57:30,900
through park singing songs like lalala

1328
00:57:35,870 --> 00:57:34,050
and hey nonny nonny nonny you're the

1329
00:57:38,810 --> 00:57:35,880
kind of person it might just build some

1330
00:57:41,390 --> 00:57:38,820
sort of a wind generation device in your

1331
00:57:42,830 --> 00:57:41,400
backyard merely for the fact that you

1332
00:57:45,890 --> 00:57:42,840
can mock your neighbors that have only

1333
00:57:48,110 --> 00:57:45,900
got solar well I think it's only fair to

1334
00:57:50,780 --> 00:57:48,120
mock my neighbors who only have solar

1335
00:57:52,940 --> 00:57:50,790
because you know what went they standing

1336
00:57:55,880 --> 00:57:52,950
outside and feeling the wind not only

1337
00:57:57,860 --> 00:57:55,890
will I have a big fan making lots of

1338
00:58:00,920 --> 00:57:57,870

noise in the back of my win and killing

1339
00:58:03,800 --> 00:58:00,930
which tailed eagle but I will also have

1340
00:58:05,780 --> 00:58:03,810
a wind sock and then I think all

1341
00:58:28,060 --> 00:58:05,790
Australians can finally say we are

1342
00:58:32,660 --> 00:58:31,130
hi I'm audit oh yeah Kristen or even

1343
00:58:34,940 --> 00:58:32,670
tipsy died so much glitter of a skeptic

1344
00:58:36,620 --> 00:58:34,950
zone um skeptic Amira in la liga the

1345
00:58:38,600 --> 00:58:36,630
VINs not a blog gear or pub def a

1346
00:58:40,910 --> 00:58:38,610
podcast of reading and skip sistema

1347
00:58:42,650 --> 00:58:40,920
Schlichten this drama central data skips

1348
00:58:44,390 --> 00:58:42,660
a stall demo or higher publicize the

1349
00:58:46,370 --> 00:58:44,400
deeps con our Chiclets and calendar /

1350
00:58:47,810 --> 00:58:46,380
activity or link eternity research it

1351
00:58:49,100 --> 00:58:47,820
escapes his blog in of totality I'm

1352
00:58:50,900 --> 00:58:49,110
Leigh autodesk it Harris hefty

1353
00:59:08,890 --> 00:58:50,910
performance so sticky lon 0 Delta do

1354
00:59:13,549 --> 00:59:11,209
thank you for listening to the skeptic

1355
00:59:17,900 --> 00:59:13,559
zone what a strange show that was what a

1356
00:59:21,859 --> 00:59:17,910
mixed bag of different things now as it

1357
00:59:24,529 --> 00:59:21,869
happens our main art and I went to the

1358
00:59:27,499 --> 00:59:24,539
supernova science fiction festival here

1359
00:59:29,569 --> 00:59:27,509
in Sydney just today and next week we're

1360
00:59:31,459 --> 00:59:29,579
going to play some clips from our little

1361
00:59:34,849 --> 00:59:31,469
adventure out there we even bumped into

1362
00:59:37,430 --> 00:59:34,859
some skeptics own fans all good fun but

1363
00:59:43,400 --> 00:59:37,440

for now this is Richard Saunders signing

1364
00:59:46,700 --> 00:59:43,410
off from Sydney Australia you've been

1365
00:59:51,229 --> 00:59:46,710
listening to the skeptic zone visitor

1366
00:59:53,719 --> 00:59:51,239
hub website at www skeptics on TV for