

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

2
00:00:09,089 --> 00:00:13,699
from Australia for science and reason

3
00:00:22,359 --> 00:00:28,640
hello and welcome to the skeptics iron

4
00:00:25,010 --> 00:00:31,580
episode number 274 for the 17th of

5
00:00:28,640 --> 00:00:34,399
january 2014 Richard Saunders here with

6
00:00:31,579 --> 00:00:37,219
you from Sydney Australia which is one

7
00:00:34,399 --> 00:00:40,308
of the few places in Australia not

8
00:00:37,219 --> 00:00:42,859
really getting the full horror of the

9
00:00:40,308 --> 00:00:44,479
current heat wave and my thoughts go out

10
00:00:42,859 --> 00:00:47,359
to those people in South Australia and

11
00:00:44,479 --> 00:00:51,469
Victoria and as I speak there are people

12
00:00:47,359 --> 00:00:53,179
in Victoria being told to batten down

13
00:00:51,469 --> 00:00:54,469
the hatches don't leave their homes

14
00:00:53,179 --> 00:00:56,448
because it's too late the fires

15
00:00:54,469 --> 00:00:59,558
approaching it's not a good situation my

16
00:00:56,448 --> 00:01:01,518
friends you may wish to check your news

17
00:00:59,558 --> 00:01:03,619
resources on the internet to see what

18
00:01:01,518 --> 00:01:06,950
the fire situation is in Australia it's

19
00:01:03,619 --> 00:01:09,319
been bloody hot but what's coming up on

20
00:01:06,950 --> 00:01:11,930
this week's episode of the skeptic zone

21
00:01:09,319 --> 00:01:14,059
I catch up to a very dear old friend of

22
00:01:11,930 --> 00:01:18,080
mine Susan go back from the guerrilla

23
00:01:14,060 --> 00:01:20,990
skepticism outreach program initiative

24
00:01:18,079 --> 00:01:23,989
oh it's so fun it's so nice to see Susan

25
00:01:20,989 --> 00:01:27,049
at the amazing meetings in a Las Vegas

26
00:01:23,989 --> 00:01:31,909
from time to time she's always so happy

27
00:01:27,049 --> 00:01:34,310
and friendly and so enthusiastic so

28
00:01:31,909 --> 00:01:37,189
enthusiastic and keen to do things she's

29

00:01:34,310 --> 00:01:39,350
a real inspiration Susan's going to tell

30
00:01:37,189 --> 00:01:41,359
us all about the current state of a

31
00:01:39,349 --> 00:01:43,669
guerrilla skepticism and what you can do

32
00:01:41,359 --> 00:01:48,260
to help and also we're going to discuss

33
00:01:43,670 --> 00:01:50,840
her approach her journey if you want to

34
00:01:48,260 --> 00:01:53,990
use that terminology through her recent

35
00:01:50,840 --> 00:01:56,390
breast cancer treatment resulting in her

36
00:01:53,989 --> 00:01:59,199
loss of hair and how she's dealt with

37
00:01:56,390 --> 00:02:01,460
that again Susan we are an inspiration

38
00:01:59,200 --> 00:02:02,689
following that it's a wig in science

39
00:02:01,459 --> 00:02:07,669
from our good friends at the Royal

40
00:02:02,689 --> 00:02:11,269
Institution of Australia w WR IA us ova

41
00:02:07,670 --> 00:02:12,530
you this week the Royal Institution are

42
00:02:11,269 --> 00:02:15,230
going to be looking at the Drake

43
00:02:12,530 --> 00:02:17,360

Equation here's their life out there

44

00:02:15,229 --> 00:02:20,568

folks is there life out there on other

45

00:02:17,360 --> 00:02:24,080

parents welder I probably would have to

46

00:02:20,568 --> 00:02:26,389

say yes somewhere in the vastness of

47

00:02:24,080 --> 00:02:29,780

space there must be even if it's a

48

00:02:26,389 --> 00:02:31,608

microbe that's coming up in a week in

49

00:02:29,780 --> 00:02:33,129

science from the Royal Institution of

50

00:02:31,609 --> 00:02:34,659

Australia

51

00:02:33,129 --> 00:02:37,090

and to round off the show me nerds

52

00:02:34,659 --> 00:02:39,219

spooky action more fantastic interviews

53

00:02:37,090 --> 00:02:40,990

from the Australian skeptics National

54

00:02:39,219 --> 00:02:43,830

Convention held just last year in

55

00:02:40,990 --> 00:02:47,020

Canberra this week may not chat stew

56

00:02:43,830 --> 00:02:51,370

skeptic of the year professor Simon

57

00:02:47,020 --> 00:02:53,830

Chapman and they'll discuss his work in

58
00:02:51,370 --> 00:02:56,920
relation to science outreach and health

59
00:02:53,830 --> 00:02:59,800
matters clannad also speaks to chris

60
00:02:56,919 --> 00:03:02,919
kennedy director of the CSIRO discovery

61
00:02:59,800 --> 00:03:06,280
center and he and may not take a very

62
00:03:02,919 --> 00:03:09,039
close look at the land research mural a

63
00:03:06,280 --> 00:03:12,340
very famous mural in Canberra all about

64
00:03:09,039 --> 00:03:16,090
science it's a fantastic fantastic thing

65
00:03:12,340 --> 00:03:18,340
to see and if you go to www pxo TV I

66
00:03:16,090 --> 00:03:20,319
just scroll down to the show notes for

67
00:03:18,340 --> 00:03:23,170
this episode you can click on a link and

68
00:03:20,319 --> 00:03:25,799
see this mural for yourself and may not

69
00:03:23,169 --> 00:03:29,819
also talks to Dan buzzard about his

70
00:03:25,800 --> 00:03:32,860
activities and his work in fighting the

71
00:03:29,819 --> 00:03:35,049
anti-vaccination movement and just

72
00:03:32,860 --> 00:03:37,120
before we get into the show it was such

73
00:03:35,050 --> 00:03:39,700
a pleasure to see our doctor Simon Singh

74
00:03:37,120 --> 00:03:42,490
here in Sydney just last week what a

75
00:03:39,699 --> 00:03:46,239
wonderful man he is and I was very happy

76
00:03:42,490 --> 00:03:48,280
to give him a present for his son Harry

77
00:03:46,240 --> 00:03:51,280
who's only I think three or four very

78
00:03:48,280 --> 00:03:52,689
young I gave him a copy of a DVD i did

79
00:03:51,280 --> 00:03:55,120
some years ago with a very good friend

80
00:03:52,689 --> 00:03:57,930
of mine Gary Clark all about how to make

81
00:03:55,120 --> 00:04:00,430
origami and I was delighted that Simon

82
00:03:57,930 --> 00:04:02,430
twittered about that if you're

83
00:04:00,430 --> 00:04:04,900
interested it's called DVD origami

84
00:04:02,430 --> 00:04:08,379
myself and Gary Clark teach you how to

85
00:04:04,900 --> 00:04:11,349
make 20 origami models everything from

86

00:04:08,379 --> 00:04:13,990
birds to dinosaurs two hats step-by-step

87
00:04:11,349 --> 00:04:17,079
instructions if you go to www skeptics

88
00:04:13,990 --> 00:04:20,680
on TV just scroll down and on the Left

89
00:04:17,079 --> 00:04:23,769
you'll see DVD origami you might enjoy

90
00:04:20,680 --> 00:04:25,990
it and also I see in the news just today

91
00:04:23,769 --> 00:04:28,919
that there's been and I hate to use this

92
00:04:25,990 --> 00:04:32,319
term I really do a breakthrough in

93
00:04:28,920 --> 00:04:35,379
medicine when it comes to restoring

94
00:04:32,319 --> 00:04:37,599
vision using gene therapy wow what an

95
00:04:35,379 --> 00:04:40,779
exciting time to live let's see

96
00:04:37,600 --> 00:04:42,370
superstition top that but for now I'm

97
00:04:40,779 --> 00:04:44,109
going to run to the fridge have some

98
00:04:42,370 --> 00:04:45,910
more ice water in fact I'm going to

99
00:04:44,110 --> 00:04:49,420
cheat I have some right here

100
00:04:45,910 --> 00:04:51,580

in this bottle it's that sort of a day

101

00:04:49,420 --> 00:04:55,080

folks i might even also have a peanut

102

00:04:51,579 --> 00:04:59,469

butter sandwich or a peanut butter and

103

00:04:55,079 --> 00:05:02,409

golden syrup sandwich whoa decadent hmm

104

00:04:59,470 --> 00:05:05,010

well I'm doing that I hope you enjoy the

105

00:05:02,410 --> 00:05:05,010

skeptics am

106

00:05:22,009 --> 00:05:26,819

joining me now all the way from sunny

107

00:05:24,899 --> 00:05:29,158

spectacular well it's a bit cool this

108

00:05:26,819 --> 00:05:33,150

time of year California it's Susan Kovac

109

00:05:29,158 --> 00:05:34,589

hello Susan hi Richard it's really nice

110

00:05:33,149 --> 00:05:35,758

to see you've just for the benefit of

111

00:05:34,589 --> 00:05:37,769

our listeners because we're actually

112

00:05:35,759 --> 00:05:43,319

video each other at the moment and there

113

00:05:37,769 --> 00:05:45,089

you are beaming away at me so to speak

114

00:05:43,319 --> 00:05:47,639

listen I wanted to catch up with you for

115
00:05:45,089 --> 00:05:50,128
a long time now because I do play the

116
00:05:47,639 --> 00:05:52,788
little little clips and ads on the

117
00:05:50,129 --> 00:05:55,680
skeptical zone for guerrilla skepticism so

118
00:05:52,788 --> 00:05:58,800
can you give our listeners a bit of an

119
00:05:55,680 --> 00:06:01,288
overview on how that's all going how

120
00:05:58,800 --> 00:06:04,319
it's going and we do appreciate it i get

121
00:06:01,288 --> 00:06:06,870
listeners of yours every so often who

122
00:06:04,319 --> 00:06:09,050
will write to me and volunteer their

123
00:06:06,870 --> 00:06:11,610
services so we really do appreciate it

124
00:06:09,050 --> 00:06:14,520
so you want to know how we're going well

125
00:06:11,610 --> 00:06:17,819
we're going great it's actually going

126
00:06:14,519 --> 00:06:21,628
very well but I need a lot more a lot

127
00:06:17,819 --> 00:06:23,370
more volunteers because it is you know

128
00:06:21,629 --> 00:06:26,669
being a volunteer organization it's a

129
00:06:23,370 --> 00:06:31,139
little difficult to force people to edit

130
00:06:26,668 --> 00:06:32,668
Wikipedia and once they volunteer they

131
00:06:31,139 --> 00:06:35,639
end up getting a little busy sometimes

132
00:06:32,668 --> 00:06:37,948
and there's a lot of work to be done yet

133
00:06:35,639 --> 00:06:39,838
there sure is and I can appreciate what

134
00:06:37,949 --> 00:06:42,028
you're saying when when you're working

135
00:06:39,838 --> 00:06:44,218
with a lot of one's volunteers you can't

136
00:06:42,028 --> 00:06:45,689
really make them do something and people

137
00:06:44,218 --> 00:06:47,788
do this out of the goodness of their

138
00:06:45,689 --> 00:06:50,278
hearts if there or if their hearts are

139
00:06:47,788 --> 00:06:51,959
in it of course and you you're getting a

140
00:06:50,278 --> 00:06:54,449
lot of people all around the world

141
00:06:51,959 --> 00:06:57,810
helping you out aren't you yes I am I

142
00:06:54,449 --> 00:06:59,960
just got another editor from another

143

00:06:57,810 --> 00:07:05,639
Spanish editor this one's an ERG way and

144
00:06:59,959 --> 00:07:08,848
I have now to Hebrew editors and oh yeah

145
00:07:05,639 --> 00:07:11,550
I have I and it's great because we are

146
00:07:08,848 --> 00:07:14,639
able to converse this is kind of a

147
00:07:11,550 --> 00:07:16,860
perfect storm project we would never

148
00:07:14,639 --> 00:07:19,848
have been able to do this without the

149
00:07:16,860 --> 00:07:22,860
without email without facebook without

150
00:07:19,848 --> 00:07:24,389
things like Skype because we can

151
00:07:22,860 --> 00:07:25,050
converse in real time with everyone

152
00:07:24,389 --> 00:07:27,030
everywhere

153
00:07:25,050 --> 00:07:28,348
and it's just amazing to be able to do

154
00:07:27,029 --> 00:07:31,019
that kind of thing we couldn't have done

155
00:07:28,348 --> 00:07:33,240
this 10 or 15 years ago well wikipedia

156
00:07:31,019 --> 00:07:35,579
didn't really exist ten years ago but I

157
00:07:33,240 --> 00:07:38,009

mean 11 years ago is I think when it

158

00:07:35,579 --> 00:07:40,139

started but we it's only something that

159

00:07:38,009 --> 00:07:43,229

this is a project then only can be done

160

00:07:40,139 --> 00:07:45,150

now with the tools that we have I think

161

00:07:43,228 --> 00:07:46,949

you're absolutely right it's it's sort

162

00:07:45,149 --> 00:07:48,628

of a very appropriate thing for the time

163

00:07:46,949 --> 00:07:51,090

now for those listeners who are

164

00:07:48,629 --> 00:07:53,189

relatively new to the skeptics on what

165

00:07:51,089 --> 00:07:54,689

you're doing is you're getting people

166

00:07:53,189 --> 00:07:56,339

from all around the world who speak all

167

00:07:54,689 --> 00:07:59,788

sorts of different languages to come in

168

00:07:56,339 --> 00:08:01,978

and really do international versions of

169

00:07:59,788 --> 00:08:04,468

Wikipedia sites on you we compete your

170

00:08:01,978 --> 00:08:07,519

pages mm-hmm that's right we're trying

171

00:08:04,468 --> 00:08:10,019

to rewrite Wikipedia using focus on

172
00:08:07,519 --> 00:08:12,149
scientific skepticism and we're trying

173
00:08:10,019 --> 00:08:14,818
to do it in all languages we have a

174
00:08:12,149 --> 00:08:17,218
project called we got your wiki back

175
00:08:14,819 --> 00:08:20,069
which seems to be our most popular and

176
00:08:17,218 --> 00:08:23,189
what we do is we try to take prominent

177
00:08:20,069 --> 00:08:26,689
skeptics who've written books or who do

178
00:08:23,189 --> 00:08:29,129
podcasts or who are doing research

179
00:08:26,689 --> 00:08:31,620
investigations that kind of thing we're

180
00:08:29,129 --> 00:08:33,509
trying to give those pages a boost and

181
00:08:31,620 --> 00:08:36,479
try to improve them we also do a lot of

182
00:08:33,509 --> 00:08:38,578
scientists pages the scientists we

183
00:08:36,479 --> 00:08:42,450
usually choose our people who have

184
00:08:38,578 --> 00:08:46,049
lectured for the skeptical community and

185
00:08:42,450 --> 00:08:48,930
so on so our goal is to when that person

186
00:08:46,049 --> 00:08:51,569
is in the media's I you know maybe

187
00:08:48,929 --> 00:08:55,169
they're doing a program for nova or they

188
00:08:51,570 --> 00:08:56,760
have a book or a research project coming

189
00:08:55,169 --> 00:08:59,009
out or something like that they're going

190
00:08:56,759 --> 00:09:01,649
to be in the public's eye and we want

191
00:08:59,009 --> 00:09:04,649
people to be able to google the person's

192
00:09:01,649 --> 00:09:07,289
name they're going to get a Wikipedia

193
00:09:04,649 --> 00:09:08,669
page probably most likely everybody

194
00:09:07,289 --> 00:09:10,349
knows that's one of the first hits they

195
00:09:08,669 --> 00:09:12,539
get and people are going to go check

196
00:09:10,350 --> 00:09:14,550
them out we want to make sure that that

197
00:09:12,539 --> 00:09:19,769
page is in really great shape it's

198
00:09:14,549 --> 00:09:21,809
really it shows some respect some shows

199
00:09:19,769 --> 00:09:26,278
that they're notable shows that their

200

00:09:21,809 --> 00:09:30,328
opinion is important so that when mr.

201
00:09:26,278 --> 00:09:32,909
mrs. public looks at this Wikipedia page

202
00:09:30,328 --> 00:09:35,399
and they're there watching the person on

203
00:09:32,909 --> 00:09:38,850
nova or wherever National Geographic or

204
00:09:35,399 --> 00:09:41,568
a podcast or whatever they'll be able

205
00:09:38,850 --> 00:09:46,339
know that this person is reputable

206
00:09:41,568 --> 00:09:48,750
absolutely now apart from this ongoing

207
00:09:46,339 --> 00:09:51,810
project which is sort of become a bit of

208
00:09:48,750 --> 00:09:54,389
a passion of yours I can tell you are

209
00:09:51,809 --> 00:09:55,888
currently undergoing a bit of treatment

210
00:09:54,389 --> 00:09:58,528
yourself and for those listeners who may

211
00:09:55,889 --> 00:09:59,698
not not realize what's Lord what's the

212
00:09:58,528 --> 00:10:02,220
process you're going through what's

213
00:09:59,698 --> 00:10:06,028
happening to you right now oh yes I have

214
00:10:02,220 --> 00:10:08,250

well I guess I had breast cancer I think

215

00:10:06,028 --> 00:10:11,059

it's gone now they say it's gone but we

216

00:10:08,250 --> 00:10:14,730

don't know for sure I had 20 weeks of

217

00:10:11,059 --> 00:10:17,578

chemo I have stage two breast cancer and

218

00:10:14,730 --> 00:10:21,120

I'm very public about it i'm not shy

219

00:10:17,578 --> 00:10:22,500

about it at all and um right now I'm

220

00:10:21,120 --> 00:10:24,389

going through radiation I've completely

221

00:10:22,500 --> 00:10:27,799

finished the chemo which was 16

222

00:10:24,389 --> 00:10:31,769

treatments it was quite an adventure and

223

00:10:27,799 --> 00:10:34,139

not something that I would gladly do

224

00:10:31,769 --> 00:10:37,230

again for the heck of it you know but

225

00:10:34,139 --> 00:10:39,028

you know it wasn't as bad as I had been

226

00:10:37,230 --> 00:10:42,389

you know I thought it would be

227

00:10:39,028 --> 00:10:44,698

considering you know just how bad cancer

228

00:10:42,389 --> 00:10:46,470

seems to be it was it it really wasn't

229
00:10:44,698 --> 00:10:49,379
that bad I mean it was bad but it wasn't

230
00:10:46,470 --> 00:10:52,800
that bad I don't I think for the people

231
00:10:49,379 --> 00:10:54,720
like you each year that passes the

232
00:10:52,799 --> 00:10:56,578
treatment it gets better and better and

233
00:10:54,720 --> 00:10:58,199
the side effects can be managed more

234
00:10:56,578 --> 00:11:01,438
successfully I think but you've

235
00:10:58,198 --> 00:11:03,120
certainly been up front about it to the

236
00:11:01,438 --> 00:11:06,299
extent I think you're having as much fun

237
00:11:03,120 --> 00:11:08,179
as anybody can have with this by posting

238
00:11:06,299 --> 00:11:11,879
very interesting photographs of yourself

239
00:11:08,179 --> 00:11:14,219
I think the last one that really caught

240
00:11:11,879 --> 00:11:17,039
my eye were done up is not for r2 which

241
00:11:14,220 --> 00:11:18,660
was quite stunning oh it was great and

242
00:11:17,039 --> 00:11:22,379
you know what that was so much fun it's

243
00:11:18,659 --> 00:11:24,509
my boyfriend mark Edward he had he was

244
00:11:22,379 --> 00:11:26,970
here visiting me he lives about 300

245
00:11:24,509 --> 00:11:28,620
miles away so when he's when we're

246
00:11:26,970 --> 00:11:32,250
together we have a lot we do have a lot

247
00:11:28,620 --> 00:11:35,039
of fun he said I'd put on I have lost my

248
00:11:32,250 --> 00:11:36,568
eyebrows on my eyelashes and women just

249
00:11:35,039 --> 00:11:38,250
look really different when they don't

250
00:11:36,568 --> 00:11:41,278
have eyelashes and eyebrows and I don't

251
00:11:38,250 --> 00:11:44,698
have my fingernails are are almost all

252
00:11:41,278 --> 00:11:46,379
gone to from the chemo so I they're

253
00:11:44,698 --> 00:11:47,789
growing out now but I can't really put

254
00:11:46,379 --> 00:11:50,068
on fake eyelashes or anything like that

255
00:11:47,789 --> 00:11:52,319
because i don't have fingernails so it

256
00:11:50,068 --> 00:11:53,849
is really kind of weird

257

00:11:52,320 --> 00:11:55,290
but anyway one day I was trying to put

258
00:11:53,850 --> 00:11:57,360
some makeup on when he was here and he

259
00:11:55,289 --> 00:12:00,329
said I said how do I look and he says

260
00:11:57,360 --> 00:12:03,029
you look like Uncle Fester so he said

261
00:12:00,330 --> 00:12:04,830
you know what why don't we take a photo

262
00:12:03,029 --> 00:12:06,839
would you be game for that and I said

263
00:12:04,830 --> 00:12:08,340
sure so we dressed me up his uncle

264
00:12:06,840 --> 00:12:10,970
fester and put a light bulb in my mouth

265
00:12:08,340 --> 00:12:14,100
and that was kind of the start of it

266
00:12:10,970 --> 00:12:16,019
somebody on facebook when I put up the

267
00:12:14,100 --> 00:12:18,360
uncle fester photo said that he would

268
00:12:16,019 --> 00:12:24,539
give a hundred dollars to his local

269
00:12:18,360 --> 00:12:28,789
cancer cancer treatment center in his

270
00:12:24,539 --> 00:12:31,199
town in Arkansas if I dressed up as no

271
00:12:28,789 --> 00:12:33,719

say the name for meanness nosferatu

272

00:12:31,200 --> 00:12:37,920

nostri died I've never heard of them

273

00:12:33,720 --> 00:12:40,290

being huh and so I waited a few days and

274

00:12:37,919 --> 00:12:43,079

we played around with it and I did we

275

00:12:40,289 --> 00:12:45,120

went into portraits down at a very

276

00:12:43,080 --> 00:12:49,350

public place that had an archway that

277

00:12:45,120 --> 00:12:51,389

kind of fit the theme and the i posted

278

00:12:49,350 --> 00:12:53,700

up on facebook and that that person

279

00:12:51,389 --> 00:12:56,429

donated two hundred and fifty dollars to

280

00:12:53,700 --> 00:12:57,900

his cancer treatment center in his town

281

00:12:56,429 --> 00:13:00,000

he thought it was so great he said i'd

282

00:12:57,899 --> 00:13:02,039

gone over the top and done it had done a

283

00:13:00,000 --> 00:13:04,230

better job and then i did one right

284

00:13:02,039 --> 00:13:05,549

after that of dr. evil and I didn't

285

00:13:04,230 --> 00:13:08,610

really like the way that one came out

286
00:13:05,549 --> 00:13:11,009
but you know I have I have been having

287
00:13:08,610 --> 00:13:14,909
as much fun as I possibly can because I

288
00:13:11,009 --> 00:13:16,409
don't plan on being bald again well I

289
00:13:14,909 --> 00:13:18,600
think that's that that's a wonderful

290
00:13:16,409 --> 00:13:21,480
attitude to have and it's one of the

291
00:13:18,600 --> 00:13:25,740
themes that comes up there's this idea

292
00:13:21,480 --> 00:13:28,170
at large that too to help you get

293
00:13:25,740 --> 00:13:29,970
through something like cancer or or

294
00:13:28,169 --> 00:13:31,409
whatever it is if you have this great

295
00:13:29,970 --> 00:13:33,840
positive attitude that's going to help

296
00:13:31,409 --> 00:13:36,240
you fight the cancer and win but as we

297
00:13:33,840 --> 00:13:38,310
all know having a positive attitude

298
00:13:36,240 --> 00:13:40,590
really just helps you get through the

299
00:13:38,309 --> 00:13:42,119
process more than anything else you're a

300
00:13:40,590 --> 00:13:44,370
hundred percent right and I think that's

301
00:13:42,120 --> 00:13:46,379
a really good thing to raise i felt bad

302
00:13:44,370 --> 00:13:51,480
throughout the whole time that I've been

303
00:13:46,379 --> 00:13:53,129
public because I felt that having a you

304
00:13:51,480 --> 00:13:54,690
know if I have a really good day and I'm

305
00:13:53,129 --> 00:13:56,580
talking about it that I feel like I'm

306
00:13:54,690 --> 00:13:59,640
almost telling people who have cancer

307
00:13:56,580 --> 00:14:00,960
that are having bad days that there's

308
00:13:59,639 --> 00:14:02,850
something wrong with them that they're

309
00:14:00,960 --> 00:14:04,610
not thinking positively enough or

310
00:14:02,850 --> 00:14:06,209
something like that and I feel really

311
00:14:04,610 --> 00:14:08,188
self-conscious but what

312
00:14:06,208 --> 00:14:10,739
you start making posts on Facebook or

313
00:14:08,188 --> 00:14:12,328
Twitter about it and people are writing

314

00:14:10,740 --> 00:14:15,360
to me and telling me how much they enjoy

315
00:14:12,328 --> 00:14:17,278
the photos and have my attitude I feel

316
00:14:15,360 --> 00:14:20,339
and then people start telling me things

317
00:14:17,278 --> 00:14:21,720
like you're a hero and you're so this

318
00:14:20,339 --> 00:14:24,329
and you're so that I'm thinking I'm

319
00:14:21,720 --> 00:14:26,220
doing nothing I'm just you know trying

320
00:14:24,328 --> 00:14:29,039
to have a positive attitude about it it

321
00:14:26,220 --> 00:14:31,439
is a scientist it is those people behind

322
00:14:29,039 --> 00:14:34,049
the scenes who are doing everything the

323
00:14:31,438 --> 00:14:36,448
fact that I I didn't have any nausea the

324
00:14:34,049 --> 00:14:40,859
whole time in fact I gained weight and

325
00:14:36,448 --> 00:14:43,169
too much weight but I mean it's it's

326
00:14:40,860 --> 00:14:45,829
science that did it for me and then the

327
00:14:43,169 --> 00:14:48,360
people who are working at the clinic and

328
00:14:45,828 --> 00:14:49,739

all those people with their positive

329

00:14:48,360 --> 00:14:51,659

attitudes that's what's getting me

330

00:14:49,740 --> 00:14:54,568

through to and my friends oh my gosh

331

00:14:51,659 --> 00:14:55,889

everybody's been so wonderful so you

332

00:14:54,568 --> 00:14:57,838

know and I didn't really want to post if

333

00:14:55,889 --> 00:15:00,539

I had a kind of a bad day because I

334

00:14:57,839 --> 00:15:03,809

didn't want to turn anybody away make

335

00:15:00,539 --> 00:15:05,519

them think that oh I should never have a

336

00:15:03,808 --> 00:15:07,230

key mode because you know she's gonna

337

00:15:05,519 --> 00:15:09,778

lose her fingernails or you're gonna do

338

00:15:07,230 --> 00:15:11,759

this and and it's very very rare that

339

00:15:09,778 --> 00:15:14,669

somebody loses their fingernails as much

340

00:15:11,759 --> 00:15:18,298

as I have that's very rare so I just

341

00:15:14,669 --> 00:15:19,618

happen to be an exception so don't freak

342

00:15:18,298 --> 00:15:20,759

out if you think you're gonna have to

343
00:15:19,619 --> 00:15:21,899
have chemo and you're going to think

344
00:15:20,759 --> 00:15:25,919
you're gonna lose your fingernails it's

345
00:15:21,899 --> 00:15:27,298
really really unusual ok so I mean

346
00:15:25,919 --> 00:15:30,240
really I haven't done much of anything

347
00:15:27,298 --> 00:15:32,698
except just you know play it for all

348
00:15:30,240 --> 00:15:34,948
it's worth and but you're absolutely

349
00:15:32,698 --> 00:15:36,719
right Richard having a positive attitude

350
00:15:34,948 --> 00:15:39,240
will get you through the treatment I

351
00:15:36,720 --> 00:15:42,540
learned over and over and over that when

352
00:15:39,240 --> 00:15:45,089
you are that if you're going through

353
00:15:42,539 --> 00:15:47,399
chemo chemo still hard stuff radiations

354
00:15:45,089 --> 00:15:49,439
nothing if you're going through chemo

355
00:15:47,399 --> 00:15:51,389
you need to go to work you need to get

356
00:15:49,438 --> 00:15:53,099
up you need to go for walks you need to

357
00:15:51,389 --> 00:15:55,259
wash your dishes you need to clean your

358
00:15:53,100 --> 00:15:57,209
house you need to pet your cat you need

359
00:15:55,259 --> 00:15:59,548
to go out with friends go to the movies

360
00:15:57,208 --> 00:16:01,588
you need to be active because when

361
00:15:59,548 --> 00:16:03,240
you're when you win your life that you

362
00:16:01,589 --> 00:16:05,339
hang out with people who are fun and you

363
00:16:03,240 --> 00:16:06,720
can laugh and that kind of thing you

364
00:16:05,339 --> 00:16:09,509
will get through the chemo so much

365
00:16:06,720 --> 00:16:11,639
easier it's when you come home and you

366
00:16:09,509 --> 00:16:13,999
sit on the couch and you watch TV and

367
00:16:11,639 --> 00:16:16,980
you you start to get a little depressed

368
00:16:13,999 --> 00:16:18,509
it's it's not good for you they

369
00:16:16,980 --> 00:16:20,670
explained it to me saying that your body

370
00:16:18,509 --> 00:16:23,370
creates a steroid a natural

371

00:16:20,669 --> 00:16:25,019
steroid when you're active and the

372
00:16:23,370 --> 00:16:27,659
steroids really help you get through the

373
00:16:25,019 --> 00:16:30,059
process that kind of natural thing and

374
00:16:27,659 --> 00:16:32,279
so you know anybody who's listening

375
00:16:30,059 --> 00:16:34,859
who's going to be going through this

376
00:16:32,279 --> 00:16:36,990
process just really do everything you

377
00:16:34,860 --> 00:16:38,940
can to get up and keep active and be

378
00:16:36,990 --> 00:16:41,340
with hang out with people that are fun I

379
00:16:38,940 --> 00:16:43,710
think that's just wonderful advice and

380
00:16:41,340 --> 00:16:47,340
that coupled with the fact that every

381
00:16:43,710 --> 00:16:50,970
year scientific advancements in medicine

382
00:16:47,340 --> 00:16:52,980
make it better and easier for people

383
00:16:50,970 --> 00:16:56,460
like yourself I think they should give

384
00:16:52,980 --> 00:17:00,600
everybody heart I think mm-hmm and stage

385
00:16:56,460 --> 00:17:02,550

two stage three stage four they they can

386

00:17:00,600 --> 00:17:05,160

fix almost anything these days you guys

387

00:17:02,549 --> 00:17:07,109

really it's not cancer is not the

388

00:17:05,160 --> 00:17:09,870

disease that that I was raised to

389

00:17:07,109 --> 00:17:11,639

believe what was so horrible my father

390

00:17:09,869 --> 00:17:15,629

died of cancer not the same kind of

391

00:17:11,640 --> 00:17:17,310

thing but when he died we weren't even

392

00:17:15,630 --> 00:17:20,670

allowed to mention the word and he died

393

00:17:17,309 --> 00:17:23,879

in 89 1989 and we couldn't put in the

394

00:17:20,670 --> 00:17:26,880

obituaries it was a whispered word you

395

00:17:23,880 --> 00:17:29,190

did not know it was horrible is it was

396

00:17:26,880 --> 00:17:31,200

like a very very bad thing to say so

397

00:17:29,190 --> 00:17:34,830

nowadays it's like hey you know I've got

398

00:17:31,200 --> 00:17:38,069

breast cancer I fell totally totally

399

00:17:34,829 --> 00:17:40,619

changed well that that's that's

400
00:17:38,069 --> 00:17:43,379
absolutely a wonderful attitude to have

401
00:17:40,619 --> 00:17:45,229
now Susan how can people getting back to

402
00:17:43,380 --> 00:17:48,120
our original topic how can people

403
00:17:45,230 --> 00:17:51,210
continue to help out the guerrilla

404
00:17:48,119 --> 00:17:53,250
skepticism project oh oh my gosh Richard

405
00:17:51,210 --> 00:17:56,670
I'm so glad you asked if we really need

406
00:17:53,250 --> 00:18:01,940
people to help us out are you can write

407
00:17:56,670 --> 00:18:04,110
to us at GS o w team @ gmail.com and

408
00:18:01,940 --> 00:18:07,640
what we're going to do is we're going to

409
00:18:04,109 --> 00:18:10,259
ask you to open a Wikipedia account and

410
00:18:07,640 --> 00:18:14,310
let me know where you heard about us and

411
00:18:10,259 --> 00:18:16,019
to let me know what language you want to

412
00:18:14,309 --> 00:18:17,730
edit in and then we'll put you through

413
00:18:16,019 --> 00:18:19,109
training you'll have to go to our forum

414
00:18:17,730 --> 00:18:22,019
which will give you the link to because

415
00:18:19,109 --> 00:18:23,189
it's a super secret forum and then

416
00:18:22,019 --> 00:18:26,400
you'll be able to come in there and

417
00:18:23,190 --> 00:18:29,009
we'll start you out with process process

418
00:18:26,400 --> 00:18:31,620
you through the training and it's a lot

419
00:18:29,009 --> 00:18:32,940
of fun it's a community and you'll have

420
00:18:31,619 --> 00:18:33,778
a really great time and you'll learn how

421
00:18:32,940 --> 00:18:36,330
to change the

422
00:18:33,778 --> 00:18:38,819
old one Wikipedia page at a time it

423
00:18:36,329 --> 00:18:41,249
sounds good well Susan I'm so pleased

424
00:18:38,819 --> 00:18:43,618
that you're on the job as it were you're

425
00:18:41,249 --> 00:18:44,999
on the case you're keeping at it despite

426
00:18:43,618 --> 00:18:46,978
everything that you've been going

427
00:18:44,999 --> 00:18:48,839
through I look forward to seeing more

428

00:18:46,979 --> 00:18:51,690
wacky pictures of you until your hair

429
00:18:48,839 --> 00:18:53,128
grows back and maybe when it starts to

430
00:18:51,690 --> 00:18:55,619
grow back you can even have some more

431
00:18:53,128 --> 00:18:57,748
fun with it I'm not sure oh I don't know

432
00:18:55,618 --> 00:18:59,548
i'll be a normal human being back then

433
00:18:57,749 --> 00:19:02,519
but it sure really has been kind of fun

434
00:18:59,548 --> 00:19:04,048
you know seriously you guys I think

435
00:19:02,519 --> 00:19:05,819
every woman should shave her head at

436
00:19:04,048 --> 00:19:08,690
some point in her life and not because

437
00:19:05,819 --> 00:19:12,838
she has cancer but I think it's a really

438
00:19:08,690 --> 00:19:14,609
interesting social experiment and you

439
00:19:12,838 --> 00:19:18,658
really makes you think about what is

440
00:19:14,608 --> 00:19:20,398
beauty and what really is you know how

441
00:19:18,659 --> 00:19:22,830
you feel about yourself and these kinds

442
00:19:20,398 --> 00:19:25,199

of things I it's been a life-changing

443

00:19:22,829 --> 00:19:27,468

experience trust me not just having

444

00:19:25,200 --> 00:19:29,548

cancer but you know losing your hair is

445

00:19:27,469 --> 00:19:31,320

something else let me tell you but I

446

00:19:29,548 --> 00:19:32,878

think most women should do it just some

447

00:19:31,319 --> 00:19:37,499

time but their life just I think it

448

00:19:32,878 --> 00:19:40,528

would be something that they will look

449

00:19:37,499 --> 00:19:42,329

back on with fond memories no there we

450

00:19:40,528 --> 00:19:44,038

go if we see lots of women in the street

451

00:19:42,329 --> 00:19:48,269

with bald heads next week we'll know who

452

00:19:44,038 --> 00:19:50,308

to blame okay that's fine Susan Kovac

453

00:19:48,269 --> 00:19:54,108

with that great attitude thank you very

454

00:19:50,308 --> 00:19:54,108

much thank you Richard

455

00:20:05,619 --> 00:20:11,389

it never ends a friend starts talking

456

00:20:09,109 --> 00:20:12,829

about his new Reiki Master and someone

457
00:20:11,390 --> 00:20:15,710
else just posted about another

458
00:20:12,829 --> 00:20:18,079
all-natural cancer cure that they don't

459
00:20:15,710 --> 00:20:19,519
want you to know about as skeptics we

460
00:20:18,079 --> 00:20:21,980
spend a lot of time trying to educate

461
00:20:19,519 --> 00:20:23,680
and protect those around us but there is

462
00:20:21,980 --> 00:20:26,539
a way that you can reach millions

463
00:20:23,680 --> 00:20:28,610
guerrilla skepticism on Wikipedia is a

464
00:20:26,539 --> 00:20:30,250
group working to keep the best skeptical

465
00:20:28,609 --> 00:20:33,759
information at everyone's fingertips

466
00:20:30,250 --> 00:20:37,670
join us we need writers editors

467
00:20:33,759 --> 00:20:40,039
translators we need you you join us or

468
00:20:37,670 --> 00:20:43,370
find out more send a facebook friend

469
00:20:40,039 --> 00:20:49,149
request to Susan Berbick that's ger be

470
00:20:43,369 --> 00:20:49,149
icy guerrilla skepticism the time is now

471
00:20:51,410 --> 00:20:56,310
hi this is Lauren Cochrane president of

472
00:20:54,119 --> 00:20:58,109
Canberra skeptics our next meetup will

473
00:20:56,309 --> 00:21:01,019
be our annual social function on the

474
00:20:58,109 --> 00:21:03,709
19th of January 1pm in the barbecue area

475
00:21:01,019 --> 00:21:06,210
behind Questacon this event is BYO

476
00:21:03,710 --> 00:21:07,559
following the BBQ Questacon will be

477
00:21:06,210 --> 00:21:10,079
holding a free screening of the

478
00:21:07,559 --> 00:21:12,480
documentary flock of dodos produced by

479
00:21:10,079 --> 00:21:14,970
filmmaker and evolutionary ecologist dr.

480
00:21:12,480 --> 00:21:17,039
Randy Olson this documentary takes a

481
00:21:14,970 --> 00:21:19,529
look at the evolution versus intelligent

482
00:21:17,039 --> 00:21:21,269
design controversy for more information

483
00:21:19,529 --> 00:21:23,460
about this and other Canberra skeptics

484
00:21:21,269 --> 00:21:26,639
events look for us on facebook twitter

485

00:21:23,460 --> 00:21:29,730
meetup or visit canberra skeptics or gay

486
00:21:26,640 --> 00:21:32,490
you barcamp canberra is back again for

487
00:21:29,730 --> 00:21:34,680
2014 we welcome anyone interested in

488
00:21:32,490 --> 00:21:37,109
science communication scepticism maker

489
00:21:34,680 --> 00:21:39,600
or hacker culture social innovation gulf

490
00:21:37,109 --> 00:21:41,849
2 point 0 or the web to come along be

491
00:21:39,599 --> 00:21:44,039
ready to participate anyone can give a

492
00:21:41,849 --> 00:21:46,139
talk during the 20-minute sessions this

493
00:21:44,039 --> 00:21:47,849
year barcamp canberra will be held at

494
00:21:46,140 --> 00:21:51,000
the Gungan library on the fifteenth of

495
00:21:47,849 --> 00:21:55,490
march as always entry is free for more

496
00:21:51,000 --> 00:21:55,490
information visit barcamp canberra org

497
00:22:03,419 --> 00:22:08,440
welcome to a weakened science from ra oz

498
00:22:06,278 --> 00:22:10,269
bringing you the science you need to

499
00:22:08,440 --> 00:22:13,240

know have you ever wondered if there's

500

00:22:10,269 --> 00:22:15,099

life out there but believe it or not

501

00:22:13,240 --> 00:22:17,470

there's actually an equation to work out

502

00:22:15,099 --> 00:22:28,509

the probability of extraterrestrial life

503

00:22:17,470 --> 00:22:29,980

and it's called the Drake Equation so

504

00:22:28,509 --> 00:22:33,069

there's this astronomer named Frank

505

00:22:29,980 --> 00:22:35,200

Drake he started searching

506

00:22:33,069 --> 00:22:37,240

the universe for signals which may

507

00:22:35,200 --> 00:22:39,850

indicate the presence of intelligent

508

00:22:37,240 --> 00:22:41,558

life then in nineteen sixty one who was

509

00:22:39,849 --> 00:22:43,959

helping organize a conference and

510

00:22:41,558 --> 00:22:45,609

started thinking about all the factors

511

00:22:43,960 --> 00:22:47,740

which would need to be considered when

512

00:22:45,609 --> 00:22:50,349

trying to predict where the intelligent

513

00:22:47,740 --> 00:22:52,839

life was out there what he came up with

514
00:22:50,349 --> 00:22:55,658
is this equation which multiplies

515
00:22:52,839 --> 00:22:57,220
together the rate of star formation the

516
00:22:55,659 --> 00:22:59,649
fraction of those stars which have

517
00:22:57,220 --> 00:23:02,110
planets how many of those planets that

518
00:22:59,648 --> 00:23:03,879
could support life the fraction of

519
00:23:02,109 --> 00:23:06,069
planets which could support life that

520
00:23:03,880 --> 00:23:07,990
actually develop life at some points the

521
00:23:06,069 --> 00:23:09,939
fraction of civilizations that develop a

522
00:23:07,990 --> 00:23:11,888
technology that releases detectable

523
00:23:09,940 --> 00:23:13,860
signs of their existence into space and

524
00:23:11,888 --> 00:23:16,449
the length of time for which such

525
00:23:13,859 --> 00:23:20,918
civilizations release detectable signals

526
00:23:16,450 --> 00:23:22,990
into space now obviously some of those

527
00:23:20,919 --> 00:23:26,139
factors are measurable or can be

528
00:23:22,990 --> 00:23:28,778
calculated but some we just don't know I

529
00:23:26,138 --> 00:23:30,428
mean how do you know how many planets

530
00:23:28,778 --> 00:23:32,619
with life go on to develop a

531
00:23:30,429 --> 00:23:34,630
civilization or how many of those

532
00:23:32,619 --> 00:23:36,819
develop technology which releases

533
00:23:34,630 --> 00:23:38,950
detectable signals because of these

534
00:23:36,819 --> 00:23:41,109
limitations the Drake Equation isn't

535
00:23:38,950 --> 00:23:43,210
really used to predict the abundance of

536
00:23:41,109 --> 00:23:45,339
life out there but it is an interesting

537
00:23:43,210 --> 00:23:47,019
equation to just contemplate when

538
00:23:45,339 --> 00:23:49,209
thinking about life in the universe and

539
00:23:47,019 --> 00:23:52,028
what is required for us to find it and

540
00:23:49,210 --> 00:23:54,808
now for fast facts about the search for

541
00:23:52,028 --> 00:23:54,808
life on other planets

542

00:23:54,869 --> 00:23:59,709
the Voyager space probes carry records

543
00:23:58,148 --> 00:24:02,229
which contain information about Earth

544
00:23:59,710 --> 00:24:04,450
and humans in case it meets other life

545
00:24:02,230 --> 00:24:06,548
forms part of the Curiosity rover

546
00:24:04,450 --> 00:24:08,590
mission is to search for water on Mars

547
00:24:06,548 --> 00:24:11,019
which could support the presence of life

548
00:24:08,589 --> 00:24:12,699
the zone surrounding a star which gives

549
00:24:11,019 --> 00:24:15,128
planet fit conditions which are just

550
00:24:12,700 --> 00:24:17,500
right for life is called the Goldilocks

551
00:24:15,128 --> 00:24:19,449
zone and one problem of searching for

552
00:24:17,500 --> 00:24:21,548
life in the universe is that life may

553
00:24:19,450 --> 00:24:23,710
exist in a form we don't recognize as

554
00:24:21,548 --> 00:24:26,288
being alive or in places we don't

555
00:24:23,710 --> 00:24:28,600
realize can even support life that's it

556
00:24:26,288 --> 00:24:30,190

for this week in science if you want to

557

00:24:28,599 --> 00:24:31,959

find out more about the search for life

558

00:24:30,190 --> 00:24:36,759

on other planets check out our website

559

00:24:31,960 --> 00:24:40,840

are I aus org a you where we have some

560

00:24:36,759 --> 00:24:43,808

links follow us on twitter at RI aus and

561

00:24:40,839 --> 00:24:45,158

like us on facebook i'm ben lewis and

562

00:24:43,808 --> 00:24:47,819

we'll catch you right back here next

563

00:24:45,159 --> 00:24:47,820

week

564

00:24:56,039 --> 00:25:01,889

in a world where the truth is a matter

565

00:25:04,190 --> 00:25:09,220

we're messages are a scene for beyond

566

00:25:12,130 --> 00:25:17,730

and reason is sidelined for magical

567

00:25:15,400 --> 00:25:17,730

thinking

568

00:25:18,169 --> 00:25:22,749

only three men stand between the truth

569

00:25:23,769 --> 00:25:29,239

what date is it 787 thing this is

570

00:25:27,528 --> 00:25:30,888

impressive if these are system present

571
00:25:29,239 --> 00:25:33,769
they're not their photographs of Chinese

572
00:25:30,888 --> 00:25:36,019
anthem it's not we are not worried sick

573
00:25:33,769 --> 00:25:37,669
is a good God we're fully don't discuss

574
00:25:36,019 --> 00:25:39,558
cryptozoology on the show very often

575
00:25:37,669 --> 00:25:42,049
because we don't know anything about how

576
00:25:39,558 --> 00:25:43,759
the truth the price gets lower and lower

577
00:25:42,048 --> 00:25:47,048
and lower and then he hits a ceiling

578
00:25:43,759 --> 00:25:47,048
it's a ceiling for the room below

579
00:25:47,349 --> 00:25:52,608
skeptic to the cave and Moses has gifted

580
00:25:49,788 --> 00:26:01,210
society find us on iTunes or you know

581
00:25:52,608 --> 00:26:04,720
don't here's main art spooky action at

582
00:26:01,210 --> 00:26:04,720
the distance

583
00:26:05,119 --> 00:26:09,329
well of course the big awards are being

584
00:26:07,380 --> 00:26:11,130
announced here in Simon you missed out

585
00:26:09,329 --> 00:26:13,500
on the bent spoon yet again you've never

586
00:26:11,130 --> 00:26:15,360
won at once now haven't but I know a lot

587
00:26:13,500 --> 00:26:18,509
of people who are really hanging out for

588
00:26:15,359 --> 00:26:21,359
it to go to Sarah Laurie from the war

589
00:26:18,509 --> 00:26:23,220
bruh foundation she's a really worthy

590
00:26:21,359 --> 00:26:25,558
recipient but wasn't to get it this year

591
00:26:23,220 --> 00:26:27,120
now now of course a look let's start

592
00:26:25,558 --> 00:26:28,528
backwards you just when you finished you

593
00:26:27,119 --> 00:26:30,629
said you're in a band you're going to

594
00:26:28,528 --> 00:26:32,308
donate some money to neglected cancers

595
00:26:30,630 --> 00:26:33,778
and you mentioned pancreatic cancers now

596
00:26:32,308 --> 00:26:35,190
what other ones would be in that in that

597
00:26:33,778 --> 00:26:36,690
area that people don't think as much

598
00:26:35,190 --> 00:26:38,940
because that they're not as generally

599

00:26:36,690 --> 00:26:41,070
effective look look there are a lot in

600
00:26:38,940 --> 00:26:42,630
fact if you add up all of the cancers

601
00:26:41,069 --> 00:26:45,000
that probably most people have never

602
00:26:42,630 --> 00:26:47,250
heard of collectively they would get

603
00:26:45,000 --> 00:26:49,259
certainly into the top five there are a

604
00:26:47,250 --> 00:26:52,109
lot of people who sort of will will have

605
00:26:49,259 --> 00:26:54,000
a you know a cancer of the eye or you

606
00:26:52,109 --> 00:26:55,528
know some sort of some part of the body

607
00:26:54,000 --> 00:26:57,089
that you know you haven't got a big

608
00:26:55,528 --> 00:27:00,179
group of people who are collecting money

609
00:26:57,089 --> 00:27:01,648
for it and often they're not a lot of

610
00:27:00,179 --> 00:27:03,528
people suffering from that particular

611
00:27:01,648 --> 00:27:07,439
one but if you put them all together

612
00:27:03,528 --> 00:27:09,210
they are together very very neglected I

613
00:27:07,440 --> 00:27:10,980

think it's a very interesting one to be

614

00:27:09,210 --> 00:27:12,630

raising money born and it's good it also

615

00:27:10,980 --> 00:27:14,038

a bit difficult to because it's a group

616

00:27:12,630 --> 00:27:15,450

you can't mention one everyone like

617

00:27:14,038 --> 00:27:17,250

pulls at the heartstrings straight away

618

00:27:15,450 --> 00:27:19,528

that's a problem of this yet it is here

619

00:27:17,250 --> 00:27:21,690

I mean some of the childhood cancers

620

00:27:19,528 --> 00:27:23,940

fall into that category

621

00:27:21,690 --> 00:27:25,769

you know the pancreatic cancer which are

622

00:27:23,940 --> 00:27:27,600

named tonight is actually a very

623

00:27:25,769 --> 00:27:30,000

prevalent cancer and one of the most

624

00:27:27,599 --> 00:27:32,730

rapidly fatal and which we have very

625

00:27:30,000 --> 00:27:35,398

very little answer for so that that is

626

00:27:32,730 --> 00:27:37,200

one that's you know I think affects a

627

00:27:35,398 --> 00:27:39,089

lot of people but very few people have

628
00:27:37,200 --> 00:27:41,730
heard of it bowel cancer is quite

629
00:27:39,089 --> 00:27:44,250
neglected because unlike a lot of the

630
00:27:41,730 --> 00:27:46,259
other cancers if you've got you know if

631
00:27:44,250 --> 00:27:48,028
a colostomy bag and you're a celebrity

632
00:27:46,259 --> 00:27:49,829
or something you're probably not likely

633
00:27:48,028 --> 00:27:51,599
to go out and saying you know look I've

634
00:27:49,829 --> 00:27:55,648
got this is the problem i suffer from

635
00:27:51,599 --> 00:27:57,048
it's it's a messy unfortunate cancer but

636
00:27:55,648 --> 00:27:59,308
it's one what we can do a lot about

637
00:27:57,048 --> 00:28:00,869
we'll look at goes it out tell everyone

638
00:27:59,308 --> 00:28:02,250
what you got your award tonight and what

639
00:28:00,869 --> 00:28:06,258
do you think pushed you over the edge to

640
00:28:02,250 --> 00:28:08,548
get it tonight look I've no idea but I

641
00:28:06,259 --> 00:28:12,120
sometimes have to pinch myself at work

642
00:28:08,548 --> 00:28:14,668
you know to think that I go to work get

643
00:28:12,119 --> 00:28:17,428
paid as professor of Public Health to be

644
00:28:14,669 --> 00:28:20,070
able to look into some of this lunacy

645
00:28:17,429 --> 00:28:22,740
that's out there in public health we we

646
00:28:20,069 --> 00:28:24,028
we try to sort of get people concerned

647
00:28:22,740 --> 00:28:25,279
about things that they should be

648
00:28:24,028 --> 00:28:26,990
concerned about

649
00:28:25,279 --> 00:28:28,309
and less concerned about things that

650
00:28:26,990 --> 00:28:30,980
they shouldn't be concerned about now

651
00:28:28,309 --> 00:28:33,289
first got into this area about 15 years

652
00:28:30,980 --> 00:28:34,849
ago with mobile telephone towers which

653
00:28:33,289 --> 00:28:36,409
everyone a lot of not everyone a lot of

654
00:28:34,849 --> 00:28:39,919
people were saying all they could cause

655
00:28:36,410 --> 00:28:43,070
all sorts of scary things that turned

656

00:28:39,920 --> 00:28:45,350
out not to be true but with wind

657
00:28:43,069 --> 00:28:47,149
turbines you know this is this started

658
00:28:45,349 --> 00:28:49,639
happening about five or six years ago

659
00:28:47,150 --> 00:28:51,590
all the scare stuff about it and the

660
00:28:49,640 --> 00:28:53,630
more and more I looked into it the less

661
00:28:51,589 --> 00:28:55,459
and less I could see that there was any

662
00:28:53,630 --> 00:28:59,150
substance to it and so I've been doing

663
00:28:55,460 --> 00:29:00,920
my best to try and really talk talk

664
00:28:59,150 --> 00:29:03,259
about this issue about the naseebo

665
00:29:00,920 --> 00:29:05,150
effect we've all heard of the placebo

666
00:29:03,259 --> 00:29:06,559
effect which is where you know someone

667
00:29:05,150 --> 00:29:08,810
says look take this it'll be good for

668
00:29:06,559 --> 00:29:11,809
you naseebo fix the opposite like all

669
00:29:08,809 --> 00:29:13,519
this might harm you I'm telling you to

670
00:29:11,809 --> 00:29:15,440

be you know be on your on your guard

671

00:29:13,519 --> 00:29:17,690

because this might harm you and I think

672

00:29:15,440 --> 00:29:19,370

that's what's operational here now as

673

00:29:17,690 --> 00:29:21,410

someone who's involved in public he'll

674

00:29:19,369 --> 00:29:24,049

do you think and policy do you think

675

00:29:21,410 --> 00:29:26,240

there's any place for balancing public

676

00:29:24,049 --> 00:29:27,740

health and libertarian concerns or it

677

00:29:26,240 --> 00:29:31,309

shouldn't those should be public help

678

00:29:27,740 --> 00:29:33,529

all the way no look I'm most well-known

679

00:29:31,309 --> 00:29:36,710

from the work that I do in in tobacco

680

00:29:33,529 --> 00:29:37,789

control but I probably surprised you've

681

00:29:36,710 --> 00:29:40,670

got a lot of people listening to this

682

00:29:37,789 --> 00:29:42,170

see if I say that you have a cigarette

683

00:29:40,670 --> 00:29:44,330

in your hand right now I know every

684

00:29:42,170 --> 00:29:46,519

surprised about a great but for example

685
00:29:44,329 --> 00:29:48,500
I was on the the Senate of the

686
00:29:46,519 --> 00:29:50,480
University of Sydney for for two terms

687
00:29:48,500 --> 00:29:53,390
and I was one of the people who actually

688
00:29:50,480 --> 00:29:54,940
opposed the campus going totally

689
00:29:53,390 --> 00:29:56,800
smoke-free

690
00:29:54,940 --> 00:29:59,019
and now I've got no problem about it

691
00:29:56,799 --> 00:30:01,029
going smoke-free indoors and it has been

692
00:29:59,019 --> 00:30:03,490
for many years but but outdoors the

693
00:30:01,029 --> 00:30:06,519
evidence is actually very very poor that

694
00:30:03,490 --> 00:30:07,960
someone's smoking say on an oval or in a

695
00:30:06,519 --> 00:30:09,339
boulevard is actually going to be

696
00:30:07,960 --> 00:30:12,009
harmful to other people the evidence

697
00:30:09,339 --> 00:30:14,769
isn't there and so I I sort of said

698
00:30:12,009 --> 00:30:17,829
we'll hang on a second it had been nice

699
00:30:14,769 --> 00:30:20,170
you know perhaps if it was that evidence

700
00:30:17,829 --> 00:30:22,210
but there isn't so we really can't push

701
00:30:20,170 --> 00:30:23,440
that boundary and a few people shook

702
00:30:22,210 --> 00:30:24,730
their heads and said well you know we

703
00:30:23,440 --> 00:30:26,980
could have got this through if you'd

704
00:30:24,730 --> 00:30:29,289
supported it but as it as it turns out

705
00:30:26,980 --> 00:30:31,569
that now the campus is just that all

706
00:30:29,289 --> 00:30:32,619
smoke free except for a few smoking

707
00:30:31,569 --> 00:30:35,470
areas and I think that's a good

708
00:30:32,619 --> 00:30:37,389
compromise what about the everyone goes

709
00:30:35,470 --> 00:30:38,620
on about you know if alcohol was good to

710
00:30:37,390 --> 00:30:40,660
become something new today it would

711
00:30:38,619 --> 00:30:42,009
never get past that sort of thing how

712
00:30:40,660 --> 00:30:46,529
many times you heard that kind of thing

713

00:30:42,009 --> 00:30:50,379
said yeah look at our alcohol is a huge

714
00:30:46,529 --> 00:30:51,240
public health problem but unlike tobacco

715
00:30:50,380 --> 00:30:53,370
where

716
00:30:51,240 --> 00:30:55,170
I bless them and cotton socks on us I

717
00:30:53,369 --> 00:30:56,819
decided to specialize in that area

718
00:30:55,170 --> 00:30:59,730
because there's really nothing good to

719
00:30:56,819 --> 00:31:02,220
be said about tobacco alcohol does

720
00:30:59,730 --> 00:31:04,230
brings tobacco got any beneficial things

721
00:31:02,220 --> 00:31:06,120
as relaxing people as a smoke or is it

722
00:31:04,230 --> 00:31:08,009
completely over times better but it

723
00:31:06,119 --> 00:31:10,739
doesn't have a monopoly on that you know

724
00:31:08,009 --> 00:31:12,390
I mean it you know cup of tea the idea

725
00:31:10,740 --> 00:31:13,980
that you know or will you it would be a

726
00:31:12,390 --> 00:31:15,990
good idea to if you want to relax to

727
00:31:13,980 --> 00:31:17,009

take up smoking is just a ridiculous you

728

00:31:15,990 --> 00:31:19,019

know because there's so many other ways

729

00:31:17,009 --> 00:31:22,109

that you can relax but without with

730

00:31:19,019 --> 00:31:24,240

alcohol I'm and I think we see you know

731

00:31:22,109 --> 00:31:26,729

meant most people who do drink alcohol

732

00:31:24,240 --> 00:31:28,859

don't get into any trouble with it the

733

00:31:26,730 --> 00:31:30,569

either themselves and they don't harm

734

00:31:28,859 --> 00:31:32,399

society either they drink responsibly

735

00:31:30,569 --> 00:31:34,500

and I think that's a very important

736

00:31:32,400 --> 00:31:36,179

message and now what do you think is the

737

00:31:34,500 --> 00:31:37,769

next big challenge then I mean obviously

738

00:31:36,179 --> 00:31:39,240

I can see yourselves you're going to

739

00:31:37,769 --> 00:31:40,500

strap this off to a wind turbine and

740

00:31:39,240 --> 00:31:42,750

gets spun around to prove they are

741

00:31:40,500 --> 00:31:44,429

completely safe I look the biggest

742
00:31:42,750 --> 00:31:48,450
challenge I think that we face in public

743
00:31:44,429 --> 00:31:51,090
health is the challenge of convincing

744
00:31:48,450 --> 00:31:54,090
the world that they really need to take

745
00:31:51,089 --> 00:31:56,129
global warming very very seriously as

746
00:31:54,089 --> 00:31:58,409
depressed as a lot of people are about

747
00:31:56,130 --> 00:32:01,110
the state of this country is a debate

748
00:31:58,410 --> 00:32:07,200
about this at the moment and the erosion

749
00:32:01,109 --> 00:32:09,000
of I guess the the credibility of the

750
00:32:07,200 --> 00:32:10,440
sort of the whole science because of the

751
00:32:09,000 --> 00:32:12,329
spin doctoring and the media

752
00:32:10,440 --> 00:32:14,190
concentration which has been sort of

753
00:32:12,329 --> 00:32:16,319
ganging up against it I think is a

754
00:32:14,190 --> 00:32:18,000
really really big challenge for all of

755
00:32:16,319 --> 00:32:20,039
us who are working in science to turn

756
00:32:18,000 --> 00:32:21,329
and really turn that around you think

757
00:32:20,039 --> 00:32:22,829
you've got the same problems with the

758
00:32:21,329 --> 00:32:25,139
anti-vaccination movement where you have

759
00:32:22,829 --> 00:32:27,480
someone who has credentials and usually

760
00:32:25,140 --> 00:32:30,059
up against them is not so much yeah

761
00:32:27,480 --> 00:32:32,039
that's right I mean you know it's been

762
00:32:30,058 --> 00:32:33,960
said many times that I'll say it again

763
00:32:32,039 --> 00:32:37,470
as worth saying that if you went along

764
00:32:33,960 --> 00:32:39,150
to a doctor and the doctor said do it

765
00:32:37,470 --> 00:32:41,429
along to 99 doctors and they said yes

766
00:32:39,150 --> 00:32:43,019
you do have a cancer you need to you

767
00:32:41,429 --> 00:32:45,720
know we need to operate on this you went

768
00:32:43,019 --> 00:32:46,920
along to one is it well no you don't you

769
00:32:45,720 --> 00:32:48,900
know what sort of person would sort of

770

00:32:46,920 --> 00:32:50,820
go with the one you know and that's the

771
00:32:48,900 --> 00:32:53,009
situation we have with global warming

772
00:32:50,819 --> 00:32:55,200
climate change that we have the

773
00:32:53,009 --> 00:32:57,660
overwhelming proportion of scientists

774
00:32:55,200 --> 00:32:58,920
who say that this is a big problem and

775
00:32:57,660 --> 00:33:00,840
we need to do something about it

776
00:32:58,920 --> 00:33:02,640
congratulations on your would imagine a

777
00:33:00,839 --> 00:33:03,869
bar tab goes with this does it or you

778
00:33:02,640 --> 00:33:06,720
know something that's public health

779
00:33:03,869 --> 00:33:08,339
friendly well I don't know I haven't had

780
00:33:06,720 --> 00:33:10,919
that pleasure yet but I'm looking

781
00:33:08,339 --> 00:33:12,389
forward to look at congratulations once

782
00:33:10,919 --> 00:33:15,300
again and thank you for your work thanks

783
00:33:12,390 --> 00:33:18,480
a lot I've just been wandering aimlessly

784
00:33:15,299 --> 00:33:20,460

through the the vaults and areas and car

785

00:33:18,480 --> 00:33:21,808
parks of the anu which is what i'll

786

00:33:20,460 --> 00:33:23,279
usually like to do at this time on

787

00:33:21,808 --> 00:33:24,960
sunday anyway but this time I've been

788

00:33:23,279 --> 00:33:27,000
doing it with a mission who we got here

789

00:33:24,960 --> 00:33:29,100
hi I'm Chris Kennedy I'm the director of

790

00:33:27,000 --> 00:33:30,450
the CSIRO Discovery Center and you've

791

00:33:29,099 --> 00:33:32,339
got a great discovery center there we've

792

00:33:30,450 --> 00:33:34,110
been playing in it all weekend they're

793

00:33:32,339 --> 00:33:35,579
very good very hands-on very fun yeah

794

00:33:34,109 --> 00:33:38,459
and it's really difficult to break as

795

00:33:35,579 --> 00:33:39,928
well it's childproof no nothing is

796

00:33:38,460 --> 00:33:42,029
childproof of a child can work out how

797

00:33:39,929 --> 00:33:43,590
to break something they will do it and

798

00:33:42,029 --> 00:33:45,480
now we're here in the area the way the

799
00:33:43,589 --> 00:33:47,519
kids aren't normally allowed and we're

800
00:33:45,480 --> 00:33:50,190
in front of this beautiful mural that

801
00:33:47,519 --> 00:33:52,319
dates back to the early 60s and it's

802
00:33:50,190 --> 00:33:54,210
about science and the history of it

803
00:33:52,319 --> 00:33:56,159
please explain in this beautiful mural

804
00:33:54,210 --> 00:33:58,799
that not many people get to see yeah so

805
00:33:56,160 --> 00:34:00,570
we're in the foyer of CSIRO land

806
00:33:58,799 --> 00:34:02,609
water laboratory which was built in

807
00:34:00,569 --> 00:34:05,429
nineteen sixty three and the wall that

808
00:34:02,609 --> 00:34:10,769
we're standing in front of went up first

809
00:34:05,430 --> 00:34:13,619
it's about a 66 x 2 meter wall and yeah

810
00:34:10,769 --> 00:34:15,750
so that while this artist that was

811
00:34:13,619 --> 00:34:17,940
commissioned to work on it worked across

812
00:34:15,750 --> 00:34:19,590
the year they built the laboratory

813
00:34:17,940 --> 00:34:21,119
around him so these great photos of him

814
00:34:19,590 --> 00:34:23,429
you know when his raincoat or in the

815
00:34:21,119 --> 00:34:27,509
Canberra free freezing cold in winter in

816
00:34:23,429 --> 00:34:29,880
Canberra in 1963 this mural it's a mural

817
00:34:27,510 --> 00:34:31,440
it's called the land research mural and

818
00:34:29,880 --> 00:34:34,920
it was commissioned by ian clooney's

819
00:34:31,440 --> 00:34:36,360
ross to communicate the kind of work

820
00:34:34,920 --> 00:34:40,440
that was going to be done out of this

821
00:34:36,360 --> 00:34:43,170
laboratory and these are the laboratory

822
00:34:40,440 --> 00:34:45,960
in 1963 although it's changed purpose

823
00:34:43,170 --> 00:34:47,760
over the years was looking at some

824
00:34:45,960 --> 00:34:50,190
finding production productive

825
00:34:47,760 --> 00:34:52,320
agricultural land in Australia in that

826
00:34:50,190 --> 00:34:55,500
kind of post-war years populations

827

00:34:52,320 --> 00:34:56,970
rapidly growing how are we going to feed

828
00:34:55,500 --> 00:34:59,219
these people where are we going to move

829
00:34:56,969 --> 00:35:02,879
them to so these guys did the very first

830
00:34:59,219 --> 00:35:04,559
old river feasibility studies etc opened

831
00:35:02,880 --> 00:35:06,890
up a lot of that kind of you know back

832
00:35:04,559 --> 00:35:10,909
of Bourke literally back of Bourke land

833
00:35:06,889 --> 00:35:14,219
and so the artist is Robert in pen and

834
00:35:10,909 --> 00:35:16,710
he became a lot more famous afterwards

835
00:35:14,219 --> 00:35:19,859
at the I mean he's still alive he's in

836
00:35:16,710 --> 00:35:23,490
his eighties he does children's books he

837
00:35:19,860 --> 00:35:26,010
died Peter Pan came out this year and he

838
00:35:23,489 --> 00:35:28,589
designed the Northern Territory flag he

839
00:35:26,010 --> 00:35:30,450
and some chums from sorrow at that time

840
00:35:28,590 --> 00:35:34,050
started the Australian Conservation

841
00:35:30,449 --> 00:35:36,659

Foundation but as you can see i'm sorry

842

00:35:34,050 --> 00:35:38,789
view her listeners a beautiful

843

00:35:36,659 --> 00:35:41,190
illustrator so this is a watercolor

844

00:35:38,789 --> 00:35:45,349
mural and he actually came back last

845

00:35:41,190 --> 00:35:45,349
year and did some touch-ups fixed a few

846

00:35:46,130 --> 00:35:50,130
crumbling bits of the mural those yolks

847

00:35:48,750 --> 00:35:52,289
now was this originally designed to be

848

00:35:50,130 --> 00:35:53,820
outdoors it was an outdoor mural or not

849

00:35:52,289 --> 00:35:55,650
and it was always meant for the foyer

850

00:35:53,820 --> 00:35:57,480
and that's why the color has been so

851

00:35:55,650 --> 00:35:59,400
well preserved over the years a very

852

00:35:57,480 --> 00:36:03,389
vibrant kind of blues and reds and

853

00:35:59,400 --> 00:36:07,019
oranges throughout and so in this kind

854

00:36:03,389 --> 00:36:09,900
of swirling pattern he has he's telling

855

00:36:07,019 --> 00:36:11,929
the story of the evolution of us of

856
00:36:09,900 --> 00:36:14,750
scientific thought of agri

857
00:36:11,929 --> 00:36:18,859
cultural thought so what we have over

858
00:36:14,750 --> 00:36:22,010
here is kind of the history of evolution

859
00:36:18,860 --> 00:36:23,960
of botany the evolution of the species

860
00:36:22,010 --> 00:36:27,010
there's a trilobite and we're going up

861
00:36:23,960 --> 00:36:30,820
to man and then his agricultural

862
00:36:27,010 --> 00:36:33,560
productivity from you know very early

863
00:36:30,820 --> 00:36:36,019
kind of beginning of settlement farming

864
00:36:33,559 --> 00:36:39,230
through to contemporary farming there's

865
00:36:36,019 --> 00:36:41,840
crop rotation yeah and also very

866
00:36:39,230 --> 00:36:44,210
interestingly as we kind of segue

867
00:36:41,840 --> 00:36:48,559
through the development of the farm here

868
00:36:44,210 --> 00:36:49,789
in 1963 is his computer he's so what we

869
00:36:48,559 --> 00:36:53,210
were looking at is really just a whole

870
00:36:49,789 --> 00:36:55,190
bunch of wires in a grid but this is his

871
00:36:53,210 --> 00:36:57,110
idea of that the future of farming is

872
00:36:55,190 --> 00:36:59,720
the computer so he was very uh you know

873
00:36:57,110 --> 00:37:01,640
aware of what was going on in 1963 it's

874
00:36:59,719 --> 00:37:04,579
also a bit fascist because you'll notice

875
00:37:01,639 --> 00:37:08,059
them he has this very idealized man at

876
00:37:04,579 --> 00:37:11,809
the end and and the entire purpose of

877
00:37:08,059 --> 00:37:14,539
his mural is population sustainability

878
00:37:11,809 --> 00:37:16,789
that's the question oh okay I don't see

879
00:37:14,539 --> 00:37:18,559
a lot of indigenous population reflected

880
00:37:16,789 --> 00:37:21,469
in the mural either no not particularly

881
00:37:18,559 --> 00:37:25,340
but what's fought for us this weekend

882
00:37:21,469 --> 00:37:28,879
it's the 24th of November now so 50

883
00:37:25,340 --> 00:37:31,309
years and one day ago Robert incan was

884

00:37:28,880 --> 00:37:33,349
working on this mural he was painting

885
00:37:31,309 --> 00:37:35,869
this section that looks at um history of

886
00:37:33,349 --> 00:37:38,599
mankind he just painted the atomic bomb

887
00:37:35,869 --> 00:37:40,039
and the skull and someone came running

888
00:37:38,599 --> 00:37:41,929
up from Bruce College across the road

889
00:37:40,039 --> 00:37:43,340
where he had been staying to tell him

890
00:37:41,929 --> 00:37:46,309
that President Kennedy had been

891
00:37:43,340 --> 00:37:48,440
assassinated so mr. Inkpen painted a

892
00:37:46,309 --> 00:37:50,779
black border around the American flag he

893
00:37:48,440 --> 00:37:54,860
drew the president's car and then they

894
00:37:50,780 --> 00:37:56,300
went to the pub Wow and there it is I

895
00:37:54,860 --> 00:37:58,400
was because you mentioned it earlier

896
00:37:56,300 --> 00:38:00,620
it's just in there as a little snippet

897
00:37:58,400 --> 00:38:03,410
in history it starts as gorgeous its

898
00:38:00,619 --> 00:38:05,900

tear tingling and he's been back and

899

00:38:03,409 --> 00:38:08,269

told me the story personally I it's very

900

00:38:05,900 --> 00:38:11,150

exciting an exciting piece of artwork

901

00:38:08,269 --> 00:38:13,610

that no one gets to say very iconic and

902

00:38:11,150 --> 00:38:14,840

important I think Richard Saunders is

903

00:38:13,610 --> 00:38:15,890

just you as well having a look at it

904

00:38:14,840 --> 00:38:18,079

there this is the first time you've seen

905

00:38:15,889 --> 00:38:19,730

this Richard ESO heard about this but

906

00:38:18,079 --> 00:38:21,679

it's marvelous to have a look at it

907

00:38:19,730 --> 00:38:23,690

colors are the details and the colors

908

00:38:21,679 --> 00:38:25,129

are so vivid aren't they and the more

909

00:38:23,690 --> 00:38:27,920

you look at it the more there is to see

910

00:38:25,130 --> 00:38:31,400

now what is it about 34 meters across by

911

00:38:27,920 --> 00:38:33,079

maybe a meter and a half up so it's not

912

00:38:31,400 --> 00:38:35,180

a small piece of work but it's so

913
00:38:33,079 --> 00:38:37,519
complicated I think you could study this

914
00:38:35,179 --> 00:38:38,868
for hours yeah I think you'd have to get

915
00:38:37,519 --> 00:38:40,519
a shot of this to put up online so

916
00:38:38,869 --> 00:38:41,690
people can have it have at least a bit

917
00:38:40,519 --> 00:38:43,940
of an idea what we're talking about here

918
00:38:41,690 --> 00:38:45,440
visually under the ocean look at that if

919
00:38:43,940 --> 00:38:47,269
we look down it's all gone blue and

920
00:38:45,440 --> 00:38:49,190
there's lots of fish and also that's the

921
00:38:47,269 --> 00:38:52,130
evolution from the seat man there that

922
00:38:49,190 --> 00:38:53,780
bit Wow actually what's your favorite

923
00:38:52,130 --> 00:38:55,730
part apart that they had the dramatic

924
00:38:53,780 --> 00:38:57,320
bit with the assassination of Kennedy is

925
00:38:55,730 --> 00:38:58,820
it one that you go that's interesting

926
00:38:57,320 --> 00:39:02,300
people should look at that bit more well

927
00:38:58,820 --> 00:39:04,369
I'm Stein appears that this is I'm Stein

928
00:39:02,300 --> 00:39:06,140
with this i equals mc-squared building

929
00:39:04,369 --> 00:39:08,660
it up on a on a chalkboard is little

930
00:39:06,139 --> 00:39:10,190
table diesel yeah yeah I mean I like

931
00:39:08,659 --> 00:39:12,559
this kind of you know this almost

932
00:39:10,190 --> 00:39:15,679
steampunk um you know the wheels of

933
00:39:12,559 --> 00:39:19,940
society grinding them and turning around

934
00:39:15,679 --> 00:39:21,649
but I mean for me this this big

935
00:39:19,940 --> 00:39:25,670
scientific question that is trying to

936
00:39:21,650 --> 00:39:27,349
answer is the most exciting csiro did a

937
00:39:25,670 --> 00:39:29,780
number of studies over that kind of

938
00:39:27,349 --> 00:39:32,960
intervening 50 years in one day since he

939
00:39:29,780 --> 00:39:35,840
painted this and you know asking what is

940
00:39:32,960 --> 00:39:37,550
the ass sustainable population of a

941

00:39:35,840 --> 00:39:40,340
country like Australia obviously it

942
00:39:37,550 --> 00:39:41,630
changes and evolves a few years ago some

943
00:39:40,340 --> 00:39:44,450
of those studies were saying the number

944
00:39:41,630 --> 00:39:46,579
is something closer to 14 million of

945
00:39:44,449 --> 00:39:48,289
course we've gone way past that and so

946
00:39:46,579 --> 00:39:49,369
that's why you know the work that's

947
00:39:48,289 --> 00:39:52,250
being done in this building is so

948
00:39:49,369 --> 00:39:54,108
important because at technologies change

949
00:39:52,250 --> 00:39:57,349
to help us some change the answer to

950
00:39:54,108 --> 00:39:59,389
that question I think look and it's and

951
00:39:57,349 --> 00:40:00,799
also if you worked here you would tend

952
00:39:59,389 --> 00:40:02,449
to get used to it and walk past it

953
00:40:00,800 --> 00:40:03,859
almost every day but you seem to be in

954
00:40:02,449 --> 00:40:05,750
awe of it even though you do see they're

955
00:40:03,858 --> 00:40:08,269

fairly often III think it's beautiful in

956

00:40:05,750 --> 00:40:09,320

fact it's at one point in the 70s there

957

00:40:08,269 --> 00:40:10,639

so there's a little guard rail

958

00:40:09,320 --> 00:40:12,500

protecting it from people although

959

00:40:10,639 --> 00:40:16,219

people do tend to and use the guard rail

960

00:40:12,500 --> 00:40:18,949

to lean up on at one point in the 70s

961

00:40:16,219 --> 00:40:22,429

I'm told they talked about putting Mason

962

00:40:18,949 --> 00:40:24,108

I over it to protect it and you know in

963

00:40:22,429 --> 00:40:25,730

turning this area into an office which

964

00:40:24,108 --> 00:40:28,009

would have been a travesty it's lovely

965

00:40:25,730 --> 00:40:30,059

that are still around and so gorgeous I

966

00:40:28,010 --> 00:40:32,280

love that

967

00:40:30,059 --> 00:40:34,679

we're putting it behind a wall certainly

968

00:40:32,280 --> 00:40:36,450

would protect it well and truly but then

969

00:40:34,679 --> 00:40:39,269

it would then 10 years they don't might

970
00:40:36,449 --> 00:40:42,149
forget it's even there yeah what what I

971
00:40:39,269 --> 00:40:44,519
think is that inking pen talked about

972
00:40:42,150 --> 00:40:47,309
when he came up here he said this is

973
00:40:44,519 --> 00:40:50,550
kind of the original PowerPoint this the

974
00:40:47,309 --> 00:40:52,440
idea behind this was you know you had it

975
00:40:50,550 --> 00:40:54,120
in the 60s you have a client in your

976
00:40:52,440 --> 00:40:55,920
office you're trying to explain you know

977
00:40:54,119 --> 00:40:58,650
some agricultural technique or con

978
00:40:55,920 --> 00:41:00,840
scientific concept you know a pre

979
00:40:58,650 --> 00:41:02,820
computers drag them out into the foyer

980
00:41:00,840 --> 00:41:04,110
point to the mural let's talk about you

981
00:41:02,820 --> 00:41:06,930
know crop rotation let's talk about

982
00:41:04,110 --> 00:41:08,250
whatever yeah fascinating look thank you

983
00:41:06,929 --> 00:41:12,239
for showing is this this is a great

984
00:41:08,250 --> 00:41:13,800
thank you welcome because what I'd like

985
00:41:12,239 --> 00:41:15,389
to do it every convention is to get

986
00:41:13,800 --> 00:41:17,039
around and talk to the people that are

987
00:41:15,389 --> 00:41:18,509
presenting but also talk to the people

988
00:41:17,039 --> 00:41:21,539
that are just here to have a look around

989
00:41:18,510 --> 00:41:23,400
who we got danville arm and what's your

990
00:41:21,539 --> 00:41:25,289
interest here you're a longtime skeptic

991
00:41:23,400 --> 00:41:27,780
fellow traveler just a general

992
00:41:25,289 --> 00:41:31,259
troublemaker a general troublemaker for

993
00:41:27,780 --> 00:41:33,120
the anti Max's ah now that obviously is

994
00:41:31,260 --> 00:41:34,260
a passion that burns with you how did

995
00:41:33,119 --> 00:41:35,909
you get involved with it why did you

996
00:41:34,260 --> 00:41:39,600
decide okay I have to stand up and say

997
00:41:35,909 --> 00:41:41,909
something ah well that started in 2010

998

00:41:39,599 --> 00:41:44,969
when Meryl dori came to Perth and

999
00:41:41,909 --> 00:41:47,219
received a lot of media attention from

1000
00:41:44,969 --> 00:41:48,539
oh yes I remember that did she end up

1001
00:41:47,219 --> 00:41:49,889
resenting anywhere because she was at

1002
00:41:48,539 --> 00:41:52,469
one stage claiming that the Chi was

1003
00:41:49,889 --> 00:41:55,079
under threat and she did end up

1004
00:41:52,469 --> 00:41:56,730
resenting at the state library was at

1005
00:41:55,079 --> 00:41:59,219
the time this year was receiving a lot

1006
00:41:56,730 --> 00:42:01,980
of negative attention from the hatred

1007
00:41:59,219 --> 00:42:05,269
will see that recently revoked their

1008
00:42:01,980 --> 00:42:08,230
charity fundraising license

1009
00:42:05,269 --> 00:42:11,110
and that's when I first got involved and

1010
00:42:08,230 --> 00:42:14,000
yeah it all started from there and then

1011
00:42:11,110 --> 00:42:15,470
2012 she took out a court should try to

1012
00:42:14,000 --> 00:42:18,260

obtain a court order against myself

1013

00:42:15,469 --> 00:42:22,189

Peter bowditch and Daniel Rafael to

1014

00:42:18,260 --> 00:42:25,120

silence us on the internet which was

1015

00:42:22,190 --> 00:42:27,200

only resolved in august of this year

1016

00:42:25,119 --> 00:42:31,420

resulting in her paying the eleven

1017

00:42:27,199 --> 00:42:34,159

thousand dollars in my legal expenses so

1018

00:42:31,420 --> 00:42:37,309

has this in any way slowed you down in

1019

00:42:34,159 --> 00:42:39,399

your activism I know if anything the

1020

00:42:37,309 --> 00:42:41,719

fact that she's trying to silence

1021

00:42:39,400 --> 00:42:43,340

science myself and the others it just

1022

00:42:41,719 --> 00:42:45,199

shows that we are eventually getting to

1023

00:42:43,340 --> 00:42:49,850

her and having an effect on her

1024

00:42:45,199 --> 00:42:51,079

organization I endo out have you admit

1025

00:42:49,849 --> 00:42:53,569

the woman have you ever actually had a

1026

00:42:51,079 --> 00:42:56,420

chance to have a ever word with her at

1027
00:42:53,570 --> 00:42:59,690
all no I've only ever once been in the

1028
00:42:56,420 --> 00:43:03,470
same building as her which was during

1029
00:42:59,690 --> 00:43:04,639
her seminar in 2010 hmm and what did you

1030
00:43:03,469 --> 00:43:06,289
make of the seminar you were there

1031
00:43:04,639 --> 00:43:08,239
obviously taking notes and now did you

1032
00:43:06,289 --> 00:43:09,619
uh did you stand up and say anything a

1033
00:43:08,239 --> 00:43:11,989
time put your hand up or anything at the

1034
00:43:09,619 --> 00:43:14,119
question time at the end was it I know

1035
00:43:11,989 --> 00:43:17,839
at that point I just left there's only

1036
00:43:14,119 --> 00:43:19,519
so much of dori there at one can take so

1037
00:43:17,840 --> 00:43:21,320
what are you looking at next is it some

1038
00:43:19,519 --> 00:43:22,909
other other issue on the net that you

1039
00:43:21,320 --> 00:43:24,110
feel like you might like to take on I

1040
00:43:22,909 --> 00:43:25,579
mean you've been a bit of a bit of a

1041
00:43:24,110 --> 00:43:26,900
single issue so far and I can certainly

1042
00:43:25,579 --> 00:43:28,610
understand you're concentrating on that

1043
00:43:26,900 --> 00:43:31,610
but I want to spread your wings a little

1044
00:43:28,610 --> 00:43:34,220
bit yes I homeopathy continues to be a

1045
00:43:31,610 --> 00:43:36,410
problem and nobody sees the major

1046
00:43:34,219 --> 00:43:38,089
problem with it it's people just

1047
00:43:36,409 --> 00:43:39,889
hydrating themselves if indeed there is

1048
00:43:38,090 --> 00:43:41,480
nothing in there they're just having a

1049
00:43:39,889 --> 00:43:45,739
drink of water basically aren't they I

1050
00:43:41,480 --> 00:43:48,710
know it's when someone such as Francine

1051
00:43:45,739 --> 00:43:50,899
sprayin in Perth convinces one of their

1052
00:43:48,710 --> 00:43:52,849
patient or their victims to give up

1053
00:43:50,900 --> 00:43:54,889
conventional cancer treatment in favor

1054
00:43:52,849 --> 00:43:57,579
of sugar pills and then the patient

1055

00:43:54,889 --> 00:43:59,679
ultimately dies as a result

1056
00:43:57,579 --> 00:44:02,619
and what is the main way you want to act

1057
00:43:59,679 --> 00:44:05,829
against that I haven't decided what the

1058
00:44:02,619 --> 00:44:08,529
best approach for this one is yet yeah

1059
00:44:05,829 --> 00:44:11,170
and it is a central forum is it asserts

1060
00:44:08,530 --> 00:44:14,710
is the organization similarly based to

1061
00:44:11,170 --> 00:44:16,900
the avn I know home you know they do

1062
00:44:14,710 --> 00:44:19,019
have a homeopathic Association but they

1063
00:44:16,900 --> 00:44:21,190
seem to be much more independently

1064
00:44:19,019 --> 00:44:24,309
operating than the anti-vaxxers which

1065
00:44:21,190 --> 00:44:25,210
makes it harder to target okay well I

1066
00:44:24,309 --> 00:44:26,469
think we'll be talking to you about

1067
00:44:25,210 --> 00:44:29,230
something like this at next year's

1068
00:44:26,469 --> 00:44:33,089
conference I feel yes hopefully there'll

1069
00:44:29,230 --> 00:44:33,090

be some progress on homeopathy

1070

00:44:47,809 --> 00:44:51,960

hey this is Jay novella from the

1071

00:44:50,340 --> 00:44:53,880

skeptics guide to the universe podcast

1072

00:44:51,960 --> 00:44:55,740

did you know that there are thousands of

1073

00:44:53,880 --> 00:44:57,450

skeptical reports interviews and

1074

00:44:55,739 --> 00:45:00,179

investigations going back to nineteen

1075

00:44:57,449 --> 00:45:03,419

eighty one free to download just visit w

1076

00:45:00,179 --> 00:45:05,339

WC optics com a you click the

1077

00:45:03,420 --> 00:45:07,320

publications link and enjoy almost every

1078

00:45:05,340 --> 00:45:09,269

back issue of the skeptic the journal

1079

00:45:07,320 --> 00:45:10,830

from Australian skeptics you can also

1080

00:45:09,269 --> 00:45:13,110

subscribe online and get the latest

1081

00:45:10,829 --> 00:45:15,119

digital or hard copy of this the world's

1082

00:45:13,110 --> 00:45:18,809

second oldest skeptical magazine that's

1083

00:45:15,119 --> 00:45:22,069

ww skeptics Comte you or just google

1084
00:45:18,809 --> 00:45:22,070
Australian skeptics

1085
00:45:35,000 --> 00:45:41,369
thank you for listening to the skeptic

1086
00:45:37,380 --> 00:45:44,910
zone on this hot day in Sydney and

1087
00:45:41,369 --> 00:45:46,769
around Australia I'm just having a look

1088
00:45:44,909 --> 00:45:49,500
over to the corner there the TV's got

1089
00:45:46,769 --> 00:45:52,219
the news on Victorian fires emergency

1090
00:45:49,500 --> 00:45:54,750
warnings going on right now as I speak

1091
00:45:52,219 --> 00:45:56,848
coming up on the skeptic zone in the

1092
00:45:54,750 --> 00:45:58,739
coming weeks even more from Maynard at

1093
00:45:56,849 --> 00:46:02,970
the National Convention with more

1094
00:45:58,739 --> 00:46:05,639
insights and interviews Wow I mean I

1095
00:46:02,969 --> 00:46:07,289
knew he was busy at the time my friends

1096
00:46:05,639 --> 00:46:08,730
but when I looked down a list of

1097
00:46:07,289 --> 00:46:10,079
interviews he's actually given me it's

1098
00:46:08,730 --> 00:46:12,599
staggering I don't think he actually

1099
00:46:10,079 --> 00:46:14,880
made it to bed at all he must have been

1100
00:46:12,599 --> 00:46:16,130
up all night in doing people and again

1101
00:46:14,880 --> 00:46:18,210
thank you to all the people who

1102
00:46:16,130 --> 00:46:20,010
sponsored Maynard chipped in a little

1103
00:46:18,210 --> 00:46:22,050
bit of money to cover his costs in

1104
00:46:20,010 --> 00:46:26,040
Melbourne was fantastic a great use of

1105
00:46:22,050 --> 00:46:27,269
your contribution as you now know over

1106
00:46:26,039 --> 00:46:29,219
the weeks and weeks of wonderful

1107
00:46:27,269 --> 00:46:32,699
interviews from Maynard Thank You

1108
00:46:29,219 --> 00:46:36,269
Maynard and if you want to help produce

1109
00:46:32,699 --> 00:46:38,909
the skeptic zone just go to [www skeptics](http://www.skeptics)

1110
00:46:36,269 --> 00:46:41,820
own TV at the top there's a link and for

1111
00:46:38,909 --> 00:46:44,789
just 99 cents a week you can really help

1112

00:46:41,820 --> 00:46:47,220
our the skeptic zone via micro payments

1113
00:46:44,789 --> 00:46:51,809
with paypal well it's time for me to

1114
00:46:47,219 --> 00:46:54,629
have another slug of this ice water it's

1115
00:46:51,809 --> 00:46:56,759
disappearing fast and I'll look forward

1116
00:46:54,630 --> 00:46:58,710
to your company next week on the

1117
00:46:56,760 --> 00:47:01,890
skipping zone but for now this is

1118
00:46:58,710 --> 00:47:08,550
Richard Saunders signing off from a very

1119
00:47:01,889 --> 00:47:11,129
hot and steamy Sydney Australia you've

1120
00:47:08,550 --> 00:47:15,960
been listening to the skeptic zone

1121
00:47:11,130 --> 00:47:19,019
visit our website at www.skeptics.org on TV

1122
00:47:15,960 --> 00:47:21,679
the comments contacts and extra video

1123
00:47:19,019 --> 00:47:21,679
reports