

**The Skeptic Zone**  
**Show 274 - 17 Jan 2014**



**Susan Gerbic**

1  
00:00:22,350 --> 00:00:09,080  
welcome to the skeptic zone the podcast

2  
00:00:28,630 --> 00:00:25,000  
hello and welcome to the skeptics iron

3  
00:00:31,570 --> 00:00:28,640  
episode number 274 for the 17th of

4  
00:00:34,390 --> 00:00:31,580  
january 2014 Richard Saunders here with

5  
00:00:37,210 --> 00:00:34,400  
you from Sydney Australia which is one

6  
00:00:40,299 --> 00:00:37,220  
of the few places in Australia not

7  
00:00:42,850 --> 00:00:40,309  
really getting the full horror of the

8  
00:00:44,470 --> 00:00:42,860  
current heat wave and my thoughts go out

9  
00:00:47,350 --> 00:00:44,480  
to those people in South Australia and

10  
00:00:51,460 --> 00:00:47,360  
Victoria and as I speak there are people

11  
00:00:53,170 --> 00:00:51,470  
in Victoria being told to batten down

12  
00:00:54,460 --> 00:00:53,180  
the hatches don't leave their homes

13  
00:00:56,439 --> 00:00:54,470

because it's too late the fires

14

00:00:59,549 --> 00:00:56,449

approaching it's not a good situation my

15

00:01:01,509 --> 00:00:59,559

friends you may wish to check your news

16

00:01:03,610 --> 00:01:01,519

resources on the internet to see what

17

00:01:06,940 --> 00:01:03,620

the fire situation is in Australia it's

18

00:01:09,310 --> 00:01:06,950

been bloody hot but what's coming up on

19

00:01:11,920 --> 00:01:09,320

this week's episode of the skeptic zone

20

00:01:14,050 --> 00:01:11,930

I catch up to a very dear old friend of

21

00:01:18,070 --> 00:01:14,060

mine Susan go back from the guerrilla

22

00:01:20,980 --> 00:01:18,080

skepticism outreach program initiative

23

00:01:23,980 --> 00:01:20,990

oh it's so fun it's so nice to see Susan

24

00:01:27,040 --> 00:01:23,990

at the amazing meetings in a Las Vegas

25

00:01:31,900 --> 00:01:27,050

from time to time she's always so happy

26

00:01:34,300 --> 00:01:31,910

and friendly and so enthusiastic so

27

00:01:37,180 --> 00:01:34,310

enthusiastic and keen to do things she's

28

00:01:39,340 --> 00:01:37,190

a real inspiration Susan's going to tell

29

00:01:41,350 --> 00:01:39,350

us all about the current state of a

30

00:01:43,660 --> 00:01:41,360

guerrilla skepticism and what you can do

31

00:01:48,250 --> 00:01:43,670

to help and also we're going to discuss

32

00:01:50,830 --> 00:01:48,260

her approach her journey if you want to

33

00:01:53,980 --> 00:01:50,840

use that terminology through her recent

34

00:01:56,380 --> 00:01:53,990

breast cancer treatment resulting in her

35

00:01:59,190 --> 00:01:56,390

loss of hair and how she's dealt with

36

00:02:01,450 --> 00:01:59,200

that again Susan we are an inspiration

37

00:02:02,680 --> 00:02:01,460

following that it's a wig in science

38

00:02:07,660 --> 00:02:02,690

from our good friends at the Royal

39

00:02:11,259 --> 00:02:07,670

Institution of Australia w WR IA us ova

40

00:02:12,520 --> 00:02:11,269

you this week the Royal Institution are

41

00:02:15,220 --> 00:02:12,530

going to be looking at the Drake

42

00:02:17,350 --> 00:02:15,230

Equation here's their life out there

43

00:02:20,559 --> 00:02:17,360

folks is there life out there on other

44

00:02:24,070 --> 00:02:20,569

parents welder I probably would have to

45

00:02:26,380 --> 00:02:24,080

say yes somewhere in the vastness of

46

00:02:29,770 --> 00:02:26,390

space there must be even if it's a

47

00:02:31,599 --> 00:02:29,780

microbe that's coming up in a week in

48

00:02:33,120 --> 00:02:31,609

science from the Royal Institution of

49

00:02:34,650 --> 00:02:33,130

Australia

50

00:02:37,080 --> 00:02:34,660

and to round off the show me nerds

51  
00:02:39,210 --> 00:02:37,090  
spooky action more fantastic interviews

52  
00:02:40,980 --> 00:02:39,220  
from the Australian skeptics National

53  
00:02:43,820 --> 00:02:40,990  
Convention held just last year in

54  
00:02:47,010 --> 00:02:43,830  
Canberra this week may not chat stew

55  
00:02:51,360 --> 00:02:47,020  
skeptic of the year professor Simon

56  
00:02:53,820 --> 00:02:51,370  
Chapman and they'll discuss his work in

57  
00:02:56,910 --> 00:02:53,830  
relation to science outreach and health

58  
00:02:59,790 --> 00:02:56,920  
matters clannad also speaks to chris

59  
00:03:02,910 --> 00:02:59,800  
kennedy director of the CSIRO discovery

60  
00:03:06,270 --> 00:03:02,920  
center and he and may not take a very

61  
00:03:09,030 --> 00:03:06,280  
close look at the land research mural a

62  
00:03:12,330 --> 00:03:09,040  
very famous mural in Canberra all about

63  
00:03:16,080 --> 00:03:12,340

science it's a fantastic fantastic thing

64

00:03:18,330 --> 00:03:16,090

to see and if you go to [www.pxo TV](http://www.pxo.tv) I

65

00:03:20,310 --> 00:03:18,340

just scroll down to the show notes for

66

00:03:23,160 --> 00:03:20,320

this episode you can click on a link and

67

00:03:25,790 --> 00:03:23,170

see this mural for yourself and may not

68

00:03:29,810 --> 00:03:25,800

also talks to Dan buzzard about his

69

00:03:32,850 --> 00:03:29,820

activities and his work in fighting the

70

00:03:35,040 --> 00:03:32,860

anti-vaccination movement and just

71

00:03:37,110 --> 00:03:35,050

before we get into the show it was such

72

00:03:39,690 --> 00:03:37,120

a pleasure to see our doctor Simon Singh

73

00:03:42,480 --> 00:03:39,700

here in Sydney just last week what a

74

00:03:46,230 --> 00:03:42,490

wonderful man he is and I was very happy

75

00:03:48,270 --> 00:03:46,240

to give him a present for his son Harry

76

00:03:51,270 --> 00:03:48,280

who's only I think three or four very

77

00:03:52,680 --> 00:03:51,280

young I gave him a copy of a DVD i did

78

00:03:55,110 --> 00:03:52,690

some years ago with a very good friend

79

00:03:57,920 --> 00:03:55,120

of mine Gary Clark all about how to make

80

00:04:00,420 --> 00:03:57,930

origami and I was delighted that Simon

81

00:04:02,420 --> 00:04:00,430

twittered about that if you're

82

00:04:04,890 --> 00:04:02,430

interested it's called DVD origami

83

00:04:08,370 --> 00:04:04,900

myself and Gary Clark teach you how to

84

00:04:11,340 --> 00:04:08,380

make 20 origami models everything from

85

00:04:13,980 --> 00:04:11,350

birds to dinosaurs two hats step-by-step

86

00:04:17,070 --> 00:04:13,990

instructions if you go to [www skeptics](http://www.skeptics)

87

00:04:20,670 --> 00:04:17,080

on TV just scroll down and on the Left

88

00:04:23,760 --> 00:04:20,680

you'll see DVD origami you might enjoy

89

00:04:25,980 --> 00:04:23,770

it and also I see in the news just today

90

00:04:28,910 --> 00:04:25,990

that there's been and I hate to use this

91

00:04:32,310 --> 00:04:28,920

term I really do a breakthrough in

92

00:04:35,370 --> 00:04:32,320

medicine when it comes to restoring

93

00:04:37,590 --> 00:04:35,380

vision using gene therapy wow what an

94

00:04:40,770 --> 00:04:37,600

exciting time to live let's see

95

00:04:42,360 --> 00:04:40,780

superstition top that but for now I'm

96

00:04:44,100 --> 00:04:42,370

going to run to the fridge have some

97

00:04:45,900 --> 00:04:44,110

more ice water in fact I'm going to

98

00:04:49,410 --> 00:04:45,910

cheat I have some right here

99

00:04:51,570 --> 00:04:49,420

in this bottle it's that sort of a day

100

00:04:55,070 --> 00:04:51,580

folks i might even also have a peanut

101  
00:04:59,460 --> 00:04:55,080  
butter sandwich or a peanut butter and

102  
00:05:02,400 --> 00:04:59,470  
golden syrup sandwich whoa decadent hmm

103  
00:05:21,999 --> 00:05:02,410  
well I'm doing that I hope you enjoy the

104  
00:05:26,809 --> 00:05:24,890  
joining me now all the way from sunny

105  
00:05:29,149 --> 00:05:26,819  
spectacular well it's a bit cool this

106  
00:05:33,140 --> 00:05:29,159  
time of year California it's Susan Kovac

107  
00:05:34,580 --> 00:05:33,150  
hello Susan hi Richard it's really nice

108  
00:05:35,749 --> 00:05:34,590  
to see you've just for the benefit of

109  
00:05:37,760 --> 00:05:35,759  
our listeners because we're actually

110  
00:05:43,309 --> 00:05:37,770  
video each other at the moment and there

111  
00:05:45,080 --> 00:05:43,319  
you are beaming away at me so to speak

112  
00:05:47,629 --> 00:05:45,090  
listen I wanted to catch up with you for

113  
00:05:50,119 --> 00:05:47,639

a long time now because I do play the

114

00:05:52,779 --> 00:05:50,129

little little clips and ads on the

115

00:05:55,670 --> 00:05:52,789

skeptic zone for guerrilla skepticism so

116

00:05:58,790 --> 00:05:55,680

can you give our listeners a bit of an

117

00:06:01,279 --> 00:05:58,800

overview on how that's all going how

118

00:06:04,309 --> 00:06:01,289

it's going and we do appreciate it i get

119

00:06:06,860 --> 00:06:04,319

listeners of yours every so often who

120

00:06:09,040 --> 00:06:06,870

will write to me and volunteer their

121

00:06:11,600 --> 00:06:09,050

services so we really do appreciate it

122

00:06:14,510 --> 00:06:11,610

so you want to know how we're going well

123

00:06:17,809 --> 00:06:14,520

we're going great it's actually going

124

00:06:21,619 --> 00:06:17,819

very well but I need a lot more a lot

125

00:06:23,360 --> 00:06:21,629

more volunteers because it is you know

126

00:06:26,659 --> 00:06:23,370

being a volunteer organization it's a

127

00:06:31,129 --> 00:06:26,669

little difficult to force people to edit

128

00:06:32,659 --> 00:06:31,139

Wikipedia and once they volunteer they

129

00:06:35,629 --> 00:06:32,669

end up getting a little busy sometimes

130

00:06:37,939 --> 00:06:35,639

and there's a lot of work to be done yet

131

00:06:39,829 --> 00:06:37,949

there sure is and I can appreciate what

132

00:06:42,019 --> 00:06:39,839

you're saying when when you're working

133

00:06:44,209 --> 00:06:42,029

with a lot of one's volunteers you can't

134

00:06:45,680 --> 00:06:44,219

really make them do something and people

135

00:06:47,779 --> 00:06:45,690

do this out of the goodness of their

136

00:06:50,269 --> 00:06:47,789

hearts if there or if their hearts are

137

00:06:51,950 --> 00:06:50,279

in it of course and you you're getting a

138

00:06:54,439 --> 00:06:51,960

lot of people all around the world

139

00:06:57,800 --> 00:06:54,449

helping you out aren't you yes I am I

140

00:06:59,950 --> 00:06:57,810

just got another editor from another

141

00:07:05,629 --> 00:06:59,960

Spanish editor this one's an ERG way and

142

00:07:08,839 --> 00:07:05,639

I have now to Hebrew editors and oh yeah

143

00:07:11,540 --> 00:07:08,849

I have I and it's great because we are

144

00:07:14,629 --> 00:07:11,550

able to converse this is kind of a

145

00:07:16,850 --> 00:07:14,639

perfect storm project we would never

146

00:07:19,839 --> 00:07:16,860

have been able to do this without the

147

00:07:22,850 --> 00:07:19,849

without email without facebook without

148

00:07:24,379 --> 00:07:22,860

things like Skype because we can

149

00:07:25,040 --> 00:07:24,389

converse in real time with everyone

150

00:07:27,020 --> 00:07:25,050

everywhere

151

00:07:28,339 --> 00:07:27,030

and it's just amazing to be able to do

152

00:07:31,010 --> 00:07:28,349

that kind of thing we couldn't have done

153

00:07:33,230 --> 00:07:31,020

this 10 or 15 years ago well wikipedia

154

00:07:35,570 --> 00:07:33,240

didn't really exist ten years ago but I

155

00:07:37,999 --> 00:07:35,580

mean 11 years ago is I think when it

156

00:07:40,129 --> 00:07:38,009

started but we it's only something that

157

00:07:43,219 --> 00:07:40,139

this is a project then only can be done

158

00:07:45,140 --> 00:07:43,229

now with the tools that we have I think

159

00:07:46,939 --> 00:07:45,150

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

160

00:07:48,619 --> 00:07:46,949

of a very appropriate thing for the time

161

00:07:51,080 --> 00:07:48,629

now for those listeners who are

162

00:07:53,180 --> 00:07:51,090

relatively new to the skeptics on what

163

00:07:54,680 --> 00:07:53,190

you're doing is you're getting people

164

00:07:56,330 --> 00:07:54,690

from all around the world who speak all

165

00:07:59,779 --> 00:07:56,340

sorts of different languages to come in

166

00:08:01,969 --> 00:07:59,789

and really do international versions of

167

00:08:04,459 --> 00:08:01,979

Wikipedia sites on you we compete your

168

00:08:07,510 --> 00:08:04,469

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

169

00:08:10,010 --> 00:08:07,520

to rewrite Wikipedia using focus on

170

00:08:12,140 --> 00:08:10,020

scientific skepticism and we're trying

171

00:08:14,809 --> 00:08:12,150

to do it in all languages we have a

172

00:08:17,209 --> 00:08:14,819

project called we got your wiki back

173

00:08:20,059 --> 00:08:17,219

which seems to be our most popular and

174

00:08:23,180 --> 00:08:20,069

what we do is we try to take prominent

175

00:08:26,680 --> 00:08:23,190

skeptics who've written books or who do

176

00:08:29,120 --> 00:08:26,690

podcasts or who are doing research

177

00:08:31,610 --> 00:08:29,130

investigations that kind of thing we're

178

00:08:33,500 --> 00:08:31,620

trying to give those pages a boost and

179

00:08:36,469 --> 00:08:33,510

try to improve them we also do a lot of

180

00:08:38,569 --> 00:08:36,479

scientists pages the scientists we

181

00:08:42,440 --> 00:08:38,579

usually choose our people who have

182

00:08:46,040 --> 00:08:42,450

lectured for the skeptical community and

183

00:08:48,920 --> 00:08:46,050

so on so our goal is to when that person

184

00:08:51,560 --> 00:08:48,930

is in the media's I you know maybe

185

00:08:55,160 --> 00:08:51,570

they're doing a program for nova or they

186

00:08:56,750 --> 00:08:55,170

have a book or a research project coming

187

00:08:59,000 --> 00:08:56,760

out or something like that they're going

188

00:09:01,639 --> 00:08:59,010

to be in the public's eye and we want

189

00:09:04,639 --> 00:09:01,649

people to be able to google the person's

190

00:09:07,280 --> 00:09:04,649

name they're going to get a Wikipedia

191

00:09:08,660 --> 00:09:07,290

page probably most likely everybody

192

00:09:10,340 --> 00:09:08,670

knows that's one of the first hits they

193

00:09:12,530 --> 00:09:10,350

get and people are going to go check

194

00:09:14,540 --> 00:09:12,540

them out we want to make sure that that

195

00:09:19,760 --> 00:09:14,550

page is in really great shape it's

196

00:09:21,800 --> 00:09:19,770

really it shows some respect some shows

197

00:09:26,269 --> 00:09:21,810

that they're notable shows that their

198

00:09:30,319 --> 00:09:26,279

opinion is important so that when mr.

199

00:09:32,900 --> 00:09:30,329

mrs. public looks at this Wikipedia page

200

00:09:35,389 --> 00:09:32,910

and they're there watching the person on

201  
00:09:38,840 --> 00:09:35,399  
nova or wherever National Geographic or

202  
00:09:41,559 --> 00:09:38,850  
a podcast or whatever they'll be able

203  
00:09:46,329 --> 00:09:41,569  
know that this person is reputable

204  
00:09:48,740 --> 00:09:46,339  
absolutely now apart from this ongoing

205  
00:09:51,800 --> 00:09:48,750  
project which is sort of become a bit of

206  
00:09:54,379 --> 00:09:51,810  
a passion of yours I can tell you are

207  
00:09:55,879 --> 00:09:54,389  
currently undergoing a bit of treatment

208  
00:09:58,519 --> 00:09:55,889  
yourself and for those listeners who may

209  
00:09:59,689 --> 00:09:58,529  
not not realize what's Lord what's the

210  
00:10:02,210 --> 00:09:59,699  
process you're going through what's

211  
00:10:06,019 --> 00:10:02,220  
happening to you right now oh yes I have

212  
00:10:08,240 --> 00:10:06,029  
well I guess I had breast cancer I think

213  
00:10:11,050 --> 00:10:08,250

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

214

00:10:14,720 --> 00:10:11,060

don't know for sure I had 20 weeks of

215

00:10:17,569 --> 00:10:14,730

chemo I have stage two breast cancer and

216

00:10:21,110 --> 00:10:17,579

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

217

00:10:22,490 --> 00:10:21,120

about it at all and um right now I'm

218

00:10:24,379 --> 00:10:22,500

going through radiation I've completely

219

00:10:27,790 --> 00:10:24,389

finished the chemo which was 16

220

00:10:31,759 --> 00:10:27,800

treatments it was quite an adventure and

221

00:10:34,129 --> 00:10:31,769

not something that I would gladly do

222

00:10:37,220 --> 00:10:34,139

again for the heck of it you know but

223

00:10:39,019 --> 00:10:37,230

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

224

00:10:42,379 --> 00:10:39,029

you know I thought it would be

225

00:10:44,689 --> 00:10:42,389

considering you know just how bad cancer

226

00:10:46,460 --> 00:10:44,699

seems to be it was it it really wasn't

227

00:10:49,370 --> 00:10:46,470

that bad I mean it was bad but it wasn't

228

00:10:52,790 --> 00:10:49,380

that bad I don't I think for the people

229

00:10:54,710 --> 00:10:52,800

like you each year that passes the

230

00:10:56,569 --> 00:10:54,720

treatment it gets better and better and

231

00:10:58,189 --> 00:10:56,579

the side effects can be managed more

232

00:11:01,429 --> 00:10:58,199

successfully I think but you've

233

00:11:03,110 --> 00:11:01,439

certainly been up front about it to the

234

00:11:06,290 --> 00:11:03,120

extent I think you're having as much fun

235

00:11:08,170 --> 00:11:06,300

as anybody can have with this by posting

236

00:11:11,870 --> 00:11:08,180

very interesting photographs of yourself

237

00:11:14,210 --> 00:11:11,880

I think the last one that really caught

238

00:11:17,030 --> 00:11:14,220

my eye were done up is not for r2 which

239

00:11:18,650 --> 00:11:17,040

was quite stunning oh it was great and

240

00:11:22,370 --> 00:11:18,660

you know what that was so much fun it's

241

00:11:24,499 --> 00:11:22,380

my boyfriend mark Edward he had he was

242

00:11:26,960 --> 00:11:24,509

here visiting me he lives about 300

243

00:11:28,610 --> 00:11:26,970

miles away so when he's when we're

244

00:11:32,240 --> 00:11:28,620

together we have a lot we do have a lot

245

00:11:35,030 --> 00:11:32,250

of fun he said I'd put on I have lost my

246

00:11:36,559 --> 00:11:35,040

eyebrows on my eyelashes and women just

247

00:11:38,240 --> 00:11:36,569

look really different when they don't

248

00:11:41,269 --> 00:11:38,250

have eyelashes and eyebrows and I don't

249

00:11:44,689 --> 00:11:41,279

have my fingernails are almost all

250

00:11:46,370 --> 00:11:44,699

gone to from the chemo so I they're

251  
00:11:47,780 --> 00:11:46,380  
growing out now but I can't really put

252  
00:11:50,059 --> 00:11:47,790  
on fake eyelashes or anything like that

253  
00:11:52,310 --> 00:11:50,069  
because i don't have fingernails so it

254  
00:11:53,840 --> 00:11:52,320  
is really kind of weird

255  
00:11:55,280 --> 00:11:53,850  
but anyway one day I was trying to put

256  
00:11:57,350 --> 00:11:55,290  
some makeup on when he was here and he

257  
00:12:00,320 --> 00:11:57,360  
said I said how do I look and he says

258  
00:12:03,020 --> 00:12:00,330  
you look like Uncle Fester so he said

259  
00:12:04,820 --> 00:12:03,030  
you know what why don't we take a photo

260  
00:12:06,830 --> 00:12:04,830  
would you be game for that and I said

261  
00:12:08,330 --> 00:12:06,840  
sure so we dressed me up his uncle

262  
00:12:10,960 --> 00:12:08,340  
fester and put a light bulb in my mouth

263  
00:12:14,090 --> 00:12:10,970

and that was kind of the start of it

264

00:12:16,010 --> 00:12:14,100

somebody on facebook when I put up the

265

00:12:18,350 --> 00:12:16,020

uncle fester photo said that he would

266

00:12:24,530 --> 00:12:18,360

give a hundred dollars to his local

267

00:12:28,780 --> 00:12:24,540

cancer cancer treatment center in his

268

00:12:31,190 --> 00:12:28,790

town in Arkansas if I dressed up as no

269

00:12:33,710 --> 00:12:31,200

say the name for meanness nosferatu

270

00:12:37,910 --> 00:12:33,720

nostri died I've never heard of them

271

00:12:40,280 --> 00:12:37,920

being huh and so I waited a few days and

272

00:12:43,070 --> 00:12:40,290

we played around with it and I did we

273

00:12:45,110 --> 00:12:43,080

went into portraits down at a very

274

00:12:49,340 --> 00:12:45,120

public place that had an archway that

275

00:12:51,380 --> 00:12:49,350

kind of fit the theme and the i posted

276

00:12:53,690 --> 00:12:51,390

up on facebook and that that person

277

00:12:56,420 --> 00:12:53,700

donated two hundred and fifty dollars to

278

00:12:57,890 --> 00:12:56,430

his cancer treatment center in his town

279

00:12:59,990 --> 00:12:57,900

he thought it was so great he said i'd

280

00:13:02,030 --> 00:13:00,000

gone over the top and done it had done a

281

00:13:04,220 --> 00:13:02,040

better job and then i did one right

282

00:13:05,540 --> 00:13:04,230

after that of dr. evil and I didn't

283

00:13:08,600 --> 00:13:05,550

really like the way that one came out

284

00:13:11,000 --> 00:13:08,610

but you know I have I have been having

285

00:13:14,900 --> 00:13:11,010

as much fun as I possibly can because I

286

00:13:16,400 --> 00:13:14,910

don't plan on being bald again well I

287

00:13:18,590 --> 00:13:16,410

think that's that that's a wonderful

288

00:13:21,470 --> 00:13:18,600

attitude to have and it's one of the

289

00:13:25,730 --> 00:13:21,480

themes that comes up there's this idea

290

00:13:28,160 --> 00:13:25,740

at large that too to help you get

291

00:13:29,960 --> 00:13:28,170

through something like cancer or or

292

00:13:31,400 --> 00:13:29,970

whatever it is if you have this great

293

00:13:33,830 --> 00:13:31,410

positive attitude that's going to help

294

00:13:36,230 --> 00:13:33,840

you fight the cancer and win but as we

295

00:13:38,300 --> 00:13:36,240

all know having a positive attitude

296

00:13:40,580 --> 00:13:38,310

really just helps you get through the

297

00:13:42,110 --> 00:13:40,590

process more than anything else you're a

298

00:13:44,360 --> 00:13:42,120

hundred percent right and I think that's

299

00:13:46,370 --> 00:13:44,370

a really good thing to raise i felt bad

300

00:13:51,470 --> 00:13:46,380

throughout the whole time that I've been

301  
00:13:53,120 --> 00:13:51,480  
public because I felt that having a you

302  
00:13:54,680 --> 00:13:53,130  
know if I have a really good day and I'm

303  
00:13:56,570 --> 00:13:54,690  
talking about it that I feel like I'm

304  
00:13:59,630 --> 00:13:56,580  
almost telling people who have cancer

305  
00:14:00,950 --> 00:13:59,640  
that are having bad days that there's

306  
00:14:02,840 --> 00:14:00,960  
something wrong with them that they're

307  
00:14:04,600 --> 00:14:02,850  
not thinking positively enough or

308  
00:14:06,199 --> 00:14:04,610  
something like that and I feel really

309  
00:14:08,179 --> 00:14:06,209  
self-conscious but what

310  
00:14:10,730 --> 00:14:08,189  
you start making posts on Facebook or

311  
00:14:12,319 --> 00:14:10,740  
Twitter about it and people are writing

312  
00:14:15,350 --> 00:14:12,329  
to me and telling me how much they enjoy

313  
00:14:17,269 --> 00:14:15,360

the photos and have my attitude I feel

314

00:14:20,329 --> 00:14:17,279

and then people start telling me things

315

00:14:21,710 --> 00:14:20,339

like you're a hero and you're so this

316

00:14:24,319 --> 00:14:21,720

and you're so that I'm thinking I'm

317

00:14:26,210 --> 00:14:24,329

doing nothing I'm just you know trying

318

00:14:29,030 --> 00:14:26,220

to have a positive attitude about it it

319

00:14:31,429 --> 00:14:29,040

is a scientist it is those people behind

320

00:14:34,040 --> 00:14:31,439

the scenes who are doing everything the

321

00:14:36,439 --> 00:14:34,050

fact that I I didn't have any nausea the

322

00:14:40,850 --> 00:14:36,449

whole time in fact I gained weight and

323

00:14:43,160 --> 00:14:40,860

too much weight but I mean it's it's

324

00:14:45,819 --> 00:14:43,170

science that did it for me and then the

325

00:14:48,350 --> 00:14:45,829

people who are working at the clinic and

326

00:14:49,730 --> 00:14:48,360

all those people with their positive

327

00:14:51,650 --> 00:14:49,740

attitudes that's what's getting me

328

00:14:54,559 --> 00:14:51,660

through to and my friends oh my gosh

329

00:14:55,879 --> 00:14:54,569

everybody's been so wonderful so you

330

00:14:57,829 --> 00:14:55,889

know and I didn't really want to post if

331

00:15:00,530 --> 00:14:57,839

I had a kind of a bad day because I

332

00:15:03,799 --> 00:15:00,540

didn't want to turn anybody away make

333

00:15:05,509 --> 00:15:03,809

them think that oh I should never have a

334

00:15:07,220 --> 00:15:05,519

key mode because you know she's gonna

335

00:15:09,769 --> 00:15:07,230

lose her fingernails or you're gonna do

336

00:15:11,749 --> 00:15:09,779

this and and it's very very rare that

337

00:15:14,660 --> 00:15:11,759

somebody loses their fingernails as much

338

00:15:18,289 --> 00:15:14,670

as I have that's very rare so I just

339

00:15:19,609 --> 00:15:18,299

happen to be an exception so don't freak

340

00:15:20,749 --> 00:15:19,619

out if you think you're gonna have to

341

00:15:21,889 --> 00:15:20,759

have chemo and you're going to think

342

00:15:25,910 --> 00:15:21,899

you're gonna lose your fingernails it's

343

00:15:27,289 --> 00:15:25,920

really really unusual ok so I mean

344

00:15:30,230 --> 00:15:27,299

really I haven't done much of anything

345

00:15:32,689 --> 00:15:30,240

except just you know play it for all

346

00:15:34,939 --> 00:15:32,699

it's worth and but you're absolutely

347

00:15:36,710 --> 00:15:34,949

right Richard having a positive attitude

348

00:15:39,230 --> 00:15:36,720

will get you through the treatment I

349

00:15:42,530 --> 00:15:39,240

learned over and over and over that when

350

00:15:45,079 --> 00:15:42,540

you are that if you're going through

351

00:15:47,389 --> 00:15:45,089

chemo chemo still hard stuff radiations

352

00:15:49,429 --> 00:15:47,399

nothing if you're going through chemo

353

00:15:51,379 --> 00:15:49,439

you need to go to work you need to get

354

00:15:53,090 --> 00:15:51,389

up you need to go for walks you need to

355

00:15:55,249 --> 00:15:53,100

wash your dishes you need to clean your

356

00:15:57,199 --> 00:15:55,259

house you need to pet your cat you need

357

00:15:59,539 --> 00:15:57,209

to go out with friends go to the movies

358

00:16:01,579 --> 00:15:59,549

you need to be active because when

359

00:16:03,230 --> 00:16:01,589

you're when you win your life that you

360

00:16:05,329 --> 00:16:03,240

hang out with people who are fun and you

361

00:16:06,710 --> 00:16:05,339

can laugh and that kind of thing you

362

00:16:09,499 --> 00:16:06,720

will get through the chemo so much

363

00:16:11,629 --> 00:16:09,509

easier it's when you come home and you

364

00:16:13,989 --> 00:16:11,639

sit on the couch and you watch TV and

365

00:16:16,970 --> 00:16:13,999

you you start to get a little depressed

366

00:16:18,499 --> 00:16:16,980

it's it's not good for you they

367

00:16:20,660 --> 00:16:18,509

explained it to me saying that your body

368

00:16:23,360 --> 00:16:20,670

creates a steroid a natural

369

00:16:25,010 --> 00:16:23,370

steroid when you're active and the

370

00:16:27,650 --> 00:16:25,020

steroids really help you get through the

371

00:16:30,050 --> 00:16:27,660

process that kind of natural thing and

372

00:16:32,270 --> 00:16:30,060

so you know anybody who's listening

373

00:16:34,850 --> 00:16:32,280

who's going to be going through this

374

00:16:36,980 --> 00:16:34,860

process just really do everything you

375

00:16:38,930 --> 00:16:36,990

can to get up and keep active and be

376

00:16:41,330 --> 00:16:38,940

with hang out with people that are fun I

377

00:16:43,700 --> 00:16:41,340

think that's just wonderful advice and

378

00:16:47,330 --> 00:16:43,710

that coupled with the fact that every

379

00:16:50,960 --> 00:16:47,340

year scientific advancements in medicine

380

00:16:52,970 --> 00:16:50,970

make it better and easier for people

381

00:16:56,450 --> 00:16:52,980

like yourself I think they should give

382

00:17:00,590 --> 00:16:56,460

everybody heart I think mm-hmm and stage

383

00:17:02,540 --> 00:17:00,600

two stage three stage four they they can

384

00:17:05,150 --> 00:17:02,550

fix almost anything these days you guys

385

00:17:07,100 --> 00:17:05,160

really it's not cancer is not the

386

00:17:09,860 --> 00:17:07,110

disease that that I was raised to

387

00:17:11,630 --> 00:17:09,870

believe what was so horrible my father

388

00:17:15,620 --> 00:17:11,640

died of cancer not the same kind of

389

00:17:17,300 --> 00:17:15,630

thing but when he died we weren't even

390

00:17:20,660 --> 00:17:17,310

allowed to mention the word and he died

391

00:17:23,870 --> 00:17:20,670

in 89 1989 and we couldn't put in the

392

00:17:26,870 --> 00:17:23,880

obituaries it was a whispered word you

393

00:17:29,180 --> 00:17:26,880

did not know it was horrible is it was

394

00:17:31,190 --> 00:17:29,190

like a very very bad thing to say so

395

00:17:34,820 --> 00:17:31,200

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

396

00:17:38,060 --> 00:17:34,830

breast cancer I fell totally totally

397

00:17:40,610 --> 00:17:38,070

changed well that that's that's

398

00:17:43,370 --> 00:17:40,620

absolutely a wonderful attitude to have

399

00:17:45,220 --> 00:17:43,380

now Susan how can people getting back to

400

00:17:48,110 --> 00:17:45,230

our original topic how can people

401  
00:17:51,200 --> 00:17:48,120  
continue to help out the guerrilla

402  
00:17:53,240 --> 00:17:51,210  
skepticism project oh oh my gosh Richard

403  
00:17:56,660 --> 00:17:53,250  
I'm so glad you asked if we really need

404  
00:18:01,930 --> 00:17:56,670  
people to help us out are you can write

405  
00:18:04,100 --> 00:18:01,940  
to us at GS o w team @ gmail.com and

406  
00:18:07,630 --> 00:18:04,110  
what we're going to do is we're going to

407  
00:18:10,250 --> 00:18:07,640  
ask you to open a Wikipedia account and

408  
00:18:14,300 --> 00:18:10,260  
let me know where you heard about us and

409  
00:18:16,010 --> 00:18:14,310  
to let me know what language you want to

410  
00:18:17,720 --> 00:18:16,020  
edit in and then we'll put you through

411  
00:18:19,100 --> 00:18:17,730  
training you'll have to go to our forum

412  
00:18:22,010 --> 00:18:19,110  
which will give you the link to because

413  
00:18:23,180 --> 00:18:22,020

it's a super secret forum and then

414

00:18:26,390 --> 00:18:23,190

you'll be able to come in there and

415

00:18:29,000 --> 00:18:26,400

we'll start you out with process process

416

00:18:31,610 --> 00:18:29,010

you through the training and it's a lot

417

00:18:32,930 --> 00:18:31,620

of fun it's a community and you'll have

418

00:18:33,769 --> 00:18:32,940

a really great time and you'll learn how

419

00:18:36,320 --> 00:18:33,779

to change the

420

00:18:38,810 --> 00:18:36,330

old one Wikipedia page at a time it

421

00:18:41,239 --> 00:18:38,820

sounds good well Susan I'm so pleased

422

00:18:43,609 --> 00:18:41,249

that you're on the job as it were you're

423

00:18:44,989 --> 00:18:43,619

on the case you're keeping at it despite

424

00:18:46,969 --> 00:18:44,999

everything that you've been going

425

00:18:48,830 --> 00:18:46,979

through I look forward to seeing more

426

00:18:51,680 --> 00:18:48,840

wacky pictures of you until your hair

427

00:18:53,119 --> 00:18:51,690

grows back and maybe when it starts to

428

00:18:55,609 --> 00:18:53,129

grow back you can even have some more

429

00:18:57,739 --> 00:18:55,619

fun with it I'm not sure oh I don't know

430

00:18:59,539 --> 00:18:57,749

i'll be a normal human being back then

431

00:19:02,509 --> 00:18:59,549

but it sure really has been kind of fun

432

00:19:04,039 --> 00:19:02,519

you know seriously you guys I think

433

00:19:05,810 --> 00:19:04,049

every woman should shave her head at

434

00:19:08,680 --> 00:19:05,820

some point in her life and not because

435

00:19:12,829 --> 00:19:08,690

she has cancer but I think it's a really

436

00:19:14,599 --> 00:19:12,839

interesting social experiment and you

437

00:19:18,649 --> 00:19:14,609

really makes you think about what is

438

00:19:20,389 --> 00:19:18,659

beauty and what really is you know how

439

00:19:22,820 --> 00:19:20,399

you feel about yourself and these kinds

440

00:19:25,190 --> 00:19:22,830

of things I it's been a life-changing

441

00:19:27,459 --> 00:19:25,200

experience trust me not just having

442

00:19:29,539 --> 00:19:27,469

cancer but you know losing your hair is

443

00:19:31,310 --> 00:19:29,549

something else let me tell you but I

444

00:19:32,869 --> 00:19:31,320

think most women should do it just some

445

00:19:37,489 --> 00:19:32,879

time but their life just I think it

446

00:19:40,519 --> 00:19:37,499

would be something that they will look

447

00:19:42,320 --> 00:19:40,529

back on with fond memories no there we

448

00:19:44,029 --> 00:19:42,330

go if we see lots of women in the street

449

00:19:48,259 --> 00:19:44,039

with bald heads next week we'll know who

450

00:19:50,299 --> 00:19:48,269

to blame okay that's fine Susan Kovac

451  
00:20:05,610 --> 00:19:50,309  
with that great attitude thank you very

452  
00:20:11,380 --> 00:20:09,100  
it never ends a friend starts talking

453  
00:20:12,820 --> 00:20:11,390  
about his new Reiki Master and someone

454  
00:20:15,700 --> 00:20:12,830  
else just posted about another

455  
00:20:18,070 --> 00:20:15,710  
all-natural cancer cure that they don't

456  
00:20:19,510 --> 00:20:18,080  
want you to know about as skeptics we

457  
00:20:21,970 --> 00:20:19,520  
spend a lot of time trying to educate

458  
00:20:23,670 --> 00:20:21,980  
and protect those around us but there is

459  
00:20:26,530 --> 00:20:23,680  
a way that you can reach millions

460  
00:20:28,600 --> 00:20:26,540  
guerrilla skepticism on Wikipedia is a

461  
00:20:30,240 --> 00:20:28,610  
group working to keep the best skeptical

462  
00:20:33,750 --> 00:20:30,250  
information at everyone's fingertips

463  
00:20:37,660 --> 00:20:33,760

join us we need writers editors

464

00:20:40,030 --> 00:20:37,670

translators we need you you join us or

465

00:20:43,360 --> 00:20:40,040

find out more send a facebook friend

466

00:20:51,400 --> 00:20:43,370

request to Susan Berbick that's ger be

467

00:20:56,300 --> 00:20:54,110

hi this is Lauren Cochrane president of

468

00:20:58,100 --> 00:20:56,310

Canberra skeptics our next meetup will

469

00:21:01,010 --> 00:20:58,110

be our annual social function on the

470

00:21:03,700 --> 00:21:01,020

19th of January 1pm in the barbecue area

471

00:21:06,200 --> 00:21:03,710

behind Questacon this event is BYO

472

00:21:07,550 --> 00:21:06,210

following the BBQ Questacon will be

473

00:21:10,070 --> 00:21:07,560

holding a free screening of the

474

00:21:12,470 --> 00:21:10,080

documentary flock of dodos produced by

475

00:21:14,960 --> 00:21:12,480

filmmaker and evolutionary ecologist dr.

476  
00:21:17,030 --> 00:21:14,970  
Randy Olson this documentary takes a

477  
00:21:19,520 --> 00:21:17,040  
look at the evolution versus intelligent

478  
00:21:21,260 --> 00:21:19,530  
design controversy for more information

479  
00:21:23,450 --> 00:21:21,270  
about this and other Canberra skeptics

480  
00:21:26,630 --> 00:21:23,460  
events look for us on facebook twitter

481  
00:21:29,720 --> 00:21:26,640  
meetup or visit canberra skeptics or gay

482  
00:21:32,480 --> 00:21:29,730  
you barcamp canberra is back again for

483  
00:21:34,670 --> 00:21:32,490  
2014 we welcome anyone interested in

484  
00:21:37,100 --> 00:21:34,680  
science communication scepticism maker

485  
00:21:39,590 --> 00:21:37,110  
or hacker culture social innovation gulf

486  
00:21:41,840 --> 00:21:39,600  
2 point 0 or the web to come along be

487  
00:21:44,030 --> 00:21:41,850  
ready to participate anyone can give a

488  
00:21:46,130 --> 00:21:44,040

talk during the 20-minute sessions this

489

00:21:47,840 --> 00:21:46,140

year barcamp canberra will be held at

490

00:21:50,990 --> 00:21:47,850

the Gungan library on the fifteenth of

491

00:22:03,409 --> 00:21:51,000

march as always entry is free for more

492

00:22:08,430 --> 00:22:06,269

welcome to a weakened science from ra oz

493

00:22:10,259 --> 00:22:08,440

bringing you the science you need to

494

00:22:13,230 --> 00:22:10,269

know have you ever wondered if there's

495

00:22:15,090 --> 00:22:13,240

life out there but believe it or not

496

00:22:17,460 --> 00:22:15,100

there's actually an equation to work out

497

00:22:28,500 --> 00:22:17,470

the probability of extraterrestrial life

498

00:22:29,970 --> 00:22:28,510

and it's called the Drake Equation so

499

00:22:33,060 --> 00:22:29,980

there's this astronomer named Frank

500

00:22:35,190 --> 00:22:33,070

Drake be back in 1959 started searching

501  
00:22:37,230 --> 00:22:35,200  
the universe for signals which may

502  
00:22:39,840 --> 00:22:37,240  
indicate the presence of intelligent

503  
00:22:41,549 --> 00:22:39,850  
life then in nineteen sixty one who was

504  
00:22:43,950 --> 00:22:41,559  
helping organize a conference and

505  
00:22:45,600 --> 00:22:43,960  
started thinking about all the factors

506  
00:22:47,730 --> 00:22:45,610  
which would need to be considered when

507  
00:22:50,340 --> 00:22:47,740  
trying to predict where the intelligent

508  
00:22:52,830 --> 00:22:50,350  
life was out there what he came up with

509  
00:22:55,649 --> 00:22:52,840  
is this equation which multiplies

510  
00:22:57,210 --> 00:22:55,659  
together the rate of star formation the

511  
00:22:59,639 --> 00:22:57,220  
fraction of those stars which have

512  
00:23:02,100 --> 00:22:59,649  
planets how many of those planets that

513  
00:23:03,870 --> 00:23:02,110

could support life the fraction of

514

00:23:06,060 --> 00:23:03,880

planets which could support life that

515

00:23:07,980 --> 00:23:06,070

actually develop life at some points the

516

00:23:09,930 --> 00:23:07,990

fraction of civilizations that develop a

517

00:23:11,879 --> 00:23:09,940

technology that releases detectable

518

00:23:13,850 --> 00:23:11,889

signs of their existence into space and

519

00:23:16,440 --> 00:23:13,860

the length of time for which such

520

00:23:20,909 --> 00:23:16,450

civilizations release detectable signals

521

00:23:22,980 --> 00:23:20,919

into space now obviously some of those

522

00:23:26,129 --> 00:23:22,990

factors are measurable or can be

523

00:23:28,769 --> 00:23:26,139

calculated but some we just don't know I

524

00:23:30,419 --> 00:23:28,779

mean how do you know how many planets

525

00:23:32,610 --> 00:23:30,429

with life go on to develop a

526  
00:23:34,620 --> 00:23:32,620  
civilization or how many of those

527  
00:23:36,810 --> 00:23:34,630  
develop technology which releases

528  
00:23:38,940 --> 00:23:36,820  
detectable signals because of these

529  
00:23:41,100 --> 00:23:38,950  
limitations the Drake Equation isn't

530  
00:23:43,200 --> 00:23:41,110  
really used to predict the abundance of

531  
00:23:45,330 --> 00:23:43,210  
life out there but it is an interesting

532  
00:23:47,009 --> 00:23:45,340  
equation to just contemplate when

533  
00:23:49,200 --> 00:23:47,019  
thinking about life in the universe and

534  
00:23:52,019 --> 00:23:49,210  
what is required for us to find it and

535  
00:23:54,860 --> 00:23:52,029  
now for fast facts about the search for

536  
00:23:59,700 --> 00:23:58,139  
the Voyager space probes carry records

537  
00:24:02,220 --> 00:23:59,710  
which contain information about Earth

538  
00:24:04,440 --> 00:24:02,230

and humans in case it meets other life

539

00:24:06,539 --> 00:24:04,450

forms part of the Curiosity rover

540

00:24:08,580 --> 00:24:06,549

mission is to search for water on Mars

541

00:24:11,009 --> 00:24:08,590

which could support the presence of life

542

00:24:12,690 --> 00:24:11,019

the zone surrounding a star which gives

543

00:24:15,119 --> 00:24:12,700

planet fit conditions which are just

544

00:24:17,490 --> 00:24:15,129

right for life is called the Goldilocks

545

00:24:19,440 --> 00:24:17,500

zone and one problem of searching for

546

00:24:21,539 --> 00:24:19,450

life in the universe is that life may

547

00:24:23,700 --> 00:24:21,549

exist in a form we don't recognize as

548

00:24:26,279 --> 00:24:23,710

being alive or in places we don't

549

00:24:28,590 --> 00:24:26,289

realize can even support life that's it

550

00:24:30,180 --> 00:24:28,600

for this week in science if you want to

551

00:24:31,950 --> 00:24:30,190

find out more about the search for life

552

00:24:36,749 --> 00:24:31,960

on other planets check out our website

553

00:24:40,830 --> 00:24:36,759

are I aus org a you where we have some

554

00:24:43,799 --> 00:24:40,840

links follow us on twitter at RI aus and

555

00:24:45,149 --> 00:24:43,809

like us on facebook i'm ben lewis and

556

00:24:56,030 --> 00:24:45,159

we'll catch you right back here next

557

00:24:56,040 --> 00:25:04,180

in a world where the truth is a matter

558

00:25:04,190 --> 00:25:12,120

we're messages are a scene for beyond

559

00:25:18,159 --> 00:25:15,390

and reason is sidelined for magical

560

00:25:18,169 --> 00:25:23,759

only three men stand between the truth

561

00:25:29,229 --> 00:25:27,519

what date is it 787 thing this is

562

00:25:30,879 --> 00:25:29,239

impressive if these are system present

563

00:25:33,759 --> 00:25:30,889

they're not their photographs of Chinese

564

00:25:36,009 --> 00:25:33,769

anthem it's not we are not worried sick

565

00:25:37,659 --> 00:25:36,019

is a good God we're fully don't discuss

566

00:25:39,549 --> 00:25:37,669

cryptozoology on the show very often

567

00:25:42,039 --> 00:25:39,559

because we don't know anything about how

568

00:25:43,749 --> 00:25:42,049

the truth the price gets lower and lower

569

00:25:47,340 --> 00:25:43,759

and lower and then he hits a ceiling

570

00:25:52,599 --> 00:25:49,779

skeptic to the cave and Moses has gifted

571

00:26:01,200 --> 00:25:52,609

society find us on iTunes or you know

572

00:26:05,110 --> 00:26:01,210

don't here's main art spooky action at

573

00:26:09,320 --> 00:26:07,370

well of course the big awards are being

574

00:26:11,120 --> 00:26:09,330

announced here in Simon you missed out

575

00:26:13,490 --> 00:26:11,130

on the bent spoon yet again you've never

576

00:26:15,350 --> 00:26:13,500

won at once now haven't but I know a lot

577

00:26:18,500 --> 00:26:15,360

of people who are really hanging out for

578

00:26:21,350 --> 00:26:18,510

it to go to Sarah Laurie from the war

579

00:26:23,210 --> 00:26:21,360

bruh foundation she's a really worthy

580

00:26:25,549 --> 00:26:23,220

recipient but wasn't to get it this year

581

00:26:27,110 --> 00:26:25,559

now now of course a look let's start

582

00:26:28,519 --> 00:26:27,120

backwards you just when you finished you

583

00:26:30,620 --> 00:26:28,529

said you're in a band you're going to

584

00:26:32,299 --> 00:26:30,630

donate some money to neglected cancers

585

00:26:33,769 --> 00:26:32,309

and you mentioned pancreatic cancers now

586

00:26:35,180 --> 00:26:33,779

what other ones would be in that in that

587

00:26:36,680 --> 00:26:35,190

area that people don't think as much

588

00:26:38,930 --> 00:26:36,690

because that they're not as generally

589

00:26:41,060 --> 00:26:38,940

effective look look there are a lot in

590

00:26:42,620 --> 00:26:41,070

fact if you add up all of the cancers

591

00:26:44,990 --> 00:26:42,630

that probably most people have never

592

00:26:47,240 --> 00:26:45,000

heard of collectively they would get

593

00:26:49,250 --> 00:26:47,250

certainly into the top five there are a

594

00:26:52,100 --> 00:26:49,260

lot of people who sort of will will have

595

00:26:53,990 --> 00:26:52,110

a you know a cancer of the eye or you

596

00:26:55,519 --> 00:26:54,000

know some sort of some part of the body

597

00:26:57,080 --> 00:26:55,529

that you know you haven't got a big

598

00:27:00,169 --> 00:26:57,090

group of people who are collecting money

599

00:27:01,639 --> 00:27:00,179

for it and often they're not a lot of

600

00:27:03,519 --> 00:27:01,649

people suffering from that particular

601  
00:27:07,430 --> 00:27:03,529  
one but if you put them all together

602  
00:27:09,200 --> 00:27:07,440  
they are together very very neglected I

603  
00:27:10,970 --> 00:27:09,210  
think it's a very interesting one to be

604  
00:27:12,620 --> 00:27:10,980  
raising money born and it's good it also

605  
00:27:14,029 --> 00:27:12,630  
a bit difficult to because it's a group

606  
00:27:15,440 --> 00:27:14,039  
you can't mention one everyone like

607  
00:27:17,240 --> 00:27:15,450  
pulls at the heartstrings straight away

608  
00:27:19,519 --> 00:27:17,250  
that's a problem of this yet it is here

609  
00:27:21,680 --> 00:27:19,529  
I mean some of the childhood cancers

610  
00:27:23,930 --> 00:27:21,690  
fall into that category

611  
00:27:25,759 --> 00:27:23,940  
you know the pancreatic cancer which are

612  
00:27:27,590 --> 00:27:25,769  
named tonight is actually a very

613  
00:27:29,990 --> 00:27:27,600

prevalent cancer and one of the most

614

00:27:32,720 --> 00:27:30,000

rapidly fatal and which we have very

615

00:27:35,389 --> 00:27:32,730

very little answer for so that that is

616

00:27:37,190 --> 00:27:35,399

one that's you know I think affects a

617

00:27:39,080 --> 00:27:37,200

lot of people but very few people have

618

00:27:41,720 --> 00:27:39,090

heard of it bowel cancer is quite

619

00:27:44,240 --> 00:27:41,730

neglected because unlike a lot of the

620

00:27:46,249 --> 00:27:44,250

other cancers if you've got you know if

621

00:27:48,019 --> 00:27:46,259

a colostomy bag and you're a celebrity

622

00:27:49,820 --> 00:27:48,029

or something you're probably not likely

623

00:27:51,590 --> 00:27:49,830

to go out and saying you know look I've

624

00:27:55,639 --> 00:27:51,600

got this is the problem i suffer from

625

00:27:57,039 --> 00:27:55,649

it's it's a messy unfortunate cancer but

626

00:27:59,299 --> 00:27:57,049

it's one what we can do a lot about

627

00:28:00,860 --> 00:27:59,309

we'll look at goes it out tell everyone

628

00:28:02,240 --> 00:28:00,870

what you got your award tonight and what

629

00:28:06,249 --> 00:28:02,250

do you think pushed you over the edge to

630

00:28:08,539 --> 00:28:06,259

get it tonight look I've no idea but I

631

00:28:12,110 --> 00:28:08,549

sometimes have to pinch myself at work

632

00:28:14,659 --> 00:28:12,120

you know to think that I go to work get

633

00:28:17,419 --> 00:28:14,669

paid as professor of Public Health to be

634

00:28:20,060 --> 00:28:17,429

able to look into some of this lunacy

635

00:28:22,730 --> 00:28:20,070

that's out there in public health we we

636

00:28:24,019 --> 00:28:22,740

we try to sort of get people concerned

637

00:28:25,270 --> 00:28:24,029

about things that they should be

638

00:28:30,970 --> 00:28:25,280

concerned about

639

00:28:33,280 --> 00:28:30,980

first got into this area about 15 years

640

00:28:34,840 --> 00:28:33,290

ago with mobile telephone towers which

641

00:28:36,400 --> 00:28:34,850

everyone a lot of not everyone a lot of

642

00:28:39,910 --> 00:28:36,410

people were saying all they could cause

643

00:28:43,060 --> 00:28:39,920

all sorts of scary things that turned

644

00:28:45,340 --> 00:28:43,070

out not to be true but with wind

645

00:28:47,140 --> 00:28:45,350

turbines you know this is this started

646

00:28:49,630 --> 00:28:47,150

happening about five or six years ago

647

00:28:51,580 --> 00:28:49,640

all the scare stuff about it and the

648

00:28:53,620 --> 00:28:51,590

more and more I looked into it the less

649

00:28:55,450 --> 00:28:53,630

and less I could see that there was any

650

00:28:59,140 --> 00:28:55,460

substance to it and so I've been doing

651

00:29:00,910 --> 00:28:59,150

my best to try and really talk talk

652

00:29:03,250 --> 00:29:00,920

about this issue about the naseebo

653

00:29:05,140 --> 00:29:03,260

effect we've all heard of the placebo

654

00:29:06,550 --> 00:29:05,150

effect which is where you know someone

655

00:29:08,800 --> 00:29:06,560

says look take this it'll be good for

656

00:29:11,800 --> 00:29:08,810

you naseebo fix the opposite like all

657

00:29:13,510 --> 00:29:11,810

this might harm you I'm telling you to

658

00:29:15,430 --> 00:29:13,520

be you know be on your on your guard

659

00:29:17,680 --> 00:29:15,440

because this might harm you and I think

660

00:29:19,360 --> 00:29:17,690

that's what's operational here now as

661

00:29:21,400 --> 00:29:19,370

someone who's involved in public he'll

662

00:29:24,040 --> 00:29:21,410

do you think and policy do you think

663

00:29:26,230 --> 00:29:24,050

there's any place for balancing public

664

00:29:27,730 --> 00:29:26,240

health and libertarian concerns or it

665

00:29:31,300 --> 00:29:27,740

shouldn't those should be public help

666

00:29:33,520 --> 00:29:31,310

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

667

00:29:36,700 --> 00:29:33,530

from the work that I do in in tobacco

668

00:29:37,780 --> 00:29:36,710

control but I probably surprised you've

669

00:29:40,660 --> 00:29:37,790

got a lot of people listening to this

670

00:29:42,160 --> 00:29:40,670

see if I say that you have a cigarette

671

00:29:44,320 --> 00:29:42,170

in your hand right now I know every

672

00:29:46,510 --> 00:29:44,330

surprised about a great but for example

673

00:29:48,490 --> 00:29:46,520

I was on the the Senate of the

674

00:29:50,470 --> 00:29:48,500

University of Sydney for for two terms

675

00:29:53,380 --> 00:29:50,480

and I was one of the people who actually

676

00:29:54,930 --> 00:29:53,390

opposed the campus going totally

677

00:29:56,790 --> 00:29:54,940

smoke-free

678

00:29:59,010 --> 00:29:56,800

and now I've got no problem about it

679

00:30:01,020 --> 00:29:59,020

going smoke-free indoors and it has been

680

00:30:03,480 --> 00:30:01,030

for many years but but outdoors the

681

00:30:06,510 --> 00:30:03,490

evidence is actually very very poor that

682

00:30:07,950 --> 00:30:06,520

someone's smoking say on an oval or in a

683

00:30:09,330 --> 00:30:07,960

boulevard is actually going to be

684

00:30:12,000 --> 00:30:09,340

harmful to other people the evidence

685

00:30:14,760 --> 00:30:12,010

isn't there and so I I sort of said

686

00:30:17,820 --> 00:30:14,770

we'll hang on a second it had been nice

687

00:30:20,160 --> 00:30:17,830

you know perhaps if it was that evidence

688

00:30:22,200 --> 00:30:20,170

but there isn't so we really can't push

689

00:30:23,430 --> 00:30:22,210

that boundary and a few people shook

690

00:30:24,720 --> 00:30:23,440

their heads and said well you know we

691

00:30:26,970 --> 00:30:24,730

could have got this through if you'd

692

00:30:29,280 --> 00:30:26,980

supported it but as it as it turns out

693

00:30:31,560 --> 00:30:29,290

that now the campus is just that all

694

00:30:32,610 --> 00:30:31,570

smoke free except for a few smoking

695

00:30:35,460 --> 00:30:32,620

areas and I think that's a good

696

00:30:37,380 --> 00:30:35,470

compromise what about the everyone goes

697

00:30:38,610 --> 00:30:37,390

on about you know if alcohol was good to

698

00:30:40,650 --> 00:30:38,620

become something new today it would

699

00:30:42,000 --> 00:30:40,660

never get past that sort of thing how

700

00:30:46,520 --> 00:30:42,010

many times you heard that kind of thing

701  
00:30:50,370 --> 00:30:46,530  
said yeah look at our alcohol is a huge

702  
00:30:51,230 --> 00:30:50,380  
public health problem but unlike tobacco

703  
00:30:53,360 --> 00:30:51,240  
where

704  
00:30:55,160 --> 00:30:53,370  
I bless them and cotton socks on us I

705  
00:30:56,810 --> 00:30:55,170  
decided to specialize in that area

706  
00:30:59,720 --> 00:30:56,820  
because there's really nothing good to

707  
00:31:02,210 --> 00:30:59,730  
be said about tobacco alcohol does

708  
00:31:04,220 --> 00:31:02,220  
brings tobacco got any beneficial things

709  
00:31:06,110 --> 00:31:04,230  
as relaxing people as a smoke or is it

710  
00:31:08,000 --> 00:31:06,120  
completely over times better but it

711  
00:31:10,730 --> 00:31:08,010  
doesn't have a monopoly on that you know

712  
00:31:12,380 --> 00:31:10,740  
I mean it you know cup of tea the idea

713  
00:31:13,970 --> 00:31:12,390

that you know or will you it would be a

714

00:31:15,980 --> 00:31:13,980

good idea to if you want to relax to

715

00:31:17,000 --> 00:31:15,990

take up smoking is just a ridiculous you

716

00:31:19,010 --> 00:31:17,010

know because there's so many other ways

717

00:31:22,100 --> 00:31:19,020

that you can relax but without with

718

00:31:24,230 --> 00:31:22,110

alcohol I'm and I think we see you know

719

00:31:26,720 --> 00:31:24,240

meant most people who do drink alcohol

720

00:31:28,850 --> 00:31:26,730

don't get into any trouble with it the

721

00:31:30,560 --> 00:31:28,860

either themselves and they don't harm

722

00:31:32,390 --> 00:31:30,570

society either they drink responsibly

723

00:31:34,490 --> 00:31:32,400

and I think that's a very important

724

00:31:36,169 --> 00:31:34,500

message and now what do you think is the

725

00:31:37,760 --> 00:31:36,179

next big challenge then I mean obviously

726

00:31:39,230 --> 00:31:37,770

I can see yourselves you're going to

727

00:31:40,490 --> 00:31:39,240

strap this off to a wind turbine and

728

00:31:42,740 --> 00:31:40,500

gets spun around to prove they are

729

00:31:44,419 --> 00:31:42,750

completely safe I look the biggest

730

00:31:48,440 --> 00:31:44,429

challenge I think that we face in public

731

00:31:51,080 --> 00:31:48,450

health is the challenge of convincing

732

00:31:54,080 --> 00:31:51,090

the world that they really need to take

733

00:31:56,120 --> 00:31:54,090

global warming very very seriously as

734

00:31:58,400 --> 00:31:56,130

depressed as a lot of people are about

735

00:32:01,100 --> 00:31:58,410

the state of this country is a debate

736

00:32:07,190 --> 00:32:01,110

about this at the moment and the erosion

737

00:32:08,990 --> 00:32:07,200

of I guess the the credibility of the

738

00:32:10,430 --> 00:32:09,000

sort of the whole science because of the

739

00:32:12,320 --> 00:32:10,440

spin doctoring and the media

740

00:32:14,180 --> 00:32:12,330

concentration which has been sort of

741

00:32:16,310 --> 00:32:14,190

ganging up against it I think is a

742

00:32:17,990 --> 00:32:16,320

really really big challenge for all of

743

00:32:20,030 --> 00:32:18,000

us who are working in science to turn

744

00:32:21,320 --> 00:32:20,040

and really turn that around you think

745

00:32:22,820 --> 00:32:21,330

you've got the same problems with the

746

00:32:25,130 --> 00:32:22,830

anti-vaccination movement where you have

747

00:32:27,470 --> 00:32:25,140

someone who has credentials and usually

748

00:32:30,049 --> 00:32:27,480

up against them is not so much yeah

749

00:32:32,030 --> 00:32:30,059

that's right I mean you know it's been

750

00:32:33,950 --> 00:32:32,040

said many times that I'll say it again

751  
00:32:37,460 --> 00:32:33,960  
as worth saying that if you went along

752  
00:32:39,140 --> 00:32:37,470  
to a doctor and the doctor said do it

753  
00:32:41,419 --> 00:32:39,150  
along to 99 doctors and they said yes

754  
00:32:43,010 --> 00:32:41,429  
you do have a cancer you need to you

755  
00:32:45,710 --> 00:32:43,020  
know we need to operate on this you went

756  
00:32:46,910 --> 00:32:45,720  
along to one is it well no you don't you

757  
00:32:48,890 --> 00:32:46,920  
know what sort of person would sort of

758  
00:32:50,810 --> 00:32:48,900  
go with the one you know and that's the

759  
00:32:53,000 --> 00:32:50,820  
situation we have with global warming

760  
00:32:55,190 --> 00:32:53,010  
climate change that we have the

761  
00:32:57,650 --> 00:32:55,200  
overwhelming proportion of scientists

762  
00:32:58,910 --> 00:32:57,660  
who say that this is a big problem and

763  
00:33:00,830 --> 00:32:58,920

we need to do something about it

764

00:33:02,630 --> 00:33:00,840

congratulations on your would imagine a

765

00:33:03,860 --> 00:33:02,640

bar tab goes with this does it or you

766

00:33:06,710 --> 00:33:03,870

know something that's public health

767

00:33:08,330 --> 00:33:06,720

friendly well I don't know I haven't had

768

00:33:10,909 --> 00:33:08,340

that pleasure yet but I'm looking

769

00:33:12,380 --> 00:33:10,919

forward to look at congratulations once

770

00:33:15,290 --> 00:33:12,390

again and thank you for your work thanks

771

00:33:18,470 --> 00:33:15,300

a lot I've just been wandering aimlessly

772

00:33:20,450 --> 00:33:18,480

through the the vaults and areas and car

773

00:33:21,799 --> 00:33:20,460

parks of the anu which is what i'll

774

00:33:23,270 --> 00:33:21,809

usually like to do at this time on

775

00:33:24,950 --> 00:33:23,280

sunday anyway but this time I've been

776

00:33:26,990 --> 00:33:24,960

doing it with a mission who we got here

777

00:33:29,090 --> 00:33:27,000

hi I'm Chris Kennedy I'm the director of

778

00:33:30,440 --> 00:33:29,100

the CSIRO Discovery Center and you've

779

00:33:32,330 --> 00:33:30,450

got a great discovery center there we've

780

00:33:34,100 --> 00:33:32,340

been playing in it all weekend they're

781

00:33:35,570 --> 00:33:34,110

very good very hands-on very fun yeah

782

00:33:38,450 --> 00:33:35,580

and it's really difficult to break as

783

00:33:39,919 --> 00:33:38,460

well it's childproof no nothing is

784

00:33:42,020 --> 00:33:39,929

childproof of a child can work out how

785

00:33:43,580 --> 00:33:42,030

to break something they will do it and

786

00:33:45,470 --> 00:33:43,590

now we're here in the area the way the

787

00:33:47,510 --> 00:33:45,480

kids aren't normally allowed and we're

788

00:33:50,180 --> 00:33:47,520

in front of this beautiful mural that

789

00:33:52,310 --> 00:33:50,190

dates back to the early 60s and it's

790

00:33:54,200 --> 00:33:52,320

about science and the history of it

791

00:33:56,150 --> 00:33:54,210

please explain in this beautiful mural

792

00:33:58,790 --> 00:33:56,160

that not many people get to see yeah so

793

00:34:00,560 --> 00:33:58,800

we're in the foyer of CSIRO land

794

00:34:02,600 --> 00:34:00,570

water laboratory which was built in

795

00:34:05,420 --> 00:34:02,610

nineteen sixty three and the wall that

796

00:34:10,760 --> 00:34:05,430

we're standing in front of went up first

797

00:34:13,610 --> 00:34:10,770

it's about a 66 x 2 meter wall and yeah

798

00:34:15,740 --> 00:34:13,620

so that while this artist that was

799

00:34:17,930 --> 00:34:15,750

commissioned to work on it worked across

800

00:34:19,580 --> 00:34:17,940

the year they built the laboratory

801  
00:34:21,110 --> 00:34:19,590  
around him so these great photos of him

802  
00:34:23,419 --> 00:34:21,120  
you know when his raincoat or in the

803  
00:34:27,500 --> 00:34:23,429  
Canberra free freezing cold in winter in

804  
00:34:29,870 --> 00:34:27,510  
Canberra in 1963 this mural it's a mural

805  
00:34:31,430 --> 00:34:29,880  
it's called the land research mural and

806  
00:34:34,910 --> 00:34:31,440  
it was commissioned by ian clooney's

807  
00:34:36,350 --> 00:34:34,920  
ross to communicate the kind of work

808  
00:34:40,430 --> 00:34:36,360  
that was going to be done out of this

809  
00:34:43,160 --> 00:34:40,440  
laboratory and these are the laboratory

810  
00:34:45,950 --> 00:34:43,170  
in 1963 although it's changed purpose

811  
00:34:47,750 --> 00:34:45,960  
over the years was looking at some

812  
00:34:50,180 --> 00:34:47,760  
finding production productive

813  
00:34:52,310 --> 00:34:50,190

agricultural land in Australia in that

814

00:34:55,490 --> 00:34:52,320

kind of post-war years populations

815

00:34:56,960 --> 00:34:55,500

rapidly growing how are we going to feed

816

00:34:59,210 --> 00:34:56,970

these people where are we going to move

817

00:35:02,870 --> 00:34:59,220

them to so these guys did the very first

818

00:35:04,550 --> 00:35:02,880

old river feasibility studies etc opened

819

00:35:06,880 --> 00:35:04,560

up a lot of that kind of you know back

820

00:35:10,900 --> 00:35:06,890

of Bourke literally back of Bourke land

821

00:35:14,210 --> 00:35:10,910

and so the artist is Robert in pen and

822

00:35:16,700 --> 00:35:14,220

he became a lot more famous afterwards

823

00:35:19,850 --> 00:35:16,710

at the I mean he's still alive he's in

824

00:35:23,480 --> 00:35:19,860

his eighties he does children's books he

825

00:35:26,000 --> 00:35:23,490

died Peter Pan came out this year and he

826

00:35:28,580 --> 00:35:26,010

designed the Northern Territory flag he

827

00:35:30,440 --> 00:35:28,590

and some chums from sorrow at that time

828

00:35:34,040 --> 00:35:30,450

started the Australian Conservation

829

00:35:36,650 --> 00:35:34,050

Foundation but as you can see i'm sorry

830

00:35:38,780 --> 00:35:36,660

view her listeners a beautiful

831

00:35:41,180 --> 00:35:38,790

illustrator so this is a watercolor

832

00:35:46,120 --> 00:35:41,190

mural and he actually came back last

833

00:35:50,120 --> 00:35:48,740

crumbling bits of the mural those yolks

834

00:35:52,280 --> 00:35:50,130

now was this originally designed to be

835

00:35:53,810 --> 00:35:52,290

outdoors it was an outdoor mural or not

836

00:35:55,640 --> 00:35:53,820

and it was always meant for the foyer

837

00:35:57,470 --> 00:35:55,650

and that's why the color has been so

838

00:35:59,390 --> 00:35:57,480

well preserved over the years a very

839

00:36:03,380 --> 00:35:59,400

vibrant kind of blues and reds and

840

00:36:07,010 --> 00:36:03,390

oranges throughout and so in this kind

841

00:36:09,890 --> 00:36:07,020

of swirling pattern he has he's telling

842

00:36:11,920 --> 00:36:09,900

the story of the evolution of us of

843

00:36:14,740 --> 00:36:11,930

scientific thought of agri

844

00:36:18,850 --> 00:36:14,750

cultural thought so what we have over

845

00:36:22,000 --> 00:36:18,860

here is kind of the history of evolution

846

00:36:23,950 --> 00:36:22,010

of botany the evolution of the species

847

00:36:27,000 --> 00:36:23,960

there's a trilobite and we're going up

848

00:36:30,810 --> 00:36:27,010

to man and then his agricultural

849

00:36:33,550 --> 00:36:30,820

productivity from you know very early

850

00:36:36,010 --> 00:36:33,560

kind of beginning of settlement farming

851  
00:36:39,220 --> 00:36:36,020  
through to contemporary farming there's

852  
00:36:41,830 --> 00:36:39,230  
crop rotation yeah and also very

853  
00:36:44,200 --> 00:36:41,840  
interestingly as we kind of segue

854  
00:36:48,550 --> 00:36:44,210  
through the development of the farm here

855  
00:36:49,780 --> 00:36:48,560  
in 1963 is his computer he's so what we

856  
00:36:53,200 --> 00:36:49,790  
were looking at is really just a whole

857  
00:36:55,180 --> 00:36:53,210  
bunch of wires in a grid but this is his

858  
00:36:57,100 --> 00:36:55,190  
idea of that the future of farming is

859  
00:36:59,710 --> 00:36:57,110  
the computer so he was very uh you know

860  
00:37:01,630 --> 00:36:59,720  
aware of what was going on in 1963 it's

861  
00:37:04,570 --> 00:37:01,640  
also a bit fascist because you'll notice

862  
00:37:08,050 --> 00:37:04,580  
them he has this very idealized man at

863  
00:37:11,800 --> 00:37:08,060

the end and and the entire purpose of

864

00:37:14,530 --> 00:37:11,810

his mural is population sustainability

865

00:37:16,780 --> 00:37:14,540

that's the question oh okay I don't see

866

00:37:18,550 --> 00:37:16,790

a lot of indigenous population reflected

867

00:37:21,460 --> 00:37:18,560

in the mural either no not particularly

868

00:37:25,330 --> 00:37:21,470

but what's fought for us this weekend

869

00:37:28,870 --> 00:37:25,340

it's the 24th of November now so 50

870

00:37:31,300 --> 00:37:28,880

years and one day ago Robert incan was

871

00:37:33,340 --> 00:37:31,310

working on this mural he was painting

872

00:37:35,860 --> 00:37:33,350

this section that looks at um history of

873

00:37:38,590 --> 00:37:35,870

mankind he just painted the atomic bomb

874

00:37:40,030 --> 00:37:38,600

and the skull and someone came running

875

00:37:41,920 --> 00:37:40,040

up from Bruce College across the road

876

00:37:43,330 --> 00:37:41,930

where he had been staying to tell him

877

00:37:46,300 --> 00:37:43,340

that President Kennedy had been

878

00:37:48,430 --> 00:37:46,310

assassinated so mr. Inkpen painted a

879

00:37:50,770 --> 00:37:48,440

black border around the American flag he

880

00:37:54,850 --> 00:37:50,780

drew the president's car and then they

881

00:37:56,290 --> 00:37:54,860

went to the pub Wow and there it is I

882

00:37:58,390 --> 00:37:56,300

was because you mentioned it earlier

883

00:38:00,610 --> 00:37:58,400

it's just in there as a little snippet

884

00:38:03,400 --> 00:38:00,620

in history it starts as gorgeous its

885

00:38:05,890 --> 00:38:03,410

tear tingling and he's been back and

886

00:38:08,260 --> 00:38:05,900

told me the story personally I it's very

887

00:38:11,140 --> 00:38:08,270

exciting an exciting piece of artwork

888

00:38:13,600 --> 00:38:11,150

that no one gets to say very iconic and

889

00:38:14,830 --> 00:38:13,610

important I think Richard Saunders is

890

00:38:15,880 --> 00:38:14,840

just you as well having a look at it

891

00:38:18,070 --> 00:38:15,890

there this is the first time you've seen

892

00:38:19,720 --> 00:38:18,080

this Richard ESO heard about this but

893

00:38:21,670 --> 00:38:19,730

it's marvelous to have a look at it

894

00:38:23,680 --> 00:38:21,680

colors are the details and the colors

895

00:38:25,120 --> 00:38:23,690

are so vivid aren't they and the more

896

00:38:27,910 --> 00:38:25,130

you look at it the more there is to see

897

00:38:31,390 --> 00:38:27,920

now what is it about 34 meters across by

898

00:38:33,070 --> 00:38:31,400

maybe a meter and a half up so it's not

899

00:38:35,170 --> 00:38:33,080

a small piece of work but it's so

900

00:38:37,510 --> 00:38:35,180

complicated I think you could study this

901  
00:38:38,859 --> 00:38:37,520  
for hours yeah I think you'd have to get

902  
00:38:40,510 --> 00:38:38,869  
a shot of this to put up online so

903  
00:38:41,680 --> 00:38:40,520  
people can have it have at least a bit

904  
00:38:43,930 --> 00:38:41,690  
of an idea what we're talking about here

905  
00:38:45,430 --> 00:38:43,940  
visually under the ocean look at that if

906  
00:38:47,260 --> 00:38:45,440  
we look down it's all gone blue and

907  
00:38:49,180 --> 00:38:47,270  
there's lots of fish and also that's the

908  
00:38:52,120 --> 00:38:49,190  
evolution from the seat man there that

909  
00:38:53,770 --> 00:38:52,130  
bit Wow actually what's your favorite

910  
00:38:55,720 --> 00:38:53,780  
part apart that they had the dramatic

911  
00:38:57,310 --> 00:38:55,730  
bit with the assassination of Kennedy is

912  
00:38:58,810 --> 00:38:57,320  
it one that you go that's interesting

913  
00:39:02,290 --> 00:38:58,820

people should look at that bit more well

914

00:39:04,359 --> 00:39:02,300

I'm Stein appears that this is I'm Stein

915

00:39:06,130 --> 00:39:04,369

with this i equals mc-squared building

916

00:39:08,650 --> 00:39:06,140

it up on a on a chalkboard is little

917

00:39:10,180 --> 00:39:08,660

table diesel yeah yeah I mean I like

918

00:39:12,550 --> 00:39:10,190

this kind of you know this almost

919

00:39:15,670 --> 00:39:12,560

steampunk um you know the wheels of

920

00:39:19,930 --> 00:39:15,680

society grinding them and turning around

921

00:39:21,640 --> 00:39:19,940

but I mean for me this this big

922

00:39:25,660 --> 00:39:21,650

scientific question that is trying to

923

00:39:27,340 --> 00:39:25,670

answer is the most exciting csiro did a

924

00:39:29,770 --> 00:39:27,350

number of studies over that kind of

925

00:39:32,950 --> 00:39:29,780

intervening 50 years in one day since he

926

00:39:35,830 --> 00:39:32,960

painted this and you know asking what is

927

00:39:37,540 --> 00:39:35,840

the ass sustainable population of a

928

00:39:40,330 --> 00:39:37,550

country like Australia obviously it

929

00:39:41,620 --> 00:39:40,340

changes and evolves a few years ago some

930

00:39:44,440 --> 00:39:41,630

of those studies were saying the number

931

00:39:46,570 --> 00:39:44,450

is something closer to 14 million of

932

00:39:48,280 --> 00:39:46,580

course we've gone way past that and so

933

00:39:49,359 --> 00:39:48,290

that's why you know the work that's

934

00:39:52,240 --> 00:39:49,369

being done in this building is so

935

00:39:54,099 --> 00:39:52,250

important because at technologies change

936

00:39:57,340 --> 00:39:54,109

to help us some change the answer to

937

00:39:59,380 --> 00:39:57,350

that question I think look and it's and

938

00:40:00,790 --> 00:39:59,390

also if you worked here you would tend

939

00:40:02,440 --> 00:40:00,800

to get used to it and walk past it

940

00:40:03,849 --> 00:40:02,450

almost every day but you seem to be in

941

00:40:05,740 --> 00:40:03,859

awe of it even though you do see they're

942

00:40:08,260 --> 00:40:05,750

fairly often I'll think it's beautiful in

943

00:40:09,310 --> 00:40:08,270

fact it's at one point in the 70s there

944

00:40:10,630 --> 00:40:09,320

so there's a little guard rail

945

00:40:12,490 --> 00:40:10,640

protecting it from people although

946

00:40:16,210 --> 00:40:12,500

people do tend to and use the guard rail

947

00:40:18,940 --> 00:40:16,220

to lean up on at one point in the 70s

948

00:40:22,420 --> 00:40:18,950

I'm told they talked about putting Mason

949

00:40:24,099 --> 00:40:22,430

I over it to protect it and you know in

950

00:40:25,720 --> 00:40:24,109

turning this area into an office which

951  
00:40:28,000 --> 00:40:25,730  
would have been a travesty it's lovely

952  
00:40:30,050 --> 00:40:28,010  
that are still around and so gorgeous I

953  
00:40:32,270 --> 00:40:30,060  
love that

954  
00:40:34,670 --> 00:40:32,280  
we're putting it behind a wall certainly

955  
00:40:36,440 --> 00:40:34,680  
would protect it well and truly but then

956  
00:40:39,260 --> 00:40:36,450  
it would then 10 years they don't might

957  
00:40:42,140 --> 00:40:39,270  
forget it's even there yeah what what I

958  
00:40:44,510 --> 00:40:42,150  
think is that inking pen talked about

959  
00:40:47,300 --> 00:40:44,520  
when he came up here he said this is

960  
00:40:50,540 --> 00:40:47,310  
kind of the original PowerPoint this the

961  
00:40:52,430 --> 00:40:50,550  
idea behind this was you know you had it

962  
00:40:54,110 --> 00:40:52,440  
in the 60s you have a client in your

963  
00:40:55,910 --> 00:40:54,120

office you're trying to explain you know

964

00:40:58,640 --> 00:40:55,920

some agricultural technique or con

965

00:41:00,830 --> 00:40:58,650

scientific concept you know a pre

966

00:41:02,810 --> 00:41:00,840

computers drag them out into the foyer

967

00:41:04,100 --> 00:41:02,820

point to the mural let's talk about you

968

00:41:06,920 --> 00:41:04,110

know crop rotation let's talk about

969

00:41:08,240 --> 00:41:06,930

whatever yeah fascinating look thank you

970

00:41:12,230 --> 00:41:08,250

for showing is this this is a great

971

00:41:13,790 --> 00:41:12,240

thank you welcome because what I'd like

972

00:41:15,380 --> 00:41:13,800

to do it every convention is to get

973

00:41:17,030 --> 00:41:15,390

around and talk to the people that are

974

00:41:18,500 --> 00:41:17,040

presenting but also talk to the people

975

00:41:21,530 --> 00:41:18,510

that are just here to have a look around

976  
00:41:23,390 --> 00:41:21,540  
who we got danville arm and what's your

977  
00:41:25,280 --> 00:41:23,400  
interest here you're a longtime skeptic

978  
00:41:27,770 --> 00:41:25,290  
fellow traveler just a general

979  
00:41:31,250 --> 00:41:27,780  
troublemaker a general troublemaker for

980  
00:41:33,110 --> 00:41:31,260  
the anti Max's ah now that obviously is

981  
00:41:34,250 --> 00:41:33,120  
a passion that burns with you how did

982  
00:41:35,900 --> 00:41:34,260  
you get involved with it why did you

983  
00:41:39,590 --> 00:41:35,910  
decide okay I have to stand up and say

984  
00:41:41,900 --> 00:41:39,600  
something ah well that started in 2010

985  
00:41:44,960 --> 00:41:41,910  
when Meryl dori came to Perth and

986  
00:41:47,210 --> 00:41:44,970  
received a lot of media attention from

987  
00:41:48,530 --> 00:41:47,220  
oh yes I remember that did she end up

988  
00:41:49,880 --> 00:41:48,540

resenting anywhere because she was at

989

00:41:52,460 --> 00:41:49,890

one stage claiming that the Chi was

990

00:41:55,070 --> 00:41:52,470

under threat and she did end up

991

00:41:56,720 --> 00:41:55,080

resenting at the state library was at

992

00:41:59,210 --> 00:41:56,730

the time this year was receiving a lot

993

00:42:01,970 --> 00:41:59,220

of negative attention from the hatred

994

00:42:05,260 --> 00:42:01,980

will see that recently revoked their

995

00:42:08,220 --> 00:42:05,270

charity fundraising license

996

00:42:11,100 --> 00:42:08,230

and that's when I first got involved and

997

00:42:13,990 --> 00:42:11,110

yeah it all started from there and then

998

00:42:15,460 --> 00:42:14,000

2012 she took out a court should try to

999

00:42:18,250 --> 00:42:15,470

obtain a court order against myself

1000

00:42:22,180 --> 00:42:18,260

Peter bowditch and Daniel Rafael to

1001

00:42:25,110 --> 00:42:22,190

silence us on the internet which was

1002

00:42:27,190 --> 00:42:25,120

only resolved in august of this year

1003

00:42:31,410 --> 00:42:27,200

resulting in her paying the eleven

1004

00:42:34,150 --> 00:42:31,420

thousand dollars in my legal expenses so

1005

00:42:37,300 --> 00:42:34,160

has this in any way slowed you down in

1006

00:42:39,390 --> 00:42:37,310

your activism I know if anything the

1007

00:42:41,710 --> 00:42:39,400

fact that she's trying to silence

1008

00:42:43,330 --> 00:42:41,720

science myself and the others it just

1009

00:42:45,190 --> 00:42:43,340

shows that we are eventually getting to

1010

00:42:49,840 --> 00:42:45,200

her and having an effect on her

1011

00:42:51,070 --> 00:42:49,850

organization I endo out have you admit

1012

00:42:53,560 --> 00:42:51,080

the woman have you ever actually had a

1013

00:42:56,410 --> 00:42:53,570

chance to have a ever word with her at

1014

00:42:59,680 --> 00:42:56,420

all no I've only ever once been in the

1015

00:43:03,460 --> 00:42:59,690

same building as her which was during

1016

00:43:04,630 --> 00:43:03,470

her seminar in 2010 hmm and what did you

1017

00:43:06,280 --> 00:43:04,640

make of the seminar you were there

1018

00:43:08,230 --> 00:43:06,290

obviously taking notes and now did you

1019

00:43:09,610 --> 00:43:08,240

uh did you stand up and say anything a

1020

00:43:11,980 --> 00:43:09,620

time put your hand up or anything at the

1021

00:43:14,110 --> 00:43:11,990

question time at the end was it I know

1022

00:43:17,830 --> 00:43:14,120

at that point I just left there's only

1023

00:43:19,510 --> 00:43:17,840

so much of dori there at one can take so

1024

00:43:21,310 --> 00:43:19,520

what are you looking at next is it some

1025

00:43:22,900 --> 00:43:21,320

other other issue on the net that you

1026

00:43:24,100 --> 00:43:22,910

feel like you might like to take on I

1027

00:43:25,570 --> 00:43:24,110

mean you've been a bit of a bit of a

1028

00:43:26,890 --> 00:43:25,580

single issue so far and I can certainly

1029

00:43:28,600 --> 00:43:26,900

understand you're concentrating on that

1030

00:43:31,600 --> 00:43:28,610

but I want to spread your wings a little

1031

00:43:34,210 --> 00:43:31,610

bit yes I homeopathy continues to be a

1032

00:43:36,400 --> 00:43:34,220

problem and nobody sees the major

1033

00:43:38,080 --> 00:43:36,410

problem with it it's people just

1034

00:43:39,880 --> 00:43:38,090

hydrating themselves if indeed there is

1035

00:43:41,470 --> 00:43:39,890

nothing in there they're just having a

1036

00:43:45,730 --> 00:43:41,480

drink of water basically aren't they I

1037

00:43:48,700 --> 00:43:45,740

know it's when someone such as Francine

1038

00:43:50,890 --> 00:43:48,710

sprayin in Perth convinces one of their

1039

00:43:52,840 --> 00:43:50,900

patient or their victims to give up

1040

00:43:54,880 --> 00:43:52,850

conventional cancer treatment in favor

1041

00:43:57,570 --> 00:43:54,890

of sugar pills and then the patient

1042

00:43:59,670 --> 00:43:57,580

ultimately dies as a result

1043

00:44:02,610 --> 00:43:59,680

and what is the main way you want to act

1044

00:44:05,820 --> 00:44:02,620

against that I haven't decided what the

1045

00:44:08,520 --> 00:44:05,830

best approach for this one is yet yeah

1046

00:44:11,160 --> 00:44:08,530

and it is a central forum is it asserts

1047

00:44:14,700 --> 00:44:11,170

is the organization similarly based to

1048

00:44:16,890 --> 00:44:14,710

the avn I know home you know they do

1049

00:44:19,010 --> 00:44:16,900

have a homeopathic Association but they

1050

00:44:21,180 --> 00:44:19,020

seem to be much more independently

1051  
00:44:24,300 --> 00:44:21,190  
operating than the anti-vaxxers which

1052  
00:44:25,200 --> 00:44:24,310  
makes it harder to target okay well I

1053  
00:44:26,460 --> 00:44:25,210  
think we'll be talking to you about

1054  
00:44:29,220 --> 00:44:26,470  
something like this at next year's

1055  
00:44:47,800 --> 00:44:29,230  
conference I feel yes hopefully there'll

1056  
00:44:51,950 --> 00:44:50,330  
hey this is Jay novella from the

1057  
00:44:53,870 --> 00:44:51,960  
skeptics guide to the universe podcast

1058  
00:44:55,730 --> 00:44:53,880  
did you know that there are thousands of

1059  
00:44:57,440 --> 00:44:55,740  
skeptical reports interviews and

1060  
00:45:00,170 --> 00:44:57,450  
investigations going back to nineteen

1061  
00:45:03,410 --> 00:45:00,180  
eighty one free to download just visit w

1062  
00:45:05,330 --> 00:45:03,420  
WC optics com a you click the

1063  
00:45:07,310 --> 00:45:05,340

publications link and enjoy almost every

1064

00:45:09,260 --> 00:45:07,320

back issue of the skeptic the journal

1065

00:45:10,820 --> 00:45:09,270

from Australian skeptics you can also

1066

00:45:13,100 --> 00:45:10,830

subscribe online and get the latest

1067

00:45:15,110 --> 00:45:13,110

digital or hard copy of this the world's

1068

00:45:18,800 --> 00:45:15,120

second oldest skeptical magazine that's

1069

00:45:34,990 --> 00:45:18,810

ww skeptics Comte you or just google

1070

00:45:41,359 --> 00:45:37,370

thank you for listening to the skeptic

1071

00:45:44,900 --> 00:45:41,369

zone on this hot day in Sydney and

1072

00:45:46,760 --> 00:45:44,910

around Australia I'm just having a look

1073

00:45:49,490 --> 00:45:46,770

over to the corner there the TV's got

1074

00:45:52,210 --> 00:45:49,500

the news on Victorian fires emergency

1075

00:45:54,740 --> 00:45:52,220

warnings going on right now as I speak

1076

00:45:56,839 --> 00:45:54,750

coming up on the skeptic zone in the

1077

00:45:58,730 --> 00:45:56,849

coming weeks even more from Maynard at

1078

00:46:02,960 --> 00:45:58,740

the National Convention with more

1079

00:46:05,630 --> 00:46:02,970

insights and interviews Wow I mean I

1080

00:46:07,280 --> 00:46:05,640

knew he was busy at the time my friends

1081

00:46:08,720 --> 00:46:07,290

but when I looked down a list of

1082

00:46:10,070 --> 00:46:08,730

interviews he's actually given me it's

1083

00:46:12,589 --> 00:46:10,080

staggering I don't think he actually

1084

00:46:14,870 --> 00:46:12,599

made it to bed at all he must have been

1085

00:46:16,120 --> 00:46:14,880

up all night in doing people and again

1086

00:46:18,200 --> 00:46:16,130

thank you to all the people who

1087

00:46:20,000 --> 00:46:18,210

sponsored Maynard chipped in a little

1088

00:46:22,040 --> 00:46:20,010

bit of money to cover his costs in

1089

00:46:26,030 --> 00:46:22,050

Melbourne was fantastic a great use of

1090

00:46:27,260 --> 00:46:26,040

your contribution as you now know over

1091

00:46:29,210 --> 00:46:27,270

the weeks and weeks of wonderful

1092

00:46:32,690 --> 00:46:29,220

interviews from Maynard Thank You

1093

00:46:36,260 --> 00:46:32,700

Maynard and if you want to help produce

1094

00:46:38,900 --> 00:46:36,270

the skeptic zone just go to [www skeptics](http://www.skeptics)

1095

00:46:41,810 --> 00:46:38,910

own TV at the top there's a link and for

1096

00:46:44,780 --> 00:46:41,820

just 99 cents a week you can really help

1097

00:46:47,210 --> 00:46:44,790

our the skeptic zone via micro payments

1098

00:46:51,800 --> 00:46:47,220

with paypal well it's time for me to

1099

00:46:54,620 --> 00:46:51,810

have another slug of this ice water it's

1100

00:46:56,750 --> 00:46:54,630

disappearing fast and I'll look forward

1101

00:46:58,700 --> 00:46:56,760

to your company next week on the

1102

00:47:01,880 --> 00:46:58,710

skipping zone but for now this is

1103

00:47:08,540 --> 00:47:01,890

Richard Saunders signing off from a very

1104

00:47:11,120 --> 00:47:08,550

hot and steamy Sydney Australia you've

1105

00:47:15,950 --> 00:47:11,130

been listening to the skeptic zone

1106

00:47:19,010 --> 00:47:15,960

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