

The Skeptic Zone  
Show 329 - 8 Feb 2015

A woman with short, wavy brown hair is shown from the chest up. She is wearing a white lab coat over a patterned shirt. She is seated at a desk with a black microphone in front of her. To her left, a black camera lens is visible on a stand. The background is a plain, light-colored wall.

Dr Rachie

1  
00:00:22,370 --> 00:00:09,089  
welcome to the skeptic zone the podcast

2  
00:00:28,980 --> 00:00:25,050  
hello and welcome to the skeptic zone

3  
00:00:32,339 --> 00:00:28,990  
episode number 329 for the eighth of

4  
00:00:35,420 --> 00:00:32,349  
februari 2015 happy birthday happy

5  
00:00:38,280 --> 00:00:35,430  
birthday to you um if it's your birthday

6  
00:00:40,290 --> 00:00:38,290  
if it's not your birthday I think

7  
00:00:42,150 --> 00:00:40,300  
there's a song about that from one of

8  
00:00:44,759 --> 00:00:42,160  
the Disney movies isn't very merry

9  
00:00:47,640 --> 00:00:44,769  
unbirthday happy birthday to all those

10  
00:00:49,799 --> 00:00:47,650  
people having a birthday of course I'm

11  
00:00:52,889 --> 00:00:49,809  
surprised I don't say this every week no

12  
00:00:54,830 --> 00:00:52,899  
I'm not that would be a tedious mmm so

13  
00:00:57,540 --> 00:00:54,840

eight of every people you're very lucky

14

00:01:00,060 --> 00:00:57,550

coming up on this week's show we catch

15

00:01:03,869 --> 00:01:00,070

up with one of our foundation members of

16

00:01:06,510 --> 00:01:03,879

the skeptic zone dr. Richie dr. 'he who

17

00:01:09,480 --> 00:01:06,520

has been sort of on leave from the

18

00:01:12,660 --> 00:01:09,490

skeptic zone owing to a her extremely

19

00:01:15,210 --> 00:01:12,670

important scientific research hardly any

20

00:01:16,980 --> 00:01:15,220

time to do anything dr. ray cheese off

21

00:01:19,800 --> 00:01:16,990

to melbourne to live for a while and

22

00:01:22,680 --> 00:01:19,810

then off for other adventures however

23

00:01:24,899 --> 00:01:22,690

maynard catches up with dr. Reggie just

24

00:01:27,330 --> 00:01:24,909

the other day when we had skeptics in

25

00:01:29,810 --> 00:01:27,340

the pub here in sydney what's dr. Richie

26  
00:01:33,990 --> 00:01:29,820  
up to now what's her thoughts about the

27  
00:01:36,600 --> 00:01:34,000  
state of scientific funding in Australia

28  
00:01:39,870 --> 00:01:36,610  
find out at the top of the show and then

29  
00:01:42,990 --> 00:01:39,880  
it's the raw skeptic report with the raw

30  
00:01:46,350 --> 00:01:43,000  
skeptic her self Heidi Robertson heidi's

31  
00:01:48,120 --> 00:01:46,360  
going to be giving us some an update and

32  
00:01:51,870 --> 00:01:48,130  
update about a story she did a few weeks

33  
00:01:56,370 --> 00:01:51,880  
ago about raw milk do people really

34  
00:01:59,429 --> 00:01:56,380  
bathe in raw milk hmm I want evidence of

35  
00:02:01,639 --> 00:01:59,439  
that I suppose they do you'd have to buy

36  
00:02:06,330 --> 00:02:01,649  
an awful lot of it to fill up your tub

37  
00:02:09,630 --> 00:02:06,340  
jump in and hmm anyway an update about

38  
00:02:11,789 --> 00:02:09,640

raw milk with Heidi Robinson coming up

39

00:02:14,850 --> 00:02:11,799

and you might notice that Heidi's report

40

00:02:16,560 --> 00:02:14,860

sounds even better this week because

41

00:02:18,509 --> 00:02:16,570

thanks to the ongoing support and

42

00:02:21,360 --> 00:02:18,519

generosity of listeners just like you oh

43

00:02:24,930 --> 00:02:21,370

happy birthday by the way I was able to

44

00:02:26,880 --> 00:02:24,940

buy Heidi a wonderful new zoom h2n

45

00:02:29,729 --> 00:02:26,890

microphone the one I'm using right now

46

00:02:31,289 --> 00:02:29,739

and I don't get any kickbacks from zoom

47

00:02:33,840 --> 00:02:31,299

by the way but it just happens to be a

48

00:02:36,900 --> 00:02:33,850

nice microphone for podcasting

49

00:02:40,950 --> 00:02:36,910

I bought that for Heidi posted it off to

50

00:02:43,140 --> 00:02:40,960

her and she's using that now so you know

51  
00:02:45,450 --> 00:02:43,150  
when when you do chip in to the skeptic

52  
00:02:48,180 --> 00:02:45,460  
zone your money actually goes back into

53  
00:02:51,960 --> 00:02:48,190  
the skeptic zone for four very good uses

54  
00:02:54,660 --> 00:02:51,970  
and after that we catch up with dr. Bob

55  
00:02:57,930 --> 00:02:54,670  
the mysterious dr. Bob from dr. Bob's

56  
00:03:01,740 --> 00:02:57,940  
trivia quiz now dr. Bob also known as

57  
00:03:04,020 --> 00:03:01,750  
dr. Steve Roberts is a sponsor of the

58  
00:03:06,990 --> 00:03:04,030  
skeptic zone and we greatly greatly

59  
00:03:08,520 --> 00:03:07,000  
appreciate his help in bringing you the

60  
00:03:11,940 --> 00:03:08,530  
skeptic zone each week so we catch up

61  
00:03:14,520 --> 00:03:11,950  
with Steve have a little chat to him and

62  
00:03:17,430 --> 00:03:14,530  
over the coming weeks we he drops by and

63  
00:03:19,830 --> 00:03:17,440

has some more chats Steve Roberts is a

64

00:03:22,470 --> 00:03:19,840

longtime skeptic he's a life member of

65

00:03:24,870 --> 00:03:22,480

Australian skeptics he's investing has

66

00:03:26,940 --> 00:03:24,880

many things he has a love for

67

00:03:30,030 --> 00:03:26,950

investigating UFOs and things like that

68

00:03:33,450 --> 00:03:30,040

so we'll find out more about Steve

69

00:03:36,120 --> 00:03:33,460

Roberts also known as the mysterious dr.

70

00:03:38,130 --> 00:03:36,130

Bob and following that it's a weakened

71

00:03:42,210 --> 00:03:38,140

science from the Royal Institution of

72

00:03:44,640 --> 00:03:42,220

Australia www RI aus org dot a you what

73

00:03:48,660 --> 00:03:44,650

a popular segment that is no what's that

74

00:03:51,510 --> 00:03:48,670

oh it's Fred the cat hello Fred how are

75

00:03:53,820 --> 00:03:51,520

you yeah Fred yes the Fred the skeptical

76

00:03:55,500 --> 00:03:53,830

skeptic zone cat I think Fred's only

77

00:03:57,540 --> 00:03:55,510

skeptical when he doesn't get his dinner

78

00:04:02,820 --> 00:03:57,550

actually yes that's when Fred's most

79

00:04:05,400 --> 00:04:02,830

skeptical then to round off the show

80

00:04:07,800 --> 00:04:05,410

Maynard spooky action may not visit

81

00:04:11,280 --> 00:04:07,810

skeptics in the pub here in Sydney and

82

00:04:15,289 --> 00:04:11,290

ask the big question now we've had news

83

00:04:19,710 --> 00:04:15,299

of james randi retiring and at 86 well

84

00:04:22,680 --> 00:04:19,720

why not I guess I may not asks pub goers

85

00:04:25,980 --> 00:04:22,690

in Sydney does the skeptical movement

86

00:04:29,700 --> 00:04:25,990

need another figurehead like James Randi

87

00:04:32,520 --> 00:04:29,710

and can he be replaced and right at the

88

00:04:34,290 --> 00:04:32,530

end Maynard catches up with dr. Kyle

89

00:04:38,820 --> 00:04:34,300

crucial miss key a couple of weeks ago

90

00:04:40,909 --> 00:04:38,830

at the triple j party here in sydney dr.

91

00:04:43,920 --> 00:04:40,919

Cole of course a longtime supporter of

92

00:04:47,100 --> 00:04:43,930

science and reason in this country you

93

00:04:49,350 --> 00:04:47,110

might think of him as Australia's bill

94

00:04:51,480 --> 00:04:49,360

nye the science guy and doctor calls at

95

00:04:53,970 --> 00:04:51,490

10 last year and was a big hit there Oh

96

00:04:55,470 --> 00:04:53,980

a couple of weeks ago you may remember

97

00:04:57,330 --> 00:04:55,480

there was an easter egg on the show

98

00:04:59,880 --> 00:04:57,340

right at the end of the show may not

99

00:05:01,920 --> 00:04:59,890

chatting to dr. carl about dentists and

100

00:05:05,370 --> 00:05:01,930

happy gasp and things like that that was

101

00:05:07,440 --> 00:05:05,380

actually recorded or 20 years ago or

102

00:05:09,870 --> 00:05:07,450

something crazy like that that was one

103

00:05:12,810 --> 00:05:09,880

from the archives now before we get into

104

00:05:14,490 --> 00:05:12,820

the show speaking of a supporting the

105

00:05:17,790 --> 00:05:14,500

skeptic zone there's another way you can

106

00:05:20,730 --> 00:05:17,800

do it I've just put up on ebay a series

107

00:05:23,490 --> 00:05:20,740

of origami posters and some of you may

108

00:05:25,830 --> 00:05:23,500

know why I do lots of origami I've

109

00:05:28,950 --> 00:05:25,840

written books about it a DVD and make an

110

00:05:30,780 --> 00:05:28,960

origami jewelry well I am folded up some

111

00:05:34,830 --> 00:05:30,790

origami out of money and other things

112

00:05:37,860 --> 00:05:34,840

and did some well I'm I think rather

113

00:05:39,990 --> 00:05:37,870

nice sort of photography work made some

114

00:05:41,520 --> 00:05:40,000

posters and they're available on eBay

115

00:05:44,220 --> 00:05:41,530

and that money goes back into the

116

00:05:45,870 --> 00:05:44,230

skeptic zone check those posters out I

117

00:05:47,760 --> 00:05:45,880

always like to think that they would

118

00:05:50,070 --> 00:05:47,770

look good at a school in a school

119

00:05:53,690 --> 00:05:50,080

library or something like that it quite

120

00:05:57,030 --> 00:05:53,700

their cheerful posters there's a link on

121

00:06:01,200 --> 00:05:57,040

skeptics on website [www scripting zone](http://www.scriptingzone.com)

122

00:06:04,530 --> 00:06:01,210

TV fifty dollars Australian will get you

123

00:06:06,810 --> 00:06:04,540

those posters free postage in Australia

124

00:06:08,520 --> 00:06:06,820

and I think a little bit more postage if

125

00:06:11,190 --> 00:06:08,530

you're overseas just to cover that cost

126

00:06:14,220 --> 00:06:11,200

check them out and don't forget you can

127

00:06:17,460 --> 00:06:14,230

order the vaccination chronicles DVD as

128

00:06:18,960 --> 00:06:17,470

well or a graft by me only twelve

129

00:06:23,910 --> 00:06:18,970

dollars postage anywhere in the world

130

00:06:26,520 --> 00:06:23,920

and that's for you to enjoy then copy

131

00:06:28,830 --> 00:06:26,530

and copy and give to your friends and

132

00:06:32,240 --> 00:06:28,840

say friends copy this and pass it around

133

00:06:35,700 --> 00:06:32,250

the artwork for the cover and the

134

00:06:38,700 --> 00:06:35,710

artwork for the DVD itself are embedded

135

00:06:39,690 --> 00:06:38,710

in the DVD so yeah if you want to do

136

00:06:42,780 --> 00:06:39,700

that and spread the word about

137

00:06:45,150 --> 00:06:42,790

vaccination how important it is ever

138

00:06:47,160 --> 00:06:45,160

knows at the moment in California

139

00:06:49,650 --> 00:06:47,170

especially in other parts of the US with

140

00:06:50,880 --> 00:06:49,660

the measles outbreak it's pretty

141

00:06:52,590 --> 00:06:50,890

important and we're going to be hearing

142

00:06:54,720 --> 00:06:52,600

more about that in the coming weeks I'm

143

00:06:57,570 --> 00:06:54,730

sure but now it's time for me to run

144

00:07:00,660 --> 00:06:57,580

downstairs keep going and run out the

145

00:07:04,230 --> 00:07:00,670

door run to my car jump in my car try

146

00:07:07,070 --> 00:07:04,240

shop and look hunt search for something

147

00:07:11,190 --> 00:07:07,080

i had in california which i just adore

148

00:07:12,960 --> 00:07:11,200

jalapeno and cheese bagels wish me luck

149

00:07:15,230 --> 00:07:12,970

in sydney folks if I was in California

150

00:07:19,610 --> 00:07:15,240

that I know I'd be heading for those

151  
00:07:22,680 --> 00:07:19,620  
well I venture out and search for that

152  
00:07:38,399 --> 00:07:22,690  
lovely breakfast I hope you enjoy the

153  
00:07:46,990 --> 00:07:41,770  
now it's time for dr. Rachel reports

154  
00:07:48,999 --> 00:07:47,000  
with dr. Rachel Dunlop I'm here with dr.

155  
00:07:52,089 --> 00:07:49,009  
Rachel Dunlop who is a cell biologist

156  
00:07:55,360 --> 00:07:52,099  
which means he specializes in the sex in

157  
00:07:58,420 --> 00:07:55,370  
prisons what my cell biology are an hour

158  
00:08:00,580 --> 00:07:58,430  
but look at all your moving on you've

159  
00:08:01,899 --> 00:08:00,590  
got the job um Benny ruthenium you're

160  
00:08:04,149 --> 00:08:01,909  
moving to melbourne on what's going on

161  
00:08:05,409 --> 00:08:04,159  
but people want to know inquiring minds

162  
00:08:08,469 --> 00:08:05,419  
want to know what's happened to dr.

163  
00:08:10,629 --> 00:08:08,479

Rachel well I can't really say may not I

164

00:08:13,869 --> 00:08:10,639

love that a bit of intrigue I can say

165

00:08:16,089 --> 00:08:13,879

that um my funding for my research and

166

00:08:19,869 --> 00:08:16,099

Sydney ran out look I heard people going

167

00:08:21,999 --> 00:08:19,879

boo when that happened yes yeah so I am

168

00:08:23,709 --> 00:08:22,009

I am going to live in Melbourne for a

169

00:08:26,350 --> 00:08:23,719

little while and then I'm got some plans

170

00:08:28,719 --> 00:08:26,360

to go elsewhere but I can't really

171

00:08:30,399 --> 00:08:28,729

search Fitzroy maybe northcote could go

172

00:08:32,290 --> 00:08:30,409

as far as there I'm gonna go to North

173

00:08:34,959 --> 00:08:32,300

Karen ish alee I might actually go to

174

00:08:38,019 --> 00:08:34,969

some poetry slams wear a black bear a I

175

00:08:40,899 --> 00:08:38,029

might go to Northland to Preston maybe

176

00:08:43,899 --> 00:08:40,909

you know I don't know yet and then I

177

00:08:49,449 --> 00:08:43,909

might even go over seas and oceans and

178

00:08:52,060 --> 00:08:49,459

stuff to the bowlin ah yes yes you are

179

00:08:53,740 --> 00:08:52,070

gonna get around totally a jet said all

180

00:08:56,050 --> 00:08:53,750

right are you gonna pretend to be a

181

00:08:57,550 --> 00:08:56,060

penguin and get fed for free this is

182

00:09:00,910 --> 00:08:57,560

assembling scam you're running isn't it

183

00:09:03,040 --> 00:09:00,920

I can't say that on the radio she knows

184

00:09:06,040 --> 00:09:03,050

you know she's not running internets I

185

00:09:07,180 --> 00:09:06,050

can't say that either but because people

186

00:09:08,980 --> 00:09:07,190

wondering where you've got to there and

187

00:09:10,750 --> 00:09:08,990

are you you must be pretty on a personal

188

00:09:12,220 --> 00:09:10,760

level obviously you'd be disgusted with

189

00:09:13,960 --> 00:09:12,230

the with the face of science in

190

00:09:16,540 --> 00:09:13,970

Australia at the moment and the way it's

191

00:09:18,130 --> 00:09:16,550

being treated but is it generally you

192

00:09:19,509 --> 00:09:18,140

know a bit of an issue for a lot of

193

00:09:21,189 --> 00:09:19,519

scientists in Australia with me yeah

194

00:09:24,060 --> 00:09:21,199

absolutely and it's got a lot worse in

195

00:09:26,040 --> 00:09:24,070

the last 12 months and it's

196

00:09:27,750 --> 00:09:26,050

people are finally starting to get

197

00:09:30,360 --> 00:09:27,760

cranky about it and make noise about it

198

00:09:32,370 --> 00:09:30,370

so it's just a funding attitude or is

199

00:09:34,590 --> 00:09:32,380

there a funding issue is there an

200

00:09:36,270 --> 00:09:34,600

attitude that's going on no I think it's

201  
00:09:39,060 --> 00:09:36,280  
a combination of both but primarily the

202  
00:09:42,830 --> 00:09:39,070  
biggest problem is funding and that the

203  
00:09:45,120 --> 00:09:42,840  
CSIRO which is our sort of hallmark

204  
00:09:46,740 --> 00:09:45,130  
Australian science agency who invented

205  
00:09:49,770 --> 00:09:46,750  
things like I you know I don't know like

206  
00:09:52,110 --> 00:09:49,780  
Wi-Fi and like plastic money and stuff

207  
00:09:54,420 --> 00:09:52,120  
so they're not actually sitting around

208  
00:09:56,610 --> 00:09:54,430  
doing nothing they lost nine hundred

209  
00:09:58,140 --> 00:09:56,620  
staff over the last 18 months because of

210  
00:09:59,850 --> 00:09:58,150  
funding cuts and what is this a

211  
00:10:02,190 --> 00:09:59,860  
percentage that sounds like it's not a

212  
00:10:04,620 --> 00:10:02,200  
small percentage no I don't know what

213  
00:10:06,420 --> 00:10:04,630

percentage it was but it was it was a

214

00:10:10,080 --> 00:10:06,430

massive amount of their research staff

215

00:10:11,940 --> 00:10:10,090

were gone including a guy who is is

216

00:10:14,550 --> 00:10:11,950

people think he's going to get nominated

217

00:10:16,890 --> 00:10:14,560

for a Nobel Prize fairly soon he got

218

00:10:19,830 --> 00:10:16,900

knocked off because um not knocked off

219

00:10:23,490 --> 00:10:19,840

as in like killed but it was it was made

220

00:10:25,530 --> 00:10:23,500

redundant but he still comes to work

221

00:10:27,300 --> 00:10:25,540

anyway he still comes to work even

222

00:10:28,740 --> 00:10:27,310

though he's not getting paid has he got

223

00:10:31,380 --> 00:10:28,750

stuff in the work fridge that he doesn't

224

00:10:34,950 --> 00:10:31,390

have to go off or something no I think

225

00:10:37,410 --> 00:10:34,960

he's just like this really generous guy

226

00:10:39,750 --> 00:10:37,420

and he's also he came to Australia on

227

00:10:42,300 --> 00:10:39,760

the 70s on a boat from Vietnam I think

228

00:10:44,340 --> 00:10:42,310

after the Vietnam War so he was I guess

229

00:10:46,170 --> 00:10:44,350

he was a boat person one of those

230

00:10:47,940 --> 00:10:46,180

terrorists that you know we hear about

231

00:10:49,950 --> 00:10:47,950

from the government I mean he has

232

00:10:51,330 --> 00:10:49,960

contributed a huge amount to research in

233

00:10:53,600 --> 00:10:51,340

this country but now he doesn't have a

234

00:10:57,510 --> 00:10:53,610

job either so there's another guy who

235

00:10:59,720 --> 00:10:57,520

who has contributed the equivalent of

236

00:11:02,520 --> 00:10:59,730

six billion dollars to the economy

237

00:11:05,490 --> 00:11:02,530

because he worked on solar cells and

238

00:11:09,300 --> 00:11:05,500

solar power and he's lost his job as

239

00:11:10,590 --> 00:11:09,310

well so you know is there any section

240

00:11:12,240 --> 00:11:10,600

that is going ahead at the moment is

241

00:11:14,040 --> 00:11:12,250

there any area that actually has got the

242

00:11:19,560 --> 00:11:14,050

money that other people haven't got yes

243

00:11:22,110 --> 00:11:19,570

the mining industry yes so good time to

244

00:11:23,700 --> 00:11:22,120

be a geologist now now now who's the

245

00:11:25,260 --> 00:11:23,710

silly one wasn't you should have been

246

00:11:27,450 --> 00:11:25,270

spending a bit more time on your igneous

247

00:11:29,910 --> 00:11:27,460

rocks well I'm possibly a mining

248

00:11:30,750 --> 00:11:29,920

engineer maybe I mean but the money room

249

00:11:34,110 --> 00:11:30,760

it has

250

00:11:36,090 --> 00:11:34,120

and it was slowing down but this

251  
00:11:39,030 --> 00:11:36,100  
government seems to be intent on putting

252  
00:11:44,160 --> 00:11:39,040  
money into fossil fuels and not really

253  
00:11:47,550 --> 00:11:44,170  
investing in renewables but also in the

254  
00:11:49,110 --> 00:11:47,560  
technology and the stem industries so

255  
00:11:50,400 --> 00:11:49,120  
science technology engineering maths in

256  
00:11:52,110 --> 00:11:50,410  
Australia which we were good we're going

257  
00:11:54,210 --> 00:11:52,120  
to need soon because we're going to run

258  
00:11:55,470 --> 00:11:54,220  
out of stuff in the ground you know you

259  
00:11:57,570 --> 00:11:55,480  
could just keep digging stuff out of the

260  
00:11:59,850 --> 00:11:57,580  
ground forever look about 200 years with

261  
00:12:02,190 --> 00:11:59,860  
it but I'm with ya and no way that's

262  
00:12:03,660 --> 00:12:02,200  
just call back yeah but the the other

263  
00:12:05,400 --> 00:12:03,670

issue is who's going to buy it you know

264

00:12:07,320 --> 00:12:05,410

China's not buying it as much as they

265

00:12:09,210 --> 00:12:07,330

used to anymore so that's one of the

266

00:12:11,040 --> 00:12:09,220

biggest problems is other countries who

267

00:12:12,990 --> 00:12:11,050

we used to rely on to buy it I'm Basu

268

00:12:16,310 --> 00:12:13,000

velu tuvalu is just not pulling its

269

00:12:18,870 --> 00:12:16,320

weight like like they've got the dot TV

270

00:12:20,130 --> 00:12:18,880

web web thing but they aren't buying

271

00:12:22,770 --> 00:12:20,140

much of our stuff they're like that

272

00:12:25,260 --> 00:12:22,780

they're not buying much coal they're not

273

00:12:26,730 --> 00:12:25,270

buying any uranium I mean what no come

274

00:12:29,430 --> 00:12:26,740

on because I think they're sinking

275

00:12:30,480 --> 00:12:29,440

actually Lena obviously they don't want

276

00:12:32,610 --> 00:12:30,490

to buy anything cuz it's gonna make the

277

00:12:34,890 --> 00:12:32,620

island heavier and you don't want that

278

00:12:38,130 --> 00:12:34,900

yeah because you know like the planets

279

00:12:39,570 --> 00:12:38,140

warming up and stuff um so no I mean

280

00:12:42,180 --> 00:12:39,580

there was an article in The Australian

281

00:12:43,650 --> 00:12:42,190

media just last week about four nobel

282

00:12:46,350 --> 00:12:43,660

prize winners from Australia who came

283

00:12:48,480 --> 00:12:46,360

out and had a real go at the government

284

00:12:50,340 --> 00:12:48,490

saying look you know this is not just an

285

00:12:52,530 --> 00:12:50,350

issue of one industry of people it's an

286

00:12:54,000 --> 00:12:52,540

issue of the country we've got to invest

287

00:12:55,320 --> 00:12:54,010

in something that's not just digging

288

00:12:57,210 --> 00:12:55,330

stuff out of the ground because it's not

289

00:12:59,460 --> 00:12:57,220

sustainable in terms of economical

290

00:13:01,050 --> 00:12:59,470

things so there was three Nobel Prize

291

00:13:02,070 --> 00:13:01,060

winners and three aria award winners

292

00:13:03,840 --> 00:13:02,080

that the guy with the big hair for

293

00:13:06,540 --> 00:13:03,850

Wolfmother came out and he was harsh

294

00:13:07,980 --> 00:13:06,550

what she quickly for this CSIRO things

295

00:13:09,120 --> 00:13:07,990

got to stop he said but people couldn't

296

00:13:11,340 --> 00:13:09,130

understand it cuz he was talking to it

297

00:13:13,500 --> 00:13:11,350

here well what does Simon de have to say

298

00:13:14,880 --> 00:13:13,510

about it did you ask him today you had a

299

00:13:16,380 --> 00:13:14,890

hangover and he think think think we

300

00:13:18,630 --> 00:13:16,390

should really throw that money behind a

301  
00:13:20,010 --> 00:13:18,640  
hangover based recovery okay we'll see

302  
00:13:22,260 --> 00:13:20,020  
that's something that we could pursue

303  
00:13:26,580 --> 00:13:22,270  
and you know I'm happy to do that but um

304  
00:13:28,770 --> 00:13:26,590  
yeah so I mean it in fact up until this

305  
00:13:31,020 --> 00:13:28,780  
point anyway most of my money had come

306  
00:13:32,850 --> 00:13:31,030  
from America in any case you

307  
00:13:34,650 --> 00:13:32,860  
I've never got any money from the

308  
00:13:36,810 --> 00:13:34,660  
australian government in terms of my

309  
00:13:38,220 --> 00:13:36,820  
research and my clinical trials are

310  
00:13:40,830 --> 00:13:38,230  
being run in America because we can't

311  
00:13:42,330 --> 00:13:40,840  
afford to run them here because if you

312  
00:13:43,740 --> 00:13:42,340  
weren't exactly what rachel has been

313  
00:13:45,810 --> 00:13:43,750

doing please look up talked about to

314

00:13:47,100 --> 00:13:45,820

Dunlop and her work and you there's some

315

00:13:48,630 --> 00:13:47,110

nice summaries of it that aren't on

316

00:13:50,550 --> 00:13:48,640

PubMed that people can understand oh

317

00:13:52,080 --> 00:13:50,560

yeah there's I mean I gab about a little

318

00:13:54,330 --> 00:13:52,090

over the place so yeah you'll find it

319

00:13:55,500 --> 00:13:54,340

everywhere ya know we had to stop a

320

00:13:56,640 --> 00:13:55,510

talking she was talking to some just

321

00:13:57,960 --> 00:13:56,650

people in the street there was like some

322

00:14:00,000 --> 00:13:57,970

homeless people she was just trying to

323

00:14:01,620 --> 00:14:00,010

do you know about that i'll shut up they

324

00:14:02,820 --> 00:14:01,630

even they knew they wouldn't have it

325

00:14:04,620 --> 00:14:02,830

they said look just go upstairs with the

326

00:14:05,940 --> 00:14:04,630

skeptics okay but look you're looking

327

00:14:08,340 --> 00:14:05,950

fine you're looking great and whatever

328

00:14:10,200 --> 00:14:08,350

you got ahead of you I'm sure it's big

329

00:14:12,150 --> 00:14:10,210

and bright well may not I don't have a

330

00:14:13,740 --> 00:14:12,160

job anymore so maybe I'll have time to

331

00:14:16,020 --> 00:14:13,750

do some more reports for the show which

332

00:14:17,400 --> 00:14:16,030

would be good wouldn't it Wow I think

333

00:14:18,480 --> 00:14:17,410

you I think you would you should get in

334

00:14:20,040 --> 00:14:18,490

there and get but you have been on the

335

00:14:22,020 --> 00:14:20,050

project a lot and you've been you've

336

00:14:24,240 --> 00:14:22,030

been getting in there hard now I have

337

00:14:26,940 --> 00:14:24,250

been asking this of everyone a bit

338

00:14:30,210 --> 00:14:26,950

tonight and that is if you could ban

339

00:14:33,720 --> 00:14:30,220

banished from the planet one only one

340

00:14:38,190 --> 00:14:33,730

non evidence-based modality which one

341

00:14:40,830 --> 00:14:38,200

would you pick only one only one Queen

342

00:14:42,240 --> 00:14:40,840

rachel is going to speak and then there

343

00:14:44,160 --> 00:14:42,250

will be no more of this and we must

344

00:14:45,810 --> 00:14:44,170

speak of it no more after you ban it

345

00:14:47,940 --> 00:14:45,820

what would it be controversial though

346

00:14:50,010 --> 00:14:47,950

what I say and it might make us some

347

00:14:52,800 --> 00:14:50,020

people a little bit cranky okay so in

348

00:14:53,970 --> 00:14:52,810

one non evidence-based medical modality

349

00:14:55,740 --> 00:14:53,980

okay so I'm going to have to paraphrase

350

00:14:58,430 --> 00:14:55,750

it by saying it's only the non

351

00:15:01,800 --> 00:14:58,440

evidence-based section of this modality

352

00:15:04,500 --> 00:15:01,810

which is unfortunately a lot of it and

353

00:15:05,850 --> 00:15:04,510

I'd have to say chiropractic and I'd

354

00:15:08,430 --> 00:15:05,860

have to say that because it's considered

355

00:15:10,650 --> 00:15:08,440

mainstream by many people it's not

356

00:15:11,970 --> 00:15:10,660

considered alternative at all so people

357

00:15:15,690 --> 00:15:11,980

don't even know that it's not

358

00:15:16,650 --> 00:15:15,700

evidence-based and it's some of it some

359

00:15:19,320 --> 00:15:16,660

of the things they do are quite

360

00:15:21,300 --> 00:15:19,330

pernicious because they come across they

361

00:15:24,650 --> 00:15:21,310

call themselves doctor so where was the

362

00:15:26,730 --> 00:15:24,660

line is it is a rough line where the

363

00:15:29,670 --> 00:15:26,740

evidence-based stopped and the non and

364

00:15:31,380 --> 00:15:29,680

evidence-based started is there one fact

365

00:15:33,600 --> 00:15:31,390

that they grab onto that from that point

366

00:15:36,480 --> 00:15:33,610

on is non evidence-based yeah and that

367

00:15:38,160 --> 00:15:36,490

is that there's subluxation some magical

368

00:15:40,800 --> 00:15:38,170

subluxations in people's spines they

369

00:15:42,210 --> 00:15:40,810

affect their entire health so if you

370

00:15:44,660 --> 00:15:42,220

crack someone's back it was

371

00:15:46,890 --> 00:15:44,670

prevent them from getting it will

372

00:15:49,650 --> 00:15:46,900

correct their hearing impairment or

373

00:15:52,260 --> 00:15:49,660

it'll fix their sinuses or something so

374

00:15:55,500 --> 00:15:52,270

that is really changing I mean I once

375

00:15:56,670 --> 00:15:55,510

had like a bit of a what a contortion

376

00:15:58,650 --> 00:15:56,680

what I they call when they do that when

377

00:16:00,660 --> 00:15:58,660

they do the movement it's an entire okay

378

00:16:01,920 --> 00:16:00,670

well I had my back cracked and before

379

00:16:04,110 --> 00:16:01,930

that I never liked the music of the

380

00:16:05,850 --> 00:16:04,120

sharp but after that I couldn't get

381

00:16:08,900 --> 00:16:05,860

enough of train of thought I could not

382

00:16:12,510 --> 00:16:08,910

it was just amazing my train of thought

383

00:16:15,900 --> 00:16:12,520

actually know that there was a Meridian

384

00:16:17,310 --> 00:16:15,910

Line or whatever for the shop there is

385

00:16:19,050 --> 00:16:17,320

yeah and and you know and it's

386

00:16:20,190 --> 00:16:19,060

interesting cuz the sharp but the living

387

00:16:21,840 --> 00:16:20,200

end even though they have a similar line

388

00:16:23,400 --> 00:16:21,850

up didn't affect me so it was very

389

00:16:25,890 --> 00:16:23,410

specific it was a bit like it was a

390

00:16:27,210 --> 00:16:25,900

targeted targeted receptor well that you

391

00:16:28,740 --> 00:16:27,220

see I mean maybe that's something we

392

00:16:30,090 --> 00:16:28,750

should research more because that could

393

00:16:32,640 --> 00:16:30,100

be something we could follow up you know

394

00:16:34,380 --> 00:16:32,650

although other sharp still together yeah

395

00:16:35,970 --> 00:16:34,390

look and look no matter and look alive

396

00:16:38,220 --> 00:16:35,980

love Australian bands look maybe this

397

00:16:40,170 --> 00:16:38,230

sharpie look look and look a lot of

398

00:16:41,670 --> 00:16:40,180

Australian bad liked ISM Chisholm of

399

00:16:43,980 --> 00:16:41,680

Melbourne spent years investigating

400

00:16:46,020 --> 00:16:43,990

Saturday night palsy they never found a

401  
00:16:47,520 --> 00:16:46,030  
cure that's true hmm is it true you're

402  
00:16:49,590 --> 00:16:47,530  
interviewing them soon may not I've

403  
00:16:52,050 --> 00:16:49,600  
already spoken to them and yes it was

404  
00:16:53,670 --> 00:16:52,060  
that I've looked up to quote Seinfeld

405  
00:16:55,920 --> 00:16:53,680  
I've interviewed ISM end of a

406  
00:16:58,440 --> 00:16:55,930  
spectacular did you do it over the phone

407  
00:17:01,500 --> 00:16:58,450  
up over the sky so it's a good quality

408  
00:17:03,420 --> 00:17:01,510  
videos of their face and no I didn't in

409  
00:17:04,890 --> 00:17:03,430  
fact I actually challenged Damien Carol

410  
00:17:05,880 --> 00:17:04,900  
I said look the amount of people have

411  
00:17:07,110 --> 00:17:05,890  
told me that they were in the Rolling

412  
00:17:09,630 --> 00:17:07,120  
Stones head I know you actually in

413  
00:17:11,940 --> 00:17:09,640

Chisholm yes I saying but he did

414

00:17:13,680 --> 00:17:11,950

actually he'd know he knew enough to

415

00:17:16,110 --> 00:17:13,690

know he was the guy from Chisholm and by

416

00:17:17,520 --> 00:17:16,120

the way skeptics by Damien Carol's disco

417

00:17:19,920 --> 00:17:17,530

machine album it's got Shawn Micallef

418

00:17:22,050 --> 00:17:19,930

and kate miller high key and tim rogers

419

00:17:23,880 --> 00:17:22,060

on it and it's great oh wow that sounds

420

00:17:25,470 --> 00:17:23,890

excellent no I don't look that up I mean

421

00:17:27,030 --> 00:17:25,480

who else would write a song that says I

422

00:17:28,320 --> 00:17:27,040

hope you get laid for Christmas that is

423

00:17:31,380 --> 00:17:28,330

a great song and I'm gonna be playing

424

00:17:33,210 --> 00:17:31,390

that a Christmas cost you are dr. Reggie

425

00:17:35,010 --> 00:17:33,220

have a have a good time in Melbourne so

426

00:17:36,300 --> 00:17:35,020

obviously you are wearing a lipstick

427

00:17:37,920 --> 00:17:36,310

that's going to be three shades redder

428

00:17:40,530 --> 00:17:37,930

you can have to do twice as much

429

00:17:42,210 --> 00:17:40,540

foundation makeup and get a lot more

430

00:17:44,220 --> 00:17:42,220

black into your wardrobe because that is

431

00:17:46,740 --> 00:17:44,230

melbourne in winter I do have a lot of

432

00:17:48,150 --> 00:17:46,750

black already but I had to send a lot of

433

00:17:49,980 --> 00:17:48,160

my clothes away to storage because i'm

434

00:17:51,360 --> 00:17:49,990

going to somewhere after this where it's

435

00:17:54,330 --> 00:17:51,370

different weather

436

00:17:56,370 --> 00:17:54,340

I feel the pollen Phillip Island yeah

437

00:17:59,910 --> 00:17:56,380

just south of melbourne it's quite you

438

00:18:02,070 --> 00:17:59,920

know different there now and I believe

439

00:18:03,299 --> 00:18:02,080

that due to a terrible shipping mistake

440

00:18:05,460 --> 00:18:03,309

must add Scott Anderson Vincent de Paul

441

00:18:07,799 --> 00:18:05,470

and everyone's having a great time there

442

00:18:10,980 --> 00:18:07,809

are people there yeah a shipping error

443

00:18:12,510 --> 00:18:10,990

shipping you get this book Reggie almost

444

00:18:14,100 --> 00:18:12,520

as much fun thank you for coming along

445

00:18:16,290 --> 00:18:14,110

tight and I hope we can see you soon and

446

00:18:25,830 --> 00:18:16,300

come back on the show soon I will may

447

00:18:27,810 --> 00:18:25,840

not i'll try on maynard calm da are you

448

00:18:30,240 --> 00:18:27,820

banga banga can you give us a brief

449

00:18:31,380 --> 00:18:30,250

summary of your time in canada very

450

00:18:32,850 --> 00:18:31,390

quickly there can you explain the

451  
00:18:34,440 --> 00:18:32,860  
country to us what happens to some

452  
00:18:39,510 --> 00:18:34,450  
advice for people visiting canada oh

453  
00:18:42,270 --> 00:18:39,520  
canada our home and what are you doing

454  
00:18:44,100 --> 00:18:42,280  
Oh with what no the words it sounds

455  
00:18:50,010 --> 00:18:44,110  
you're seeking it who's thing is I was

456  
00:18:52,440 --> 00:18:50,020  
saying just I like Oh Oh Canada can you

457  
00:18:57,990 --> 00:18:52,450  
do it sure no no can you do the like

458  
00:19:00,450 --> 00:18:58,000  
melody like Oh Canada Oh Canada yeah

459  
00:19:02,340 --> 00:19:00,460  
that's no no Canada is the most polite

460  
00:19:04,020 --> 00:19:02,350  
country in the world you turn up there

461  
00:19:06,210 --> 00:19:04,030  
and the first thing customers say is

462  
00:19:10,200 --> 00:19:06,220  
sorry sorry I need to see your passport

463  
00:19:12,299 --> 00:19:10,210

the snow hit at a rate of five feet in

464

00:19:14,160 --> 00:19:12,309

one night babe you wake up in the

465

00:19:16,290 --> 00:19:14,170

morning you got to open the door and the

466

00:19:17,940 --> 00:19:16,300

door won't open so you eat a lot of

467

00:19:19,830 --> 00:19:17,950

bacon too emotionally cope with it

468

00:19:21,660 --> 00:19:19,840

everybody has polite conversations

469

00:19:23,250 --> 00:19:21,670

because you're all locked up and nobody

470

00:19:26,280 --> 00:19:23,260

wants to be rude because you get put

471

00:19:28,950 --> 00:19:26,290

outside straighten up Australia wake up

472

00:19:33,150 --> 00:19:28,960

to yourself prince philip has not only

473

00:19:35,820 --> 00:19:33,160

been the lover of australia's despot for

474

00:19:38,880 --> 00:19:35,830

over three hundred and twelve years well

475

00:19:41,730 --> 00:19:38,890

done he is greek and what could be more

476

00:19:45,000 --> 00:19:41,740

Australian than an old Greek guy

477

00:19:49,020 --> 00:19:45,010

shuffling around after some woman going

478

00:19:51,660 --> 00:19:49,030

were were eating food living the good

479

00:19:53,190 --> 00:19:51,670

life isn't that the Australian thing and

480

00:19:55,470 --> 00:19:53,200

of course another thing about Prince

481

00:19:58,740 --> 00:19:55,480

Phillip is he doesn't receive any money

482

00:20:02,010 --> 00:19:58,750

at all he's been scraping by four years

483

00:20:02,490 --> 00:20:02,020

now going around Balmoral busking a

484

00:20:05,310 --> 00:20:02,500

little

485

00:20:08,730 --> 00:20:05,320

living off the coin she's given come on

486

00:20:20,940 --> 00:20:08,740

a burger oh my not condone are you Tanya

487

00:20:32,670 --> 00:20:20,950

Bunga it's the raw skeptic report with

488

00:20:34,800 --> 00:20:32,680

Heidi Robertson hi everyone so I have a

489

00:20:37,890 --> 00:20:34,810

bit of an update on the raw milk story I

490

00:20:39,750 --> 00:20:37,900

did a few weeks ago after the death of a

491

00:20:41,910 --> 00:20:39,760

toddler and illnesses of other children

492

00:20:44,490 --> 00:20:41,920

link to the ingestion of raw milk from a

493

00:20:46,170 --> 00:20:44,500

dairy farm in Victoria the Victorian

494

00:20:49,200 --> 00:20:46,180

Government has made it mandatory that

495

00:20:52,400 --> 00:20:49,210

all raw milk sold must now contain a

496

00:20:54,990 --> 00:20:52,410

bittering agent to make it unpalatable

497

00:20:57,060 --> 00:20:55,000

after all the bittering agent should not

498

00:20:59,970 --> 00:20:57,070

matter in the least if the milk is being

499

00:21:04,290 --> 00:20:59,980

used to bathe in as was its advertised

500

00:21:07,020 --> 00:21:04,300

purpose a Rebecca freer from Melbourne

501  
00:21:10,170 --> 00:21:07,030  
runs to facebook pages one the

502  
00:21:15,090 --> 00:21:10,180  
Australian raw milk movement and to the

503  
00:21:18,990 --> 00:21:15,100  
raw store on January the 27th 2015 the

504  
00:21:20,850 --> 00:21:19,000  
raw store posted the following come and

505  
00:21:23,370 --> 00:21:20,860  
defend your consumer rights at our raw

506  
00:21:25,110 --> 00:21:23,380  
milk drinking even if you don't care

507  
00:21:27,720 --> 00:21:25,120  
about raw milk it is in everyone's

508  
00:21:30,510 --> 00:21:27,730  
interests to have control over what food

509  
00:21:33,180 --> 00:21:30,520  
we eat let's start wielding our power as

510  
00:21:36,840 --> 00:21:33,190  
consumers and say no to money making

511  
00:21:38,400 --> 00:21:36,850  
over health making followed by a poster

512  
00:21:43,170 --> 00:21:38,410  
with the details of the time and place

513  
00:21:45,120 --> 00:21:43,180

to be and a reminder to BYO cup the

514

00:21:48,290 --> 00:21:45,130

drinkin was held outside the Office of

515

00:21:50,880 --> 00:21:48,300

Consumer Affairs Minister Jane Garrett

516

00:21:52,620 --> 00:21:50,890

two days after that post the Guardian

517

00:21:55,710 --> 00:21:52,630

picked up on the story with the headline

518

00:21:58,710 --> 00:21:55,720

raw milk drinking in Melbourne denounced

519

00:22:02,040 --> 00:21:58,720

by health experts from that article

520

00:22:04,890 --> 00:22:02,050

quote a leading infectious disease

521

00:22:07,950 --> 00:22:04,900

physician and microbiologist professor

522

00:22:10,200 --> 00:22:07,960

peter collignon said he was concerned by

523

00:22:12,720 --> 00:22:10,210

the drinking and that uninformed people

524

00:22:15,900 --> 00:22:12,730

may try the product thinking raw also

525

00:22:16,290 --> 00:22:15,910

meant healthy I would advise no one to

526  
00:22:19,440 --> 00:22:16,300  
parties

527  
00:22:22,050 --> 00:22:19,450  
page he said if they try to say to

528  
00:22:24,300 --> 00:22:22,060  
people raw milk is more pure they are

529  
00:22:27,810 --> 00:22:24,310  
wrong and are trying to get people to do

530  
00:22:29,550 --> 00:22:27,820  
something dangerous he said the raw milk

531  
00:22:32,220 --> 00:22:29,560  
movement page then posted the following

532  
00:22:34,110 --> 00:22:32,230  
a couple of days later the phone is

533  
00:22:36,740 --> 00:22:34,120  
running hot today with the age and the

534  
00:22:38,970 --> 00:22:36,750  
Guardian both asking about our drinking

535  
00:22:41,370 --> 00:22:38,980  
apparently according to the Guardian

536  
00:22:42,750 --> 00:22:41,380  
journalist our drinking is disrespectful

537  
00:22:45,330 --> 00:22:42,760  
to the families of the children that

538  
00:22:47,880 --> 00:22:45,340

allegedly became unwell because of the

539

00:22:50,220 --> 00:22:47,890

milk Wow isn't it pretty disrespectful

540

00:22:52,160 --> 00:22:50,230

to accuse a farmer of producing and

541

00:22:54,660 --> 00:22:52,170

selling killer milk with zero evidence

542

00:22:56,730 --> 00:22:54,670

when did it become disrespectful to

543

00:22:58,890 --> 00:22:56,740

assert your rights and have an opinion I

544

00:23:01,770 --> 00:22:58,900

think it's fair to say we are in the

545

00:23:04,200 --> 00:23:01,780

midst of violent resistance at least we

546

00:23:08,790 --> 00:23:04,210

have moved on from denial get ready

547

00:23:10,830 --> 00:23:08,800

people the fight is on the drink in went

548

00:23:12,900 --> 00:23:10,840

ahead with the attendees protesting

549

00:23:14,730 --> 00:23:12,910

against the new law and footage of

550

00:23:17,040 --> 00:23:14,740

parents feeding their children raw milk

551  
00:23:20,250 --> 00:23:17,050  
and wearing t-shirts saying hands off

552  
00:23:22,830 --> 00:23:20,260  
our milk Rebecca free led the protest

553  
00:23:25,350 --> 00:23:22,840  
and when interviewed there by the ABC

554  
00:23:28,970 --> 00:23:25,360  
said that unpasteurized milk should be

555  
00:23:31,200 --> 00:23:28,980  
regulated and not banned she said quote

556  
00:23:33,540 --> 00:23:31,210  
but there has to be certain things

557  
00:23:35,100 --> 00:23:33,550  
happening for it to be safe so if you

558  
00:23:37,080 --> 00:23:35,110  
look at other parts of the world they're

559  
00:23:39,390 --> 00:23:37,090  
very clear on stipulating that the cows

560  
00:23:42,000 --> 00:23:39,400  
need to be really healthy the cows are

561  
00:23:46,710 --> 00:23:42,010  
grass-fed these are not factory farm

562  
00:23:49,650 --> 00:23:46,720  
cows end quote when I headed on over to

563  
00:23:53,550 --> 00:23:49,660

the raw store's website the raw store

564

00:23:56,550 --> 00:23:53,560

net a you I was greeted by a photo of a

565

00:24:00,480 --> 00:23:56,560

homemade sign being held up by two hands

566

00:24:03,060 --> 00:24:00,490

but an unseen face the sign stated in

567

00:24:06,630 --> 00:24:03,070

large black lettering I drink raw milk

568

00:24:08,790 --> 00:24:06,640

arrest me interesting that the person

569

00:24:11,970 --> 00:24:08,800

holding that provocative sign wishes to

570

00:24:13,830 --> 00:24:11,980

remain anonymous so they are no longer

571

00:24:16,350 --> 00:24:13,840

pretending that the milk is being used

572

00:24:18,450 --> 00:24:16,360

for bathing in so how do they justify

573

00:24:20,700 --> 00:24:18,460

selling milk which is illegal to sell

574

00:24:23,630 --> 00:24:20,710

for human consumption here's their

575

00:24:26,070 --> 00:24:23,640

theory from the Australian raw milk page

576

00:24:28,070 --> 00:24:26,080

not all of us have the luxury of being

577

00:24:30,769 --> 00:24:28,080

able to support a house cow in

578

00:24:32,810 --> 00:24:30,779

backyards so those people wanting to

579

00:24:34,789 --> 00:24:32,820

obtain it in this manner often chose to

580

00:24:37,190 --> 00:24:34,799

purchase a share of an animal and pay

581

00:24:39,740 --> 00:24:37,200

the producer to look after the cow milk

582

00:24:41,360 --> 00:24:39,750

it and deliver the milk to them the milk

583

00:24:43,399 --> 00:24:41,370

they legally owned as part of the

584

00:24:46,009 --> 00:24:43,409

agreement with the producer this

585

00:24:48,710 --> 00:24:46,019

arrangement is called a herd chair or

586

00:24:50,720 --> 00:24:48,720

couch air the milk is not sold the

587

00:24:52,580 --> 00:24:50,730

consumer owns the animal and is merely

588

00:24:55,490 --> 00:24:52,590

receiving the milk they are entitled to

589

00:24:56,870 --> 00:24:55,500

as the owner of the animal the producer

590

00:24:59,690 --> 00:24:56,880

simply cares for the animal and

591

00:25:01,789 --> 00:24:59,700

distributes the milk to them this is

592

00:25:05,990 --> 00:25:01,799

legal under the current legislation as

593

00:25:08,210 --> 00:25:06,000

the milk is not being sold this is also

594

00:25:10,310 --> 00:25:08,220

the defense that a South Australian

595

00:25:12,460 --> 00:25:10,320

couple are currently using in court

596

00:25:16,549 --> 00:25:12,470

they're on trial for selling raw milk

597

00:25:18,620 --> 00:25:16,559

vehicle share scheme in april 2013 an

598

00:25:21,289 --> 00:25:18,630

investigator from South Australian

599

00:25:23,389 --> 00:25:21,299

Primary Industries and resources bought

600

00:25:26,139 --> 00:25:23,399

a share of their herd and had the milk

601  
00:25:28,430 --> 00:25:26,149  
tested the results were that there were

602  
00:25:32,600 --> 00:25:28,440  
microbiological levels well in excess of

603  
00:25:34,310 --> 00:25:32,610  
those allowed by Food Standards that

604  
00:25:36,740 --> 00:25:34,320  
couple brought one of their dairy cows

605  
00:25:38,899 --> 00:25:36,750  
to court with them they also had a

606  
00:25:41,389 --> 00:25:38,909  
shareholder turn up to court in a cow

607  
00:25:44,060 --> 00:25:41,399  
onesie declaring her support for the

608  
00:25:46,009 --> 00:25:44,070  
couple she said that she was allowed by

609  
00:25:48,769 --> 00:25:46,019  
law to drink alcohol and eat junk food

610  
00:25:51,769 --> 00:25:48,779  
so she should also be allowed to by law

611  
00:25:53,509 --> 00:25:51,779  
to drink raw milk here's another quote

612  
00:25:57,200 --> 00:25:53,519  
from that shareholder in a story by the

613  
00:25:59,450 --> 00:25:57,210

ABC I have gone to visit the farm but I

614

00:26:02,450 --> 00:25:59,460

have not gone specifically to visit my

615

00:26:04,639 --> 00:26:02,460

cow if there was a label on my cow I

616

00:26:08,149 --> 00:26:04,649

could certainly identify my cow I

617

00:26:10,460 --> 00:26:08,159

believe it's a Frisian the

618

00:26:12,409 --> 00:26:10,470

physiotherapist then gym owner admitted

619

00:26:14,299 --> 00:26:12,419

she received milk from cows other than

620

00:26:15,830 --> 00:26:14,309

her own because the milk from all cows

621

00:26:18,950 --> 00:26:15,840

on the property was pulled before

622

00:26:20,960 --> 00:26:18,960

distribution mr. Tyler from the farm

623

00:26:23,720 --> 00:26:20,970

said pooling the milk prevented health

624

00:26:25,940 --> 00:26:23,730

risks part of the reason for pulling all

625

00:26:28,039 --> 00:26:25,950

the milk into one VAT and refrigerating

626

00:26:31,250 --> 00:26:28,049

it quickly is to protect the health of

627

00:26:32,720 --> 00:26:31,260

the shareholders he said it would go

628

00:26:35,060 --> 00:26:32,730

against the best interest of the

629

00:26:37,960 --> 00:26:35,070

participants if we had to milk each cow

630

00:26:41,640 --> 00:26:37,970

individually and do it all separately

631

00:26:43,990 --> 00:26:41,650

the trial will resume in my

632

00:26:47,110 --> 00:26:44,000

so what were other supporters and

633

00:26:49,480 --> 00:26:47,120

shareholders saying on social media well

634

00:26:51,990 --> 00:26:49,490

there were comments such as the Sun

635

00:26:54,669 --> 00:26:52,000

causes melanoma let's ban the Sun and

636

00:26:57,460 --> 00:26:54,679

junk food is killing us why don't they

637

00:26:59,680 --> 00:26:57,470

ban that there are also others saying

638

00:27:01,810 --> 00:26:59,690

that raw milk very rarely causes deaths

639

00:27:04,260 --> 00:27:01,820

so everyone is having a knee-jerk

640

00:27:08,110 --> 00:27:04,270

reaction to the death of this toddler

641

00:27:10,360 --> 00:27:08,120

nice i noticed that no one that i could

642

00:27:12,220 --> 00:27:10,370

see was posting anything about a the

643

00:27:14,919 --> 00:27:12,230

morbidity rates associated with

644

00:27:17,350 --> 00:27:14,929

ingesting raw milk and be what the

645

00:27:21,310 --> 00:27:17,360

relative risks were of raw milk versus

646

00:27:24,220 --> 00:27:21,320

pasteurized milk consumption so I posted

647

00:27:28,779 --> 00:27:24,230

some CDC statistics on one of the raw

648

00:27:32,890 --> 00:27:28,789

milk movement threads quote from 1998

649

00:27:34,690 --> 00:27:32,900

through 2011 148 outbreaks due to

650

00:27:37,690 --> 00:27:34,700

consumption of raw milk or raw milk

651  
00:27:42,930 --> 00:27:37,700  
products were reported to the CDC these

652  
00:27:45,520 --> 00:27:42,940  
resulted in 2384 illnesses 284

653  
00:27:48,610 --> 00:27:45,530  
hospitalizations and two deaths and

654  
00:27:51,159 --> 00:27:48,620  
quote I also commented that

655  
00:27:53,860 --> 00:27:51,169  
hospitalizations result not just from

656  
00:27:56,080 --> 00:27:53,870  
vomiting and diarrhea guillain-barre

657  
00:27:59,320 --> 00:27:56,090  
syndrome can occur leading to paralysis

658  
00:28:02,549 --> 00:27:59,330  
and hemolytic uremic syndrome can result

659  
00:28:05,140 --> 00:28:02,559  
leading to kidney failure and Stroke my

660  
00:28:07,419 --> 00:28:05,150  
comments were promptly deleted and I've

661  
00:28:12,730 --> 00:28:07,429  
been banned from commenting further on

662  
00:28:15,490 --> 00:28:12,740  
the page tangent that's about the sixth

663  
00:28:20,060 --> 00:28:15,500

or seventh Facebook page I've been

664

00:28:25,500 --> 00:28:22,650

others include the Australian of

665

00:28:29,310 --> 00:28:25,510

vaccination skeptics Network food babe

666

00:28:32,040 --> 00:28:29,320

Pete Evans a pro-black self page and a

667

00:28:33,930 --> 00:28:32,050

particular Northern Rivers vets page he

668

00:28:36,870 --> 00:28:33,940

provides homeopathic alternatives to

669

00:28:38,940 --> 00:28:36,880

vaccinations in animals I can't say I've

670

00:28:41,730 --> 00:28:38,950

ever seen a pro science page ever delete

671

00:28:46,830 --> 00:28:41,740

someone who's had valid facts on their

672

00:28:50,460 --> 00:28:46,840

side anyway so what does the CDC say

673

00:28:54,380 --> 00:28:50,470

about relative risk quote the incidence

674

00:28:57,150 --> 00:28:54,390

of reported outbreaks from 1993 to 2006

675

00:29:00,660 --> 00:28:57,160

involving non pasteurized dairy products

676  
00:29:02,850 --> 00:29:00,670  
was around 150 times greater per unit of

677  
00:29:05,220 --> 00:29:02,860  
dairy product consumed than the

678  
00:29:08,820 --> 00:29:05,230  
incidents involving pasteurized products

679  
00:29:10,650 --> 00:29:08,830  
if as is probably likely less than 1% of

680  
00:29:13,800 --> 00:29:10,660  
dairy products are consumed non

681  
00:29:16,140 --> 00:29:13,810  
pasteurized then the relative risk per

682  
00:29:19,470 --> 00:29:16,150  
unit of non pasteurized dairy product

683  
00:29:22,620 --> 00:29:19,480  
consumed would be even higher and this

684  
00:29:24,720 --> 00:29:22,630  
quote the hospitalization rate for

685  
00:29:27,960 --> 00:29:24,730  
patients in outbreaks caused by raw milk

686  
00:29:30,240 --> 00:29:27,970  
was 13 times higher thirteen percent

687  
00:29:31,770 --> 00:29:30,250  
versus one percent then the rate for

688  
00:29:34,680 --> 00:29:31,780

people in outbreaks caused by

689

00:29:36,570 --> 00:29:34,690

pasteurized milk this difference is

690

00:29:38,870 --> 00:29:36,580

probably partly because the outbreaks

691

00:29:41,610 --> 00:29:38,880

caused by raw milk were all caused by

692

00:29:47,730 --> 00:29:41,620

bacterial infections that tend to be

693

00:29:49,920 --> 00:29:47,740

more severe for example a coli o157 h7 a

694

00:29:52,020 --> 00:29:49,930

bacterium that can cause kidney failure

695

00:29:54,930 --> 00:29:52,030

and death was a common cause of

696

00:29:57,690 --> 00:29:54,940

outbreaks due to raw milk for outbreaks

697

00:29:59,700 --> 00:29:57,700

caused by pasteurized milk relatively

698

00:30:04,100 --> 00:29:59,710

mild viral infections and foodborne

699

00:30:07,050 --> 00:30:04,110

toxins were more common causes end quote

700

00:30:08,940 --> 00:30:07,060

perhaps if you know all the risks of

701  
00:30:11,520 --> 00:30:08,950  
ingesting raw milk that is not straight

702  
00:30:14,820 --> 00:30:11,530  
from the cow and you still choose to do

703  
00:30:16,200 --> 00:30:14,830  
it you should be able to the issue is

704  
00:30:18,150 --> 00:30:16,210  
that this product is being fed to

705  
00:30:20,130 --> 00:30:18,160  
children all around the country who rely

706  
00:30:22,890 --> 00:30:20,140  
on their caregivers to protect them from

707  
00:30:25,290 --> 00:30:22,900  
harm we strap our kids into their car

708  
00:30:28,010 --> 00:30:25,300  
seats we don't shove cigarettes in their

709  
00:30:30,600 --> 00:30:28,020  
mouths or give them alcohol to drink

710  
00:30:32,760 --> 00:30:30,610  
perhaps we should also avoid giving them

711  
00:30:35,370 --> 00:30:32,770  
a product that has no proven benefit

712  
00:30:39,290 --> 00:30:35,380  
above pasteurized milk but which has a

713  
00:30:42,780 --> 00:30:39,300

much higher risk associated with it

714

00:30:45,090 --> 00:30:42,790

that's it from me take a look at our

715

00:30:47,910 --> 00:30:45,100

group's website we are the Northern

716

00:30:52,830 --> 00:30:47,920

Rivers vaccination supporters and can be

717

00:30:54,600 --> 00:30:52,840

found at nrvs dot info on facebook at

718

00:30:58,230 --> 00:30:54,610

northern rivers vaccination supporters

719

00:31:16,770 --> 00:30:58,240

or on twitter at our backs supporters

720

00:31:18,780 --> 00:31:16,780

that's vix thanks till next time hi I'm

721

00:31:21,090 --> 00:31:18,790

Finn and I'm Rebecca and where the

722

00:31:23,010 --> 00:31:21,100

skipper cons skipper Collins is an Irish

723

00:31:24,720 --> 00:31:23,020

podcast by the Dublin skeptics society

724

00:31:26,760 --> 00:31:24,730

it takes a conversational reverent look

725

00:31:29,600 --> 00:31:26,770

at science news and skeptical topics for

726

00:31:36,440 --> 00:31:29,610

an Irish perspective you can find is out

727

00:31:42,360 --> 00:31:38,880

the skeptic zone is brought to you by

728

00:31:45,810 --> 00:31:42,370

dr. Bob's trivia quiz visit dr. Bob's

729

00:31:48,510 --> 00:31:45,820

quiz wordpress.com and see if you can

730

00:31:50,520 --> 00:31:48,520

match wits with dr. Bob and now I'm

731

00:31:53,100 --> 00:31:50,530

absolutely delighted to be talking to

732

00:31:55,410 --> 00:31:53,110

the mysterious dr. Bob from dr. Bob's

733

00:31:57,180 --> 00:31:55,420

trivia quiz otherwise known as Steve

734

00:32:00,330 --> 00:31:57,190

Robert iced tea hello it should how are

735

00:32:01,950 --> 00:32:00,340

you I'm fine now this quiz this quiz dr.

736

00:32:06,060 --> 00:32:01,960

Bob's quiz what's the history about that

737

00:32:07,799 --> 00:32:06,070

Oh long long ago I'm from Melbourne I

738

00:32:10,919 --> 00:32:07,809

mean the Melbourne skeptics and every

739

00:32:13,470 --> 00:32:10,929

Christmas we put a light-hearted quiz on

740

00:32:15,960 --> 00:32:13,480

we had monthly meetings which they are

741

00:32:19,620 --> 00:32:15,970

still going in fact in a partying like

742

00:32:22,230 --> 00:32:19,630

on street and maybe Chris was up at this

743

00:32:25,200 --> 00:32:22,240

trivia quiz on they got so formed into

744

00:32:27,780 --> 00:32:25,210

account of its own and this is before

745

00:32:29,340 --> 00:32:27,790

the days of the World Wide Web yeah but

746

00:32:31,169 --> 00:32:29,350

when the wave came in it was all the

747

00:32:34,110 --> 00:32:31,179

skeptics webpage there was a link to a

748

00:32:35,580 --> 00:32:34,120

quiz on the webpage and it's now not

749

00:32:37,289 --> 00:32:35,590

actually on the skipper's web pages such

750

00:32:39,810 --> 00:32:37,299

as has a page of its own yeah there's a

751  
00:32:42,870 --> 00:32:39,820  
link to it and anybody can go there and

752  
00:32:44,549 --> 00:32:42,880  
have a habit clicking it that the the

753  
00:32:46,830 --> 00:32:44,559  
quiz it's not a little test of knowledge

754  
00:32:48,840 --> 00:32:46,840  
you know I thought while you can ask

755  
00:32:51,810 --> 00:32:48,850  
questions like you know how old's the

756  
00:32:54,030 --> 00:32:51,820  
earth is it 6,000 years old or four

757  
00:32:56,400 --> 00:32:54,040  
billion years old you know if you tix

758  
00:32:58,590 --> 00:32:56,410  
Excel is old bad bad bad answer no

759  
00:32:59,880 --> 00:32:58,600  
biscuit you know no point for that you

760  
00:33:02,120 --> 00:32:59,890  
know so you're conducting your like an

761  
00:33:05,310 --> 00:33:02,130  
interrogation or an examination on

762  
00:33:07,230 --> 00:33:05,320  
skeptical policy yeah and can tell off

763  
00:33:09,030 --> 00:33:07,240

people who don't conform I thought no

764

00:33:11,970 --> 00:33:09,040

it's not like that people people know

765

00:33:14,310 --> 00:33:11,980

this stuff already so while it puts a

766

00:33:16,650 --> 00:33:14,320

light-hearted factoids in like you know

767

00:33:18,330 --> 00:33:16,660

did the Titanic go left or right of the

768

00:33:20,730 --> 00:33:18,340

iceberg this is the days before the

769

00:33:23,250 --> 00:33:20,740

Titanic was discovered it was known that

770

00:33:25,590 --> 00:33:23,260

it would lift ah but there was actually

771

00:33:26,909 --> 00:33:25,600

a visa white went left all right you can

772

00:33:29,159 --> 00:33:26,919

ask a question like that and the

773

00:33:31,260 --> 00:33:29,169

question does have an answer yeah a nice

774

00:33:34,080 --> 00:33:31,270

to me that I still read a lot a lot of

775

00:33:36,659 --> 00:33:34,090

obscure books again before before

776

00:33:39,690 --> 00:33:36,669

Wikipedia Wikipedia really bug as my

777

00:33:42,120 --> 00:33:39,700

quiz up maybe you try to pose questions

778

00:33:43,680 --> 00:33:42,130

that people can't run to Google or

779

00:33:45,470 --> 00:33:43,690

Wikipedia to find out well there's

780

00:33:48,320 --> 00:33:45,480

nobody questions you can't find it

781

00:33:51,980 --> 00:33:48,330

um but yeah you need something obscure

782

00:33:53,299 --> 00:33:51,990

in a book here like um how much human

783

00:33:56,960 --> 00:33:53,309

was in Hitler's bladder when he

784

00:33:58,700 --> 00:33:56,970

committed suicide obscure Russian

785

00:34:01,340 --> 00:33:58,710

autopsy which which I've been which is

786

00:34:03,320 --> 00:34:01,350

now thought to be forged but at the time

787

00:34:05,480 --> 00:34:03,330

it was thought to be real so that they

788

00:34:09,590 --> 00:34:05,490

hit like she did go to the bog before he

789

00:34:11,030 --> 00:34:09,600

cut himself gurbles did not not many

790

00:34:12,980 --> 00:34:11,040

people know this you know so you can ask

791

00:34:16,280 --> 00:34:12,990

a question about it and that's obscure

792

00:34:17,990 --> 00:34:16,290

very obscure as the quiz makes clear you

793

00:34:20,000 --> 00:34:18,000

know I already know the answers sort of

794

00:34:23,109 --> 00:34:20,010

wanted something witty so you're more

795

00:34:24,770 --> 00:34:23,119

interested in people using their

796

00:34:26,899 --> 00:34:24,780

imagination to come up with interesting

797

00:34:30,169 --> 00:34:26,909

answers oh yeah that's as other people

798

00:34:32,450 --> 00:34:30,179

can then read see you can I asked here

799

00:34:37,070 --> 00:34:32,460

in 1899 there was a world land speed

800

00:34:40,159 --> 00:34:37,080

record held in France and various

801  
00:34:42,169 --> 00:34:40,169  
vehicles entered the winning vehicle did

802  
00:34:44,570 --> 00:34:42,179  
about 65 miles an hour how was it

803  
00:34:48,290 --> 00:34:44,580  
propelled and actually the answer is

804  
00:34:52,580 --> 00:34:48,300  
electricity given by batteries but I got

805  
00:34:54,619 --> 00:34:52,590  
answers in like testosterone vanity you

806  
00:34:56,480 --> 00:34:54,629  
know but you actually better than me

807  
00:34:58,520 --> 00:34:56,490  
alarms they're funnier Nevada the bid

808  
00:35:00,560 --> 00:34:58,530  
bid on the relation you score according

809  
00:35:03,349 --> 00:35:00,570  
to imagination not necessarily the right

810  
00:35:05,660 --> 00:35:03,359  
hand side oaks court orders I just look

811  
00:35:08,210 --> 00:35:05,670  
at the answer I used to a pointer we

812  
00:35:11,210 --> 00:35:08,220  
know every month um it's all the same

813  
00:35:13,970 --> 00:35:11,220

people to do it so if you google on dr.

814

00:35:16,130 --> 00:35:13,980

Bob's trivia quiz yeah you know come up

815

00:35:17,240 --> 00:35:16,140

and done this you're still going it's

816

00:35:20,630 --> 00:35:17,250

getting harder and harder to find

817

00:35:22,640 --> 00:35:20,640

questions and I kind of not very web

818

00:35:24,080 --> 00:35:22,650

savvy so I've recently been able to put

819

00:35:27,290 --> 00:35:24,090

pictures on it let's take me some time

820

00:35:28,790 --> 00:35:27,300

to find out how yeah but is easier with

821

00:35:30,680 --> 00:35:28,800

pictures you can put a picture of cell

822

00:35:32,330 --> 00:35:30,690

you up and say what's this yeah the

823

00:35:33,650 --> 00:35:32,340

people can have a shot at it alright

824

00:35:35,900 --> 00:35:33,660

well that's great well thanks for

825

00:35:38,000 --> 00:35:35,910

dropping by Steve are in the coming

826

00:35:39,830 --> 00:35:38,010

weeks i'll ask you little bits and

827

00:35:41,240 --> 00:35:39,840

pieces some other topics i know you've

828

00:35:43,700 --> 00:35:41,250

been a long time skeptic in the

829

00:35:45,230 --> 00:35:43,710

skeptical supporter and well on behalf

830

00:35:46,609 --> 00:35:45,240

of the skeptic zone and the listeners

831

00:35:49,730 --> 00:35:46,619

thank you for being a sponsor of the

832

00:35:51,990 --> 00:35:49,740

show oh no whoa is Richard

833

00:35:54,090 --> 00:35:52,000

welcome to a week in science from our

834

00:35:57,150 --> 00:35:54,100

iOS bringing you the science you need to

835

00:36:00,720 --> 00:35:57,160

know 2014 was a great year for science

836

00:36:02,460 --> 00:36:00,730

but how would 2015 compare here's three

837

00:36:08,550 --> 00:36:02,470

exciting things that we're watching out

838

00:36:10,620 --> 00:36:08,560

for firstly we've got high hopes for

839

00:36:14,550 --> 00:36:10,630

NASA's new Horizons mission to study

840

00:36:17,190 --> 00:36:14,560

Pluto and its moons launched in 2006 and

841

00:36:19,950 --> 00:36:17,200

hibernating since the spacecraft was

842

00:36:22,200 --> 00:36:19,960

woken up late 2014 to prepare for its

843

00:36:24,930 --> 00:36:22,210

encounter with the Pluto system some

844

00:36:26,850 --> 00:36:24,940

three billion miles from Earth one

845

00:36:28,680 --> 00:36:26,860

difficulty will be communicating with

846

00:36:31,860 --> 00:36:28,690

the spacecraft across such a long

847

00:36:33,960 --> 00:36:31,870

distance to give you some idea the wake

848

00:36:35,970 --> 00:36:33,970

up messages from New Horizons took

849

00:36:39,030 --> 00:36:35,980

nearly four and a half hours to reach

850

00:36:41,130 --> 00:36:39,040

Earth the mission is to study Pluto and

851  
00:36:43,560 --> 00:36:41,140  
its moons to understand more about them

852  
00:36:45,270 --> 00:36:43,570  
and how they fit in our solar system the

853  
00:36:47,430 --> 00:36:45,280  
New Horizons spacecraft will then

854  
00:36:49,200 --> 00:36:47,440  
continue on to study the Kuiper belt a

855  
00:36:51,900 --> 00:36:49,210  
rocky region surrounding our solar

856  
00:36:57,180 --> 00:36:51,910  
system made up of icy remnants from when

857  
00:36:58,980 --> 00:36:57,190  
the solar system was formed in 2015 two

858  
00:37:00,870 --> 00:36:58,990  
swiss explorers will attempt to

859  
00:37:03,480 --> 00:37:00,880  
circumnavigate the globe in a solar

860  
00:37:05,940 --> 00:37:03,490  
powered plane it's a single-seat

861  
00:37:09,090 --> 00:37:05,950  
aircraft made of carbon fiber with a

862  
00:37:12,180 --> 00:37:09,100  
wingspan of 72 meters it's wider than a

863  
00:37:13,940 --> 00:37:12,190

Boeing 747 but at weighs just two

864

00:37:16,830 --> 00:37:13,950

thousand three hundred kilograms

865

00:37:19,190 --> 00:37:16,840

covering the wings are 17,000 solar

866

00:37:22,580 --> 00:37:19,200

cells running four electric motors

867

00:37:26,070 --> 00:37:22,590

during the day the solar cells recharge

868

00:37:29,040 --> 00:37:26,080

663 kilograms of lithium batteries so

869

00:37:31,320 --> 00:37:29,050

the aircraft can fly at night they're 35

870

00:37:34,230 --> 00:37:31,330

thousand kilometer journey is expected

871

00:37:37,110 --> 00:37:34,240

to take around 500 total flying hours

872

00:37:38,610 --> 00:37:37,120

with only ten stops this project could

873

00:37:41,370 --> 00:37:38,620

be a breakthrough for solar powered

874

00:37:43,350 --> 00:37:41,380

flight but at an average speed of 70

875

00:37:47,280 --> 00:37:43,360

kilometers an hour it's probably some

876  
00:37:50,010 --> 00:37:47,290  
time before it will be used commercially

877  
00:37:52,320 --> 00:37:50,020  
and finally we think you should keep an

878  
00:37:55,020 --> 00:37:52,330  
eye on the Bloodhound SSC project from

879  
00:37:57,150 --> 00:37:55,030  
the UK the bloodhound supersonic car

880  
00:38:00,000 --> 00:37:57,160  
will attempt to break the current land

881  
00:38:03,720 --> 00:38:00,010  
speed record the aim is 1,000 miles per

882  
00:38:07,020 --> 00:38:03,730  
hour or over 1,600 kilometers per hour

883  
00:38:09,600 --> 00:38:07,030  
given that the current record is 763

884  
00:38:12,510 --> 00:38:09,610  
miles per hour this is a massive jump

885  
00:38:15,450 --> 00:38:12,520  
the project is run by Richard noble and

886  
00:38:17,730 --> 00:38:15,460  
features pilot Andy green together they

887  
00:38:19,410 --> 00:38:17,740  
hold the current land speed record the

888  
00:38:22,200 --> 00:38:19,420

reason for attempting to break their own

889

00:38:24,390 --> 00:38:22,210

record is to inspire school students to

890

00:38:26,610 --> 00:38:24,400

study science technology engineering and

891

00:38:29,760 --> 00:38:26,620

maths at University their record

892

00:38:31,860 --> 00:38:29,770

attempts will be in 2016 but 2015 will

893

00:38:35,100 --> 00:38:31,870

see their first high speed test in the

894

00:38:37,380 --> 00:38:35,110

car that's out 2015 watch list there's

895

00:38:42,570 --> 00:38:37,390

more information on the rirs website are

896

00:38:58,370 --> 00:38:42,580

I aus org dot a you I'm Tony Amaya and

897

00:39:03,540 --> 00:39:01,920

hi I'm audit oh yeah Kristen or evil

898

00:39:05,250 --> 00:39:03,550

tips advice on logic lifted off the

899

00:39:06,960 --> 00:39:05,260

skeptic zone um skip the comedian or

900

00:39:08,700 --> 00:39:06,970

again I think mushky blog get upper

901  
00:39:10,110 --> 00:39:08,710  
bleph a podcast over and against capsis

902  
00:39:12,660 --> 00:39:10,120  
driven me like if I'm ever doctor is

903  
00:39:14,670 --> 00:39:12,670  
mack center of escape system and loop or

904  
00:39:16,650 --> 00:39:14,680  
hyper versus the deep plane or textured

905  
00:39:18,120 --> 00:39:16,660  
and calendar or escaped escaped to death

906  
00:39:19,800 --> 00:39:18,130  
or like you till I will escape this

907  
00:39:21,480 --> 00:39:19,810  
killer search it skips is Logan of

908  
00:39:23,130 --> 00:39:21,490  
authority and lay the disk ateres hextep

909  
00:39:26,670 --> 00:39:23,140  
escapes is for Omar Sadiki know Delta

910  
00:39:29,400 --> 00:39:26,680  
yourself Skip's is docked mo hello I'm

911  
00:39:30,750 --> 00:39:29,410  
moderate and I'm Kristin and we want to

912  
00:39:32,400 --> 00:39:30,760  
let you know that there are lots of

913  
00:39:34,320 --> 00:39:32,410

Norwegian skeptics for you to get to

914

00:39:36,270 --> 00:39:34,330

know there are blogs and pub mates and a

915

00:39:37,710 --> 00:39:36,280

podcast and the Norwegian skeptics also

916

00:39:39,690 --> 00:39:37,720

do paranormal tests and consumer

917

00:39:41,880 --> 00:39:39,700

activism to find out more Google

918

00:39:50,970 --> 00:39:41,890

Norwegian skeptics or visit skept

919

00:39:59,220 --> 00:39:55,980

here's may not spooky action at the

920

00:40:03,130 --> 00:40:01,540

people rushing people hushing people

921

00:40:05,020 --> 00:40:03,140

shushing people go and get out of my lap

922

00:40:06,610 --> 00:40:05,030

because it's all happening here at

923

00:40:09,370 --> 00:40:06,620

skeptics in the pub the crown hotel

924

00:40:11,620 --> 00:40:09,380

first thursday of each month it goes off

925

00:40:13,030 --> 00:40:11,630

and who we got here David David I've

926

00:40:15,600 --> 00:40:13,040

spoken to a few times and of course

927

00:40:18,610 --> 00:40:15,610

James Randi has announced he's retiring

928

00:40:20,950 --> 00:40:18,620

do we need leaders still in the septagon

929

00:40:23,290 --> 00:40:20,960

movement or is a bit more organic do we

930

00:40:25,720 --> 00:40:23,300

really need people like that at this

931

00:40:28,690 --> 00:40:25,730

point probably not anymore but he did

932

00:40:31,240 --> 00:40:28,700

start the entire movement along with

933

00:40:32,170 --> 00:40:31,250

nichole seguin i think so i think i

934

00:40:34,270 --> 00:40:32,180

would get along quite where they were

935

00:40:35,770 --> 00:40:34,280

okay without him so we don't need a

936

00:40:38,530 --> 00:40:35,780

replacement you aren't thinking of

937

00:40:40,570 --> 00:40:38,540

growing a beard ah no I don't take

938

00:40:43,000 --> 00:40:40,580

agregó a white beard anyway at my age

939

00:40:46,300 --> 00:40:43,010

well look the word on the street is he

940

00:40:47,880 --> 00:40:46,310

bleaches his anyway all ok ok ok so you

941

00:40:50,380 --> 00:40:47,890

reckon it is a bit more organic now

942

00:40:53,830 --> 00:40:50,390

it'll probably get along by go along by

943

00:40:55,090 --> 00:40:53,840

itself ok James Randi is retiring you've

944

00:40:56,740 --> 00:40:55,100

got a bit of a beard there you could

945

00:40:58,870 --> 00:40:56,750

grow the beard you couldn't bleach it a

946

00:41:00,640 --> 00:40:58,880

bit you could be the new James Randi do

947

00:41:02,530 --> 00:41:00,650

we need leaders like that in the

948

00:41:05,830 --> 00:41:02,540

skeptical movement now I think when

949

00:41:07,630 --> 00:41:05,840

James from james randi duties so that a

950

00:41:11,250 --> 00:41:07,640

good purpose to get it all started on

951  
00:41:13,380 --> 00:41:11,260  
and he's got to take it easy now

952  
00:41:15,900 --> 00:41:13,390  
and then there are armed there are

953  
00:41:19,380 --> 00:41:15,910  
others who can sort of up there with him

954  
00:41:21,510 --> 00:41:19,390  
I think it'll it'll go on quite

955  
00:41:22,770 --> 00:41:21,520  
swimmingly with it without him and okay

956  
00:41:25,530 --> 00:41:22,780  
well so you think we're a bit more

957  
00:41:27,480 --> 00:41:25,540  
organic now don't need leaders yeah we

958  
00:41:30,390 --> 00:41:27,490  
need leaders but we don't we could

959  
00:41:32,370 --> 00:41:30,400  
probably go quite well with without

960  
00:41:34,380 --> 00:41:32,380  
somebody up this heavy weight is Randy

961  
00:41:35,970 --> 00:41:34,390  
I'm here at the bar which is where the

962  
00:41:37,200 --> 00:41:35,980  
true opinions are heard in fact if

963  
00:41:38,820 --> 00:41:37,210

you're not at the bar really you're

964

00:41:41,640 --> 00:41:38,830

wasting your time so with james randi

965

00:41:43,170 --> 00:41:41,650

moving on do we need leaders I think

966

00:41:44,820 --> 00:41:43,180

we're still always need leaders you know

967

00:41:46,590 --> 00:41:44,830

otherwise you're just a bunch of cats I

968

00:41:50,700 --> 00:41:46,600

mean it skeptic sahar and after heard as

969

00:41:51,570 --> 00:41:50,710

it is you got any suggestions oh geez I

970

00:41:54,450 --> 00:41:51,580

don't know who would take his place

971

00:41:56,040 --> 00:41:54,460

maybe stephen develop that or any of

972

00:41:57,540 --> 00:41:56,050

that team I need that team actually that

973

00:41:59,520 --> 00:41:57,550

they're all well-spoken the great Evan

974

00:42:02,430 --> 00:41:59,530

Bernstein you know the brothers and yeah

975

00:42:04,080 --> 00:42:02,440

fantastic yeah and yeah it was a bit I

976  
00:42:05,160 --> 00:42:04,090  
knew Randy was getting on a bit but I

977  
00:42:06,510 --> 00:42:05,170  
didn't know he was going to officially

978  
00:42:08,820 --> 00:42:06,520  
announce his retirement I thought he was

979  
00:42:10,650 --> 00:42:08,830  
just gonna slowly sort of fade away

980  
00:42:12,000 --> 00:42:10,660  
there and go okay I won't do as much but

981  
00:42:13,440 --> 00:42:12,010  
it's like that's it I'm putting my feet

982  
00:42:14,310 --> 00:42:13,450  
up that's why that's what I would have

983  
00:42:15,930 --> 00:42:14,320  
thought i would have thought he just

984  
00:42:17,370 --> 00:42:15,940  
would have been there till whenever you

985  
00:42:19,170 --> 00:42:17,380  
know decided they couldn't do it i

986  
00:42:21,510 --> 00:42:19,180  
reckon he's decided to retire because

987  
00:42:23,190 --> 00:42:21,520  
he's finally going to shave maybe that's

988  
00:42:25,380 --> 00:42:23,200

it and they can never be recognized no

989

00:42:26,670 --> 00:42:25,390

no it is anyway so yeah it's raw it

990

00:42:28,710 --> 00:42:26,680

sounds like well it sounds like a plan

991

00:42:29,880 --> 00:42:28,720

why not here's a moment a strong opinion

992

00:42:31,530 --> 00:42:29,890

and I haven't even finished their meal

993

00:42:33,210 --> 00:42:31,540

and they go strong opinion your head the

994

00:42:35,580 --> 00:42:33,220

glass is only half empty and you have a

995

00:42:38,730 --> 00:42:35,590

strong opinion what do you think I love

996

00:42:41,070 --> 00:42:38,740

James ready well yeah I mean touche Mesa

997

00:42:43,260 --> 00:42:41,080

is retiring my my theory is that he's

998

00:42:44,670 --> 00:42:43,270

actually decided to shave so now know

999

00:42:46,470 --> 00:42:44,680

what he look like anyway if he did but

1000

00:42:48,480 --> 00:42:46,480

but you know I mean it's not like he

1001  
00:42:51,570 --> 00:42:48,490  
didn't give it a big dash I mean he'll

1002  
00:42:54,030 --> 00:42:51,580  
eat shouldn't he put his feet up yes he

1003  
00:42:56,070 --> 00:42:54,040  
deserves a wonderful retirement but yeah

1004  
00:42:58,020 --> 00:42:56,080  
we need figureheads like you to come

1005  
00:42:59,430 --> 00:42:58,030  
forward any suggestion who might be

1006  
00:43:01,260 --> 00:42:59,440  
someone that would be of a similar ilk

1007  
00:43:05,010 --> 00:43:01,270  
that could eat not so much replace him

1008  
00:43:07,270 --> 00:43:05,020  
but do this or thing Richard Saunders

1009  
00:43:08,859 --> 00:43:07,280  
that's true and I've got to say he

1010  
00:43:12,370 --> 00:43:08,869  
probably would cut quite a figure with a

1011  
00:43:15,039 --> 00:43:12,380  
beard yes yes it just yet give him some

1012  
00:43:17,260 --> 00:43:15,049  
time here you gentlemen got any thoughts

1013  
00:43:19,329 --> 00:43:17,270

about this at all no I just love James

1014

00:43:20,920 --> 00:43:19,339

Randi yeah not sure who there's got to

1015

00:43:23,529 --> 00:43:20,930

be someone into james randi foundation

1016

00:43:25,329 --> 00:43:23,539

who who could proceed are succeeding

1017

00:43:27,640 --> 00:43:25,339

it's been a lot of work I've these have

1018

00:43:29,170 --> 00:43:27,650

you got opinion on this at all sir yep I

1019

00:43:31,839 --> 00:43:29,180

think there should always be people to

1020

00:43:34,870 --> 00:43:31,849

do all the things that James Randi is

1021

00:43:36,370 --> 00:43:34,880

done because the sharpens are just

1022

00:43:39,279 --> 00:43:36,380

charlatans are just going to keep on

1023

00:43:41,140 --> 00:43:39,289

coming and look what's the whew that

1024

00:43:42,670 --> 00:43:41,150

really gets your goat by the way I often

1025

00:43:44,799 --> 00:43:42,680

ask people this well what's the Wu was

1026

00:43:47,650 --> 00:43:44,809

it astrology or what's the one that

1027

00:43:50,950 --> 00:43:47,660

really annoys you the most that's a hard

1028

00:43:54,789 --> 00:43:50,960

i just hate cults in general but in

1029

00:43:59,400 --> 00:43:54,799

terms of general new age were I probably

1030

00:44:01,329 --> 00:43:59,410

think homeopathy is right up on the list

1031

00:44:03,099 --> 00:44:01,339

well I've moved to a different part of

1032

00:44:05,500 --> 00:44:03,109

the room where the red wine is flowing

1033

00:44:07,120 --> 00:44:05,510

win the red wine section of the crown

1034

00:44:08,980 --> 00:44:07,130

hotel here now what do you think of the

1035

00:44:10,690 --> 00:44:08,990

issue of the evening about do we need a

1036

00:44:12,670 --> 00:44:10,700

replacement for James Randi do we need a

1037

00:44:15,490 --> 00:44:12,680

figurehead well I think it's always good

1038

00:44:17,950 --> 00:44:15,500

to have a charismatic person who is out

1039

00:44:21,910 --> 00:44:17,960

there spruiking your organization have

1040

00:44:23,260 --> 00:44:21,920

you any other any suggestions oh well

1041

00:44:26,049 --> 00:44:23,270

they need to be skeptical and

1042

00:44:28,930 --> 00:44:26,059

charismatic so a lot of your people have

1043

00:44:31,059 --> 00:44:28,940

said maybe comedians we've got skeptical

1044

00:44:32,289 --> 00:44:31,069

comedians or people of that that ilk

1045

00:44:34,359 --> 00:44:32,299

because they know how to think on their

1046

00:44:35,380 --> 00:44:34,369

feet and they know how to handle a press

1047

00:44:37,480 --> 00:44:35,390

conference they might not have the

1048

00:44:39,490 --> 00:44:37,490

scientific backing but they'd be able to

1049

00:44:42,039 --> 00:44:39,500

so it's more important to have the

1050

00:44:44,289 --> 00:44:42,049

substance and then you find someone

1051

00:44:47,079 --> 00:44:44,299

who's got the facility you know to put

1052

00:44:48,880 --> 00:44:47,089

the message across personally so we're

1053

00:44:50,200 --> 00:44:48,890

looking for an australian stephen Fry's

1054

00:44:51,970 --> 00:44:50,210

that what you meant

1055

00:44:56,859 --> 00:44:51,980

it would be good but I don't think that

1056

00:44:58,480 --> 00:44:56,869

there is something sadly thank you well

1057

00:45:00,400 --> 00:44:58,490

do you think we still need a figurehead

1058

00:45:02,020 --> 00:45:00,410

like that in the movement or not I think

1059

00:45:04,329 --> 00:45:02,030

we have many of them you know and when

1060

00:45:07,390 --> 00:45:04,339

you look at Richard Dawkins and the

1061

00:45:10,560 --> 00:45:07,400

skeptic guides the universe Crocker his

1062

00:45:13,329 --> 00:45:10,570

hepcidin merseyside guys what they do

1063

00:45:15,430 --> 00:45:13,339

I'm thinking Jay novella teach him a bit

1064

00:45:18,160 --> 00:45:15,440

of a scape ology would a fake beard on

1065

00:45:19,870 --> 00:45:18,170

him you know he can do town yeah I

1066

00:45:21,849 --> 00:45:19,880

figure I think there's plenty of

1067

00:45:23,920 --> 00:45:21,859

characters in the movement that will

1068

00:45:25,750 --> 00:45:23,930

progress it along new ones will come

1069

00:45:28,000 --> 00:45:25,760

through and obviously we got Richard

1070

00:45:30,310 --> 00:45:28,010

here in Australia so I'm also thinking

1071

00:45:31,839 --> 00:45:30,320

how about teller I'm intelli talks when

1072

00:45:33,220 --> 00:45:31,849

he's not part of the Act he could be you

1073

00:45:35,020 --> 00:45:33,230

know tell it could be the new James

1074

00:45:37,240 --> 00:45:35,030

Randi what do you think sir well thank

1075

00:45:39,190 --> 00:45:37,250

you he's still your fanging into those

1076  
00:45:42,010 --> 00:45:39,200  
chips at haven't you eaten for two weeks

1077  
00:45:43,930 --> 00:45:42,020  
no I haven't what do you reckon about

1078  
00:45:45,400 --> 00:45:43,940  
the whole james randi retiring thing or

1079  
00:45:47,800 --> 00:45:45,410  
is it just another magic act he'll be

1080  
00:45:49,030 --> 00:45:47,810  
back haha hey I have to be honest I

1081  
00:45:50,530 --> 00:45:49,040  
actually thought he'd already retired

1082  
00:45:53,079 --> 00:45:50,540  
when he cuz he stepped down from the

1083  
00:45:54,310 --> 00:45:53,089  
presidency of the sheriff other was

1084  
00:45:55,990 --> 00:45:54,320  
winding it back but he sort of

1085  
00:45:57,550 --> 00:45:56,000  
officially drawn a line under a year

1086  
00:46:00,940 --> 00:45:57,560  
well it doesn't surprise me he's not

1087  
00:46:05,500 --> 00:46:00,950  
exactly young anymore yeah 86 isn't 86

1088  
00:46:08,680 --> 00:46:05,510

yeah blame him never right it was good

1089

00:46:09,609 --> 00:46:08,690

it was gay why'd you take so long well

1090

00:46:12,310 --> 00:46:09,619

do you think there's anyone that could

1091

00:46:14,680 --> 00:46:12,320

replace it um I don't think we need a

1092

00:46:18,190 --> 00:46:14,690

single figure headed like we said before

1093

00:46:19,900 --> 00:46:18,200

I think there are plenty of prominent

1094

00:46:21,270 --> 00:46:19,910

people that can actually stand up and

1095

00:46:23,440 --> 00:46:21,280

say things get noticed by the media

1096

00:46:25,390 --> 00:46:23,450

something people have been mentioning to

1097

00:46:26,560 --> 00:46:25,400

me as I've asked this tonight is some

1098

00:46:28,150 --> 00:46:26,570

people have been saying well maybe we

1099

00:46:29,920 --> 00:46:28,160

need someone who's a bit of a comedian

1100

00:46:31,960 --> 00:46:29,930

or someone who's a bit more of a public

1101  
00:46:34,480 --> 00:46:31,970  
speaker and as fast on their feet rather

1102  
00:46:36,099 --> 00:46:34,490  
than the science backing to represent

1103  
00:46:40,150 --> 00:46:36,109  
the skeptic sometime how do you feel

1104  
00:46:41,580 --> 00:46:40,160  
about that well I actually think it's

1105  
00:46:43,650 --> 00:46:41,590  
more about whom

1106  
00:46:45,570 --> 00:46:43,660  
who's credible and who can get their

1107  
00:46:46,920 --> 00:46:45,580  
media's attention because there's no

1108  
00:46:48,360 --> 00:46:46,930  
real leader of the skipping move and

1109  
00:46:51,150 --> 00:46:48,370  
it's like trying to herd cats as more

1110  
00:46:53,280 --> 00:46:51,160  
like Guzman who's a spokesman mmm and I

1111  
00:46:55,860 --> 00:46:53,290  
think it is just room for multiple very

1112  
00:46:57,690 --> 00:46:55,870  
prominent spokesman and is anyone come

1113  
00:47:00,360 --> 00:46:57,700

to mind no I think you're thinking

1114

00:47:02,850 --> 00:47:00,370

steady Eddie someone like that in

1115

00:47:05,460 --> 00:47:02,860

Australia dr. Carl is definitely a big

1116

00:47:06,570 --> 00:47:05,470

voice of skepticism yeah and everyone it

1117

00:47:11,040 --> 00:47:06,580

pretty much everyone in the stranger

1118

00:47:14,160 --> 00:47:11,050

knows who he is hmm and something okay

1119

00:47:16,080 --> 00:47:14,170

thanks you my name is Neil male what do

1120

00:47:17,400 --> 00:47:16,090

you reckon with james randi retiring

1121

00:47:18,750 --> 00:47:17,410

does the skeptical movement need a

1122

00:47:21,060 --> 00:47:18,760

figurehead or it could it be more

1123

00:47:22,680 --> 00:47:21,070

organic and just go on without necessary

1124

00:47:24,290 --> 00:47:22,690

personalities like that so just back

1125

00:47:27,330 --> 00:47:24,300

back back back back back he's retiring

1126

00:47:29,550 --> 00:47:27,340

yeah well he's 86 and he said he said

1127

00:47:31,140 --> 00:47:29,560

that's it I'm gonna they're not gonna do

1128

00:47:33,000 --> 00:47:31,150

the amazing meeting after the next one

1129

00:47:34,110 --> 00:47:33,010

and he's gonna sort of he's gay it's not

1130

00:47:35,970 --> 00:47:34,120

going to do the skeptical stuff

1131

00:47:37,140 --> 00:47:35,980

officially anymore so it is retiring

1132

00:47:38,730 --> 00:47:37,150

does this mean he's going to start

1133

00:47:39,870 --> 00:47:38,740

believing in things like is you're going

1134

00:47:41,430 --> 00:47:39,880

to convert is it going to go to the

1135

00:47:43,410 --> 00:47:41,440

other side is it going to start you know

1136

00:47:44,900 --> 00:47:43,420

think about is he start going to hear is

1137

00:47:49,800 --> 00:47:44,910

you start going to start using

1138

00:47:53,850 --> 00:47:49,810

aromatherapy and shave his beard well

1139

00:47:55,530 --> 00:47:53,860

yes believe in a deity these things that

1140

00:47:57,630 --> 00:47:55,540

go along with retirement this is

1141

00:47:59,940 --> 00:47:57,640

interesting because I'm sure we'll have

1142

00:48:01,770 --> 00:47:59,950

to read the press release because the

1143

00:48:03,450 --> 00:48:01,780

devil might be in the details hehe might

1144

00:48:04,860 --> 00:48:03,460

be saying I'm going to stop being a

1145

00:48:06,420 --> 00:48:04,870

skeptic all together you might have

1146

00:48:08,400 --> 00:48:06,430

uncovered something you know well you

1147

00:48:10,680 --> 00:48:08,410

know I think it's always important to

1148

00:48:13,020 --> 00:48:10,690

read the fine print and as you say the

1149

00:48:14,820 --> 00:48:13,030

devil is in the detail where is he going

1150

00:48:16,920 --> 00:48:14,830

with this we need to know so can we

1151  
00:48:19,470 --> 00:48:16,930  
expect to see him on the home shopping

1152  
00:48:21,420 --> 00:48:19,480  
channel selling crystals and well I was

1153  
00:48:23,620 --> 00:48:21,430  
actually thinking he'd brought be doing

1154  
00:48:25,960 --> 00:48:23,630  
a guest appearance and crossing over

1155  
00:48:29,500 --> 00:48:25,970  
better be crossing over with james from

1156  
00:48:32,770 --> 00:48:29,510  
NC yeah that's maybe that's what he

1157  
00:48:34,990 --> 00:48:32,780  
means by retiring and we've got dr. Karl

1158  
00:48:36,160 --> 00:48:35,000  
who I think you actually broadcasting

1159  
00:48:37,570 --> 00:48:36,170  
before there was double J you were

1160  
00:48:38,920 --> 00:48:37,580  
probably Adam William Street reading a

1161  
00:48:41,260 --> 00:48:38,930  
science report before there was even a

1162  
00:48:43,090 --> 00:48:41,270  
transmitter you go back that far I'll go

1163  
00:48:45,400 --> 00:48:43,100

back to wind it was not radio even

1164

00:48:47,290 --> 00:48:45,410

invented when single J we just simply a

1165

00:48:48,910 --> 00:48:47,300

guy with a loud voice shouting loud in

1166

00:48:52,150 --> 00:48:48,920

the backyard now my very first

1167

00:48:56,380 --> 00:48:52,160

appearance was 1975 when I went on to

1168

00:48:58,960 --> 00:48:56,390

double J to talk about my anti-gravity

1169

00:49:00,730 --> 00:48:58,970

machine and there were one or two other

1170

00:49:03,340 --> 00:49:00,740

bits and pieces between i reappeared in

1171

00:49:04,750 --> 00:49:03,350

1981 for the launch of the first space

1172

00:49:06,580 --> 00:49:04,760

shuttle and then have been there ever

1173

00:49:08,110 --> 00:49:06,590

since what made them think hey we really

1174

00:49:09,610 --> 00:49:08,120

need the Science reporter there because

1175

00:49:11,230 --> 00:49:09,620

there was nothing like that going on

1176

00:49:14,560 --> 00:49:11,240

radio at the time was that simply the

1177

00:49:18,700 --> 00:49:14,570

risen Tony barrel Tony barrel was a man

1178

00:49:21,820 --> 00:49:18,710

of great insight and foresight so he

1179

00:49:25,570 --> 00:49:21,830

could be deep and you'd see what would

1180

00:49:27,430 --> 00:49:25,580

be a necessary trend and at one stage I

1181

00:49:30,100 --> 00:49:27,440

got flicked off from Triple J by one of

1182

00:49:32,200 --> 00:49:30,110

the managers who said basically we've

1183

00:49:33,850 --> 00:49:32,210

discovered everything in there is this

1184

00:49:35,530 --> 00:49:33,860

for know about side so we don't need you

1185

00:49:37,390 --> 00:49:35,540

anymore cough well it's like you've been

1186

00:49:38,860 --> 00:49:37,400

vindicated because people love science

1187

00:49:41,110 --> 00:49:38,870

information to really come of age now

1188

00:49:42,940 --> 00:49:41,120

it's always been there is basically

1189

00:49:44,740 --> 00:49:42,950

answering quiroz because science is not

1190

00:49:46,330 --> 00:49:44,750

a bunch of facts so ice is just simply a

1191

00:49:48,730 --> 00:49:46,340

way to understand the world around us

1192

00:49:50,530 --> 00:49:48,740

and I'm very lucky to have been able to

1193

00:49:52,810 --> 00:49:50,540

have a platform such as double J then

1194

00:49:54,610 --> 00:49:52,820

triple j on which to expound that one

1195

00:49:56,860 --> 00:49:54,620

has been the science fact that has blown

1196

00:49:58,960 --> 00:49:56,870

your tiny mind and that of the listeners

1197

00:50:00,970 --> 00:49:58,970

over all the years there's so many in

1198

00:50:02,920 --> 00:50:00,980

strange things through them now two of

1199

00:50:05,140 --> 00:50:02,930

them okay first one is that all a gold

1200

00:50:08,200 --> 00:50:05,150

you'll ever see such as the gold in my

1201  
00:50:11,680 --> 00:50:08,210  
wedding ring was manufactured or this

1202  
00:50:14,200 --> 00:50:11,690  
gold was manufactured inside a star as

1203  
00:50:16,360 --> 00:50:14,210  
it exploded and we're not going to get

1204  
00:50:20,200 --> 00:50:16,370  
any more / to you might think that the

1205  
00:50:24,580 --> 00:50:20,210  
Sun is a mighty beast but the compost

1206  
00:50:27,420 --> 00:50:24,590  
pile in my backyard in terms of how much

1207  
00:50:30,810 --> 00:50:27,430  
energy it generates per kilogram is

1208  
00:50:35,540 --> 00:50:30,820  
forty thousand times more powerful

1209  
00:50:39,480 --> 00:50:35,550  
what Rick Rick oh wow that is very

1210  
00:50:40,890 --> 00:50:39,490  
powerful but it's very big and lazy so

1211  
00:50:42,600 --> 00:50:40,900  
at any given moment is only a few

1212  
00:50:44,760 --> 00:50:42,610  
hundred hydrogen atoms undergoing fusion

1213  
00:50:46,710 --> 00:50:44,770

that's pretty amazing car and that's why

1214

00:50:49,530 --> 00:50:46,720

he continues to be on the radio what is

1215

00:50:50,970 --> 00:50:49,540

the main major scientific advancement or

1216

00:50:52,470 --> 00:50:50,980

discover you think that's around the

1217

00:50:53,910 --> 00:50:52,480

corner that is really going to trick

1218

00:50:55,440 --> 00:50:53,920

your imagination next if you've got an

1219

00:50:58,650 --> 00:50:55,450

inkling in terms of what's going to

1220

00:51:01,410 --> 00:50:58,660

affect people i would say 3d printing 3d

1221

00:51:02,640 --> 00:51:01,420

printing is either the small scale where

1222

00:51:03,960 --> 00:51:02,650

you got to start a small box in your

1223

00:51:06,450 --> 00:51:03,970

house where you can make a gun if you

1224

00:51:09,600 --> 00:51:06,460

want to be crazy or something that see

1225

00:51:12,660 --> 00:51:09,610

size of three warehouses and boeing has

1226

00:51:17,160 --> 00:51:12,670

been using them to make metal paths for

1227

00:51:19,200 --> 00:51:17,170

the inside of 25,000 jet engines the

1228

00:51:21,510 --> 00:51:19,210

environment inside a jet engine is truly

1229

00:51:23,730 --> 00:51:21,520

hostile thousands not hundreds of

1230

00:51:25,170 --> 00:51:23,740

degrees centigrade wind rushing past at

1231

00:51:27,900 --> 00:51:25,180

several hundred kilometers per hour and

1232

00:51:29,040 --> 00:51:27,910

in the future everybody will have a 3d

1233

00:51:30,630 --> 00:51:29,050

printer at home in the same way

1234

00:51:32,040 --> 00:51:30,640

everybody's got a computer it'll be a

1235

00:51:34,470 --> 00:51:32,050

box about the size of a microwave

1236

00:51:36,150 --> 00:51:34,480

that'll have 92 feedstocks one for each

1237

00:51:37,920 --> 00:51:36,160

of them to the periodic table and if you

1238

00:51:39,540 --> 00:51:37,930

want to get a new smartphone you pay a

1239

00:51:40,740 --> 00:51:39,550

couple hundred bucks and then started

1240

00:51:43,440 --> 00:51:40,750

going in the morning there it'll be

1241

00:51:45,750 --> 00:51:43,450

inside your 3d printer and it will have

1242

00:51:48,900 --> 00:51:45,760

atoms of tantalum and titanium and

1243

00:51:50,420 --> 00:51:48,910

silicon and copper and so forth the 3d

1244

00:51:52,650 --> 00:51:50,430

printer is going to revolutionize

1245

00:51:54,960 --> 00:51:52,660

manufacturing does that mean but also

1246

00:51:56,610 --> 00:51:54,970

make food for us you've already used 3d

1247

00:52:00,270 --> 00:51:56,620

printers to make food you'll be able to

1248

00:52:04,590 --> 00:52:00,280

make a violin a vaccine a stub axle for

1249

00:52:06,960 --> 00:52:04,600

your car a smartphone a house a car and

1250

00:52:08,850 --> 00:52:06,970

in fact another 3d printer but will you

1251

00:52:12,000 --> 00:52:08,860

be able to manufacture love dr. Carl

1252

00:52:13,920 --> 00:52:12,010

love and life maybe quantum mechanics is

1253

00:52:16,050 --> 00:52:13,930

has the answer for those we still don't

1254

00:52:32,130 --> 00:52:16,060

know dr. calc Wisniewski thank you for

1255

00:52:38,109 --> 00:52:34,990

the skeptic magazine the journal from

1256

00:52:40,329 --> 00:52:38,119

Australian skeptics subscribe online to

1257

00:52:45,640 --> 00:52:40,339

the world's second oldest skeptical

1258

00:52:48,400 --> 00:52:45,650

magazine visit w WC APA mau and click

1259

00:52:52,359 --> 00:52:48,410

the publication's league you can also

1260

00:52:55,690 --> 00:52:52,369

find their over 30 years on back issues

1261

00:53:13,859 --> 00:52:55,700

free to download the skeptic magazine

1262

00:53:18,999 --> 00:53:16,509

thank you for listening to the skeptic

1263

00:53:20,829 --> 00:53:19,009

zone and happy birthday by the way well

1264

00:53:23,019 --> 00:53:20,839

I didn't have any luck finding my bagel

1265

00:53:25,089 --> 00:53:23,029

hmm no well I just have to settle for

1266

00:53:26,799 --> 00:53:25,099

egg on toast don't forget you people in

1267

00:53:30,219 --> 00:53:26,809

Victoria coming up in a few weeks we

1268

00:53:33,279 --> 00:53:30,229

have the Surf Coast skeptic camp more

1269

00:53:34,679 --> 00:53:33,289

news about that next week now here's a

1270

00:53:36,819 --> 00:53:34,689

little tip for people in Australia

1271

00:53:39,699 --> 00:53:36,829

especially in the capital cities but I'm

1272

00:53:41,769 --> 00:53:39,709

pretty sure you can do this well just

1273

00:53:43,299 --> 00:53:41,779

about everywhere there's a free magazine

1274

00:53:47,949 --> 00:53:43,309

comes out I think what's a month called

1275

00:53:51,969 --> 00:53:47,959

nova in ova you'll find it out the front

1276  
00:53:55,659 --> 00:53:51,979  
of New Age shop source health food shops

1277  
00:53:58,599 --> 00:53:55,669  
or things like that it's called

1278  
00:54:02,380 --> 00:53:58,609  
Australia's holistic journal established

1279  
00:54:07,089 --> 00:54:02,390  
1994 I have a copy here it's really

1280  
00:54:09,969 --> 00:54:07,099  
worth getting it's we use that the

1281  
00:54:13,359 --> 00:54:09,979  
skeptical movement for research for

1282  
00:54:16,630 --> 00:54:13,369  
ideas what's coming up and here we go

1283  
00:54:21,819 --> 00:54:16,640  
what's this John Martin world master

1284  
00:54:24,219 --> 00:54:21,829  
healing 2015 12 cities one day twelve

1285  
00:54:26,529 --> 00:54:24,229  
cities one day oh it's already gone I

1286  
00:54:29,349 --> 00:54:26,539  
wonder if he healed anybody it's full of

1287  
00:54:33,339 --> 00:54:29,359  
ads it's full of ads for all sorts of

1288  
00:54:35,679 --> 00:54:33,349

them shall I say improbable things

1289

00:54:38,729 --> 00:54:35,689

there's crystal healing here well says

1290

00:54:41,919 --> 00:54:38,739

psychic sisters 30 years plus experience

1291

00:54:43,509 --> 00:54:41,929

what else is this one afterlife a guided

1292

00:54:46,569 --> 00:54:43,519

tour of the heavens and it's wonder had

1293

00:54:48,659 --> 00:54:46,579

guided tour of the heavens well that's

1294

00:54:51,729 --> 00:54:48,669

pretty hard to pass up that opportunity

1295

00:54:54,039 --> 00:54:51,739

geo cleanse a simple solution for all

1296

00:54:55,899 --> 00:54:54,049

your electromagnetic radiation in your

1297

00:54:59,140 --> 00:54:55,909

home by this little device in plug it in

1298

00:55:02,620 --> 00:54:59,150

and give us your money all sorts of

1299

00:55:06,059 --> 00:55:02,630

things and articles and bits and pieces

1300

00:55:13,569 --> 00:55:06,069

what's this one drug free pain relief

1301

00:55:14,890 --> 00:55:13,579

hmm unseen energies and it's got up and

1302

00:55:17,829 --> 00:55:14,900

coming events like when the next

1303

00:55:20,399 --> 00:55:17,839

mind-body wallet will be worth checking

1304

00:55:22,989 --> 00:55:20,409

out it's free they just give it away

1305

00:55:25,959 --> 00:55:22,999

good for research good to see what the

1306

00:55:27,130 --> 00:55:25,969

other side are thinking well that's

1307

00:55:29,730 --> 00:55:27,140

enough for this week

1308

00:55:32,170 --> 00:55:29,740

until next week this is Richard Saunders

1309

00:55:38,790 --> 00:55:32,180

without a bagel oh happy birthday by the

1310

00:55:46,150 --> 00:55:41,200

you've been listening to the skeptic

1311

00:55:49,960 --> 00:55:46,160

zone visit her website at [www.skeptic](http://www.skeptic)