

**The Skeptic Zone**  
**Show 285 - 6 April 2014**



**Michael Kruse**

1  
00:00:22,519 --> 00:00:09,090  
welcome to the skeptic zone the podcast

2  
00:00:29,960 --> 00:00:25,349  
hello and welcome to the skeptic zone

3  
00:00:34,020 --> 00:00:29,970  
episode number 285 for the sixth of

4  
00:00:35,819 --> 00:00:34,030  
april 2014 Richard Saunders here with

5  
00:00:37,619 --> 00:00:35,829  
you from Sydney Australia where if I

6  
00:00:40,140 --> 00:00:37,629  
listen out the door listen out the

7  
00:00:45,030 --> 00:00:40,150  
window it's still raining well we did

8  
00:00:47,670 --> 00:00:45,040  
have some time some days of sunny hot

9  
00:00:49,770 --> 00:00:47,680  
weather but now the rain has come back

10  
00:00:52,410 --> 00:00:49,780  
and for those of you in Sydney the

11  
00:00:56,220 --> 00:00:52,420  
seven-day forecast Monday possible

12  
00:00:59,610 --> 00:00:56,230  
shower minimum 18 maximum 23 Tuesday

13  
00:01:02,490 --> 00:00:59,620

gladly minimum 18 maximum 24 Wednesday

14

00:01:04,290 --> 00:01:02,500

possible shower minimal 18 but y'all go

15

00:01:06,990 --> 00:01:04,300

on later but I don't think you want to

16

00:01:08,370 --> 00:01:07,000

hear the the weather forecast I think

17

00:01:10,230 --> 00:01:08,380

you want to hear what's coming up on

18

00:01:12,930 --> 00:01:10,240

this week's episode of the skeptic zone

19

00:01:15,480 --> 00:01:12,940

and we travel to sunny Canada sunny

20

00:01:19,050 --> 00:01:15,490

sometimes Canada we speak to Michael

21

00:01:22,050 --> 00:01:19,060

crews from bad science watch now these

22

00:01:24,540 --> 00:01:22,060

are the people in Canada who watch for

23

00:01:26,490 --> 00:01:24,550

bad science that's why it's called bad

24

00:01:29,520 --> 00:01:26,500

science watching Canada sort of makes

25

00:01:30,600 --> 00:01:29,530

sense when you think about it Michael's

26

00:01:34,770 --> 00:01:30,610

going to tell us about what they're up

27

00:01:38,520 --> 00:01:34,780

to and their investigations into aspects

28

00:01:42,690 --> 00:01:38,530

of chinese traditional medicine after

29

00:01:44,479 --> 00:01:42,700

that it's astrology yes astrology from

30

00:01:47,910 --> 00:01:44,489

the pages of the skeptic magazine

31

00:01:50,729 --> 00:01:47,920

doesn't make much sense does it well we

32

00:01:52,109 --> 00:01:50,739

have a your starts for April coming up

33

00:01:54,869 --> 00:01:52,119

after that for a little bit of light

34

00:01:56,580 --> 00:01:54,879

relief and after your starts for April

35

00:01:58,380 --> 00:01:56,590

it's a weakened science from our friends

36

00:02:01,619 --> 00:01:58,390

at the Royal Institution of Australia

37

00:02:03,859 --> 00:02:01,629

and then to round off the episode a few

38

00:02:07,859 --> 00:02:03,869

interviews I conducted at the last

39

00:02:09,690 --> 00:02:07,869

Sydney skeptics in the pub with some

40

00:02:11,160 --> 00:02:09,700

interesting information for those of you

41

00:02:14,160 --> 00:02:11,170

in the sydney area and the blue

42

00:02:17,070 --> 00:02:14,170

mountains area about other skeptical and

43

00:02:20,100 --> 00:02:17,080

philosophical groups that get together

44

00:02:23,040 --> 00:02:20,110

to meet and before we get into the show

45

00:02:26,000 --> 00:02:23,050

a couple of notes from me oh joy oh joy

46

00:02:29,370 --> 00:02:26,010

I noticed that world homeopathy

47

00:02:29,700 --> 00:02:29,380

awareness week is coming up the 10th to

48

00:02:31,920 --> 00:02:29,710

the sea

49

00:02:35,790 --> 00:02:31,930

see the vapor and their theme this year

50

00:02:40,440 --> 00:02:35,800

is homeopathy for men's health gee

51  
00:02:44,400 --> 00:02:40,450  
thanks homeopathy and a big fat to the

52  
00:02:48,450 --> 00:02:44,410  
better health channel right ww better

53  
00:02:50,700 --> 00:02:48,460  
health VG ova you yes it's involved with

54  
00:02:53,250 --> 00:02:50,710  
the victorian state government they're

55  
00:02:58,260 --> 00:02:53,260  
actually publicizing world homeopathy

56  
00:03:00,630 --> 00:02:58,270  
week her description this year's theme

57  
00:03:02,760 --> 00:03:00,640  
for world homeopathy Awareness Week from

58  
00:03:04,890 --> 00:03:02,770  
the 10 to the 16th of April is men's

59  
00:03:07,700 --> 00:03:04,900  
health and it mentions a few of the

60  
00:03:14,990 --> 00:03:07,710  
things they're looking at including

61  
00:03:18,630 --> 00:03:15,000  
including prostate cancer good heavens

62  
00:03:21,120 --> 00:03:18,640  
what on earth are you thinking better

63  
00:03:24,720 --> 00:03:21,130

health channel at better health Vic

64  
00:03:28,130 --> 00:03:24,730  
you've done a you publicizing homeopathy

65  
00:03:34,350 --> 00:03:28,140  
and mentioning it in relation to

66  
00:03:36,900 --> 00:03:34,360  
prostate cancer you numpties you might

67  
00:03:39,660 --> 00:03:36,910  
want to go to Twitter and express your

68  
00:03:43,560 --> 00:03:39,670  
frustration and if you want to do that

69  
00:03:48,600 --> 00:03:43,570  
that would a handle is at better health

70  
00:03:51,110 --> 00:03:48,610  
gov hmm but in better news better

71  
00:03:54,750 --> 00:03:51,120  
announcements those people in Canberra

72  
00:03:56,880 --> 00:03:54,760  
yeah Australia's capital you lucky

73  
00:03:59,220 --> 00:03:56,890  
people you get to go to the Canberra

74  
00:04:03,390 --> 00:03:59,230  
skeptics events and I notice there's one

75  
00:04:06,330 --> 00:04:03,400  
coming up liquid fuel security it says

76

00:04:10,380 --> 00:04:06,340

she'll be right a talk by Air Vice

77

00:04:11,880 --> 00:04:10,390

Marshal retired John Blackburn now this

78

00:04:14,910 --> 00:04:11,890

is only one in a long line of great

79

00:04:16,530 --> 00:04:14,920

talks that you can enjoy with the

80

00:04:21,120 --> 00:04:16,540

Canberra skeptics the best thing to do

81

00:04:22,890 --> 00:04:21,130

is to go to ww chembra skeptics or geoau

82

00:04:25,920 --> 00:04:22,900

you can actually sign up for their

83

00:04:27,870 --> 00:04:25,930

newsletter if you're in the area and you

84

00:04:31,770 --> 00:04:27,880

won't miss out on one of these excellent

85

00:04:33,990 --> 00:04:31,780

talks again another quick shout out to

86

00:04:35,820 --> 00:04:34,000

the National Geographic Channel thank

87

00:04:37,770 --> 00:04:35,830

you to the Australian national

88

00:04:39,780 --> 00:04:37,780

geographic channel in particular for

89

00:04:42,000 --> 00:04:39,790

supplying me with cosmos packs and I

90

00:04:43,439 --> 00:04:42,010

hope everybody around the world is

91

00:04:46,260 --> 00:04:43,449

enjoying this wonderful

92

00:04:47,640 --> 00:04:46,270

new series of Cosmos well that's all

93

00:04:49,320 --> 00:04:47,650

from me at the moment I'm going to run

94

00:04:53,209 --> 00:04:49,330

downstairs and see if I've got any good

95

00:04:56,999 --> 00:04:53,219

dammmm japanese food about the house

96

00:04:59,700 --> 00:04:57,009

miso soup I quite like miso soup pickled

97

00:05:01,890 --> 00:04:59,710

ginger that's pretty yummy it's all

98

00:05:04,079 --> 00:05:01,900

pretty good sushi and sashimi and all

99

00:05:05,999 --> 00:05:04,089

that sort of stuff I'll see what I can

100

00:05:08,700 --> 00:05:06,009

find i'll see what i can find why I'm

101  
00:05:28,120 --> 00:05:08,710  
doing that I hope you enjoy the skeptic

102  
00:05:32,689 --> 00:05:30,860  
it's been a long cold with the folks it

103  
00:05:34,309 --> 00:05:32,699  
really has it really has especially who

104  
00:05:36,529 --> 00:05:34,319  
those people living in the wonderful

105  
00:05:38,360 --> 00:05:36,539  
country of canada canada which was my

106  
00:05:40,790 --> 00:05:38,370  
home from nineteen sixty eight to

107  
00:05:42,589 --> 00:05:40,800  
nineteen sixty-nine i remembered well no

108  
00:05:44,749 --> 00:05:42,599  
i don't i was too young but never mind

109  
00:05:46,909 --> 00:05:44,759  
about that canada is full of famous

110  
00:05:48,559 --> 00:05:46,919  
people famous people of left canada i'm

111  
00:05:50,930 --> 00:05:48,569  
thinking of I oh I don't know Donald

112  
00:05:52,969 --> 00:05:50,940  
Sutherland William Shatner Paul Shaffer

113  
00:05:55,670 --> 00:05:52,979

and a host of other famous Canadians and

114

00:05:58,969 --> 00:05:55,680

of course a very famous Canyon is on the

115

00:06:01,999 --> 00:05:58,979

line with me right now from Toronto it's

116

00:06:04,189 --> 00:06:02,009

michael cruz from bad science watch

117

00:06:05,120 --> 00:06:04,199

hello Michael hello Richard I'm going to

118

00:06:09,589 --> 00:06:05,130

have to try to live up to that

119

00:06:14,810 --> 00:06:09,599

introduction I'll do my best I do have

120

00:06:16,520 --> 00:06:14,820

very very slight fleeting fleeting

121

00:06:18,439 --> 00:06:16,530

memories of Canada when I was just at

122

00:06:21,200 --> 00:06:18,449

just a little kid and I remember the

123

00:06:23,540 --> 00:06:21,210

snow that's what I really struggling the

124

00:06:25,730 --> 00:06:23,550

huge snow drifts and I understand that

125

00:06:28,339 --> 00:06:25,740

Spring has come back to Canada at last

126

00:06:30,320 --> 00:06:28,349

Oh finally it's been an interminable it

127

00:06:33,230 --> 00:06:30,330

seems months and months now we've had

128

00:06:35,050 --> 00:06:33,240

just heaps of snow and even in Toronto

129

00:06:37,430 --> 00:06:35,060

Toronto has tended tends to be a bit

130

00:06:39,620 --> 00:06:37,440

milder than you were in Saskatchewan I

131

00:06:41,330 --> 00:06:39,630

think weren't you I was it I was in the

132

00:06:43,520 --> 00:06:41,340

Saskatchewan indeed yes that was that's

133

00:06:46,580 --> 00:06:43,530

quite um that's quite a heavily laden

134

00:06:49,670 --> 00:06:46,590

area for snow yes sadly it's rano is

135

00:06:51,850 --> 00:06:49,680

usually whining about you know minus 10

136

00:06:54,499 --> 00:06:51,860

degrees and it's minus 50 Odin and

137

00:06:57,649 --> 00:06:54,509

Saskatchewan but um no finally spring is

138

00:06:59,390 --> 00:06:57,659

coming we are just celebrating sounds

139

00:07:01,520 --> 00:06:59,400

good I wish I could be there to

140

00:07:02,959 --> 00:07:01,530

celebrate it with you but to be honest

141

00:07:06,529 --> 00:07:02,969

i'm looking forward to winter because

142

00:07:08,749 --> 00:07:06,539

we've had a particularly humid hot

143

00:07:11,029 --> 00:07:08,759

summer with lots of humidity and

144

00:07:14,240 --> 00:07:11,039

moisture and humidity and I'm sick of it

145

00:07:16,719 --> 00:07:14,250

so I'll swap you yes I understand I take

146

00:07:19,249 --> 00:07:16,729

it I take a bit of humidity right now

147

00:07:20,899 --> 00:07:19,259

nevermind let's get on to more important

148

00:07:23,390 --> 00:07:20,909

matters of course all right now we've

149

00:07:25,550 --> 00:07:23,400

been running promotions for bad science

150

00:07:27,830 --> 00:07:25,560

watch on the skeptic zone for all of two

151  
00:07:31,010 --> 00:07:27,840  
years now or so and that in that area

152  
00:07:33,140 --> 00:07:31,020  
what can you tell us about bad science

153  
00:07:34,640 --> 00:07:33,150  
watch how's it going lately it's going

154  
00:07:34,970 --> 00:07:34,650  
very well we've been very busy over the

155  
00:07:36,560 --> 00:07:34,980  
past

156  
00:07:39,200 --> 00:07:36,570  
year sort of ramping up our project

157  
00:07:41,990 --> 00:07:39,210  
efforts it's of course we're all

158  
00:07:43,430 --> 00:07:42,000  
completely volunteer organization we've

159  
00:07:46,220 --> 00:07:43,440  
been trying our best to sort of keep up

160  
00:07:48,080 --> 00:07:46,230  
with demand as it were as you know you

161  
00:07:51,470 --> 00:07:48,090  
can another just like any other place as

162  
00:07:53,180 --> 00:07:51,480  
a lot of a lot of fights we need to to

163  
00:07:56,030 --> 00:07:53,190

confront over a lot of fights need to

164

00:07:57,860 --> 00:07:56,040

take on to to confront bad science

165

00:08:00,830 --> 00:07:57,870

certainly and certainly bad advertising

166

00:08:02,450 --> 00:08:00,840

and and the misuse of science for

167

00:08:04,520 --> 00:08:02,460

people's gain so we've been very busy

168

00:08:08,900 --> 00:08:04,530

over the last couple years focusing

169

00:08:11,990 --> 00:08:08,910

mostly on science and public policy and

170

00:08:14,740 --> 00:08:12,000

one of our latest projects was was just

171

00:08:17,060 --> 00:08:14,750

such a thing when we're taking on a new

172

00:08:20,150 --> 00:08:17,070

new public consultation from Health

173

00:08:22,190 --> 00:08:20,160

Canada now this is I guess you're

174

00:08:26,000 --> 00:08:22,200

referring to something that caught my

175

00:08:28,970 --> 00:08:26,010

attention last week or not not very long

176

00:08:31,760 --> 00:08:28,980

ago anyway via a media release and this

177

00:08:35,480 --> 00:08:31,770

is all about the health calendar

178

00:08:38,810 --> 00:08:35,490

ignoring evidence of harm from Chinese

179

00:08:43,030 --> 00:08:38,820

medicines yeah we we have last year we

180

00:08:46,820 --> 00:08:43,040

sort of one of the major impetus for our

181

00:08:48,890 --> 00:08:46,830

development was to to take on my new

182

00:08:52,730 --> 00:08:48,900

policy from from Health Canada which is

183

00:08:56,090 --> 00:08:52,740

our national health service that does

184

00:08:57,650 --> 00:08:56,100

mostly it's a regulator mostly and they

185

00:08:59,090 --> 00:08:57,660

have a new David Department called the

186

00:09:02,080 --> 00:08:59,100

natural health products Directorate

187

00:09:06,580 --> 00:09:02,090

which was set up to to manage

188

00:09:09,110 --> 00:09:06,590

non-pharmaceutical but non-food items

189

00:09:10,640 --> 00:09:09,120

and it's got a separate kind of

190

00:09:12,470 --> 00:09:10,650

framework for regulation for these

191

00:09:15,170 --> 00:09:12,480

products separate from pharmaceuticals

192

00:09:17,690 --> 00:09:15,180

and has its own kind of way of

193

00:09:19,670 --> 00:09:17,700

approaching the regulatory of the

194

00:09:22,070 --> 00:09:19,680

licensing of these products and these

195

00:09:25,040 --> 00:09:22,080

these range from herbal medicines and

196

00:09:26,900 --> 00:09:25,050

homeopathy to yes traditional Chinese

197

00:09:28,970 --> 00:09:26,910

medicines consider herbal medicines as

198

00:09:31,690 --> 00:09:28,980

well as things like shampoo and other

199

00:09:33,860 --> 00:09:31,700

kind of personal health care products

200

00:09:38,300 --> 00:09:33,870

and one of the problems that we

201  
00:09:42,500 --> 00:09:38,310  
identified is that they really attempted

202  
00:09:45,070 --> 00:09:42,510  
to streamline the process of approval we

203  
00:09:47,780 --> 00:09:45,080  
think because of pressure from the

204  
00:09:48,980 --> 00:09:47,790  
manufacturers to sort of allow them to

205  
00:09:52,439 --> 00:09:48,990  
enter the market quick

206  
00:09:54,900 --> 00:09:52,449  
and they have currently over 60,000

207  
00:09:57,540 --> 00:09:54,910  
products licensed which is an incredible

208  
00:09:59,550 --> 00:09:57,550  
amount they were only set up in 1997 and

209  
00:10:01,889 --> 00:09:59,560  
really only got going in 2004 so they've

210  
00:10:03,600 --> 00:10:01,899  
been extremely busy but the problem with

211  
00:10:07,110 --> 00:10:03,610  
licensing so many products is that the

212  
00:10:11,189 --> 00:10:07,120  
the quality of the assessments has

213  
00:10:12,750 --> 00:10:11,199

really we feel gone down in the last few

214

00:10:15,420 --> 00:10:12,760

years especially with the rollout of a

215

00:10:18,629 --> 00:10:15,430

new program that happened a couple years

216

00:10:20,310 --> 00:10:18,639

ago called the pathway that to licensing

217

00:10:22,650 --> 00:10:20,320

which sort of tells the entire story

218

00:10:24,120 --> 00:10:22,660

right they're not really concerned we

219

00:10:26,100 --> 00:10:24,130

feel about protecting the public and

220

00:10:29,009 --> 00:10:26,110

more about getting helping manufacturers

221

00:10:30,660 --> 00:10:29,019

getting their products to market one of

222

00:10:33,470 --> 00:10:30,670

the ways they do this is by producing

223

00:10:36,509 --> 00:10:33,480

what are called monographs which are

224

00:10:38,819 --> 00:10:36,519

sort of outlines what you can say but

225

00:10:41,009 --> 00:10:38,829

your product and its indication dosing

226

00:10:43,410 --> 00:10:41,019

and and and the ingredients it contains

227

00:10:45,930 --> 00:10:43,420

and if you follow that kind of recipe

228

00:10:47,850 --> 00:10:45,940

then you'll get a much quicker approval

229

00:10:50,129 --> 00:10:47,860

of your product and one such monograph

230

00:10:52,530 --> 00:10:50,139

recently was one for traditional chinese

231

00:10:53,910 --> 00:10:52,540

medicine ingredients so traditional

232

00:10:55,829 --> 00:10:53,920

Chinese medicine is a whole system of

233

00:10:57,860 --> 00:10:55,839

medicine requiring you know diagnosis

234

00:11:00,420 --> 00:10:57,870

and very specific and sometimes odd

235

00:11:01,559 --> 00:11:00,430

methods for that diagnosis but one of

236

00:11:04,139 --> 00:11:01,569

the things that Health Canada regulates

237

00:11:06,150 --> 00:11:04,149

as the actual ingredients used by

238

00:11:08,579 --> 00:11:06,160

traditional Chinese practitioners and

239

00:11:10,769 --> 00:11:08,589

others like natural paths and sometimes

240

00:11:13,740 --> 00:11:10,779

chiropractors and herbalists and things

241

00:11:18,000 --> 00:11:13,750

like that and so we looked at this

242

00:11:19,680 --> 00:11:18,010

monograph and really took issue with it

243

00:11:23,040 --> 00:11:19,690

it has most of these monographs have

244

00:11:27,090 --> 00:11:23,050

about one maybe two ingredients or they

245

00:11:29,730 --> 00:11:27,100

have one one genus and several species

246

00:11:31,559 --> 00:11:29,740

of a plant much like let's say echinacea

247

00:11:32,910 --> 00:11:31,569

so there's three or four species of

248

00:11:35,220 --> 00:11:32,920

echinacea and they've got those all in

249

00:11:38,639 --> 00:11:35,230

one monograph this monograph had well

250

00:11:41,220 --> 00:11:38,649

over 400 ingredients on it are close to

251  
00:11:44,309 --> 00:11:41,230  
100 ingredients so it was a real kind of

252  
00:11:47,100 --> 00:11:44,319  
departure from their usual their usual

253  
00:11:49,319 --> 00:11:47,110  
approach so that was a red flag for us

254  
00:11:50,540 --> 00:11:49,329  
and we knew we had to comment absolutely

255  
00:11:53,220 --> 00:11:50,550  
and you know it's strange as you're

256  
00:11:55,769 --> 00:11:53,230  
telling me about this I can't help that

257  
00:11:58,400 --> 00:11:55,779  
think of our own therapeutics Goods

258  
00:12:01,139 --> 00:11:58,410  
Administration and in this country and

259  
00:12:02,170 --> 00:12:01,149  
you may be familiar with this I'm not

260  
00:12:06,790 --> 00:12:02,180  
sure we

261  
00:12:08,950 --> 00:12:06,800  
a system here where a supplement or a

262  
00:12:11,560 --> 00:12:08,960  
drug can either get what they call an

263  
00:12:13,930 --> 00:12:11,570

austere Australia are listing which

264

00:12:16,930 --> 00:12:13,940

stands for registered or an aust L which

265

00:12:19,840 --> 00:12:16,940

stands for listed aust are on a product

266

00:12:22,990 --> 00:12:19,850

means it's been thoroughly tested if a

267

00:12:26,350 --> 00:12:23,000

efficacy and demonstrated scientifically

268

00:12:29,470 --> 00:12:26,360

to work aust L listed only means that

269

00:12:31,780 --> 00:12:29,480

the company involved has simply said oh

270

00:12:33,220 --> 00:12:31,790

we do have the we do have the proof

271

00:12:34,990 --> 00:12:33,230

somewhere or it's been used

272

00:12:36,970 --> 00:12:35,000

traditionally so that's all it needs to

273

00:12:39,190 --> 00:12:36,980

be and as long as the ingredients are

274

00:12:40,780 --> 00:12:39,200

safe that they can market and of course

275

00:12:44,530 --> 00:12:40,790

they can market it with all sorts of

276

00:12:47,199 --> 00:12:44,540

interesting claims which ultimately or

277

00:12:49,540 --> 00:12:47,209

often they don't have to back up yeah we

278

00:12:52,389 --> 00:12:49,550

have a very similar process the it's

279

00:12:54,190 --> 00:12:52,399

sort of a hybrid process the the Health

280

00:12:57,430 --> 00:12:54,200

Canada does claim that everything it

281

00:13:01,540 --> 00:12:57,440

licenses has been tested for their

282

00:13:03,100 --> 00:13:01,550

efficacy safety and quality which is a

283

00:13:06,040 --> 00:13:03,110

bit misleading when it comes to things

284

00:13:07,870 --> 00:13:06,050

like homeopathy we did a report last

285

00:13:09,490 --> 00:13:07,880

year when actually we had a whole

286

00:13:12,570 --> 00:13:09,500

campaign last year called the stop no

287

00:13:14,820 --> 00:13:12,580

sodes campaign which concerns

288

00:13:18,100 --> 00:13:14,830

homeopathic medications that are given

289

00:13:20,260 --> 00:13:18,110

in some cases to as a preventive or

290

00:13:22,390 --> 00:13:20,270

emplacement of replacement of a vaccine

291

00:13:24,670 --> 00:13:22,400

which we head of course had a lot of

292

00:13:26,740 --> 00:13:24,680

issues with and these kind of products

293

00:13:30,670 --> 00:13:26,750

they have their own kind of homeopathic

294

00:13:32,110 --> 00:13:30,680

number it's not the same license number

295

00:13:34,870 --> 00:13:32,120

as you would get with a standard natural

296

00:13:37,660 --> 00:13:34,880

health product but they're still there

297

00:13:40,000 --> 00:13:37,670

still claiming Health Canada is that

298

00:13:43,180 --> 00:13:40,010

they these products have been assessed

299

00:13:45,760 --> 00:13:43,190

for equality a safety and an efficacy

300

00:13:47,740 --> 00:13:45,770

which in the case of these no's oats I

301  
00:13:51,190 --> 00:13:47,750  
mean the only thing they had to supply

302  
00:13:53,800 --> 00:13:51,200  
as far as proof of efficacy was a Liske

303  
00:13:55,390 --> 00:13:53,810  
listing in a in the American

304  
00:13:58,000 --> 00:13:55,400  
pharmacopoeia which basically is a one

305  
00:14:00,699 --> 00:13:58,010  
paragraph maybe 50 word sentence saying

306  
00:14:03,010 --> 00:14:00,709  
this is used traditionally for this and

307  
00:14:06,519 --> 00:14:03,020  
that's it and then you know that's just

308  
00:14:09,280 --> 00:14:06,529  
a ridiculous have animals evidence it is

309  
00:14:10,510 --> 00:14:09,290  
it's it's interesting I mean I guess you

310  
00:14:12,550 --> 00:14:10,520  
and I have been at this sort of thing

311  
00:14:15,070 --> 00:14:12,560  
long enough to know that if something

312  
00:14:18,310 --> 00:14:15,080  
that is homeopathic is claiming

313  
00:14:20,620 --> 00:14:18,320

it has a thick placebo hind it or it

314

00:14:23,470 --> 00:14:20,630

really works then our default position

315

00:14:25,000 --> 00:14:23,480

is no it doesn't yeah exactly there is

316

00:14:27,730 --> 00:14:25,010

no evidence but despite that Health

317

00:14:30,220 --> 00:14:27,740

Canada still you know proves these items

318

00:14:31,660 --> 00:14:30,230

and the TCM items I mean this this

319

00:14:33,310 --> 00:14:31,670

current monograph caught our eye not

320

00:14:35,650 --> 00:14:33,320

only because the actual number of items

321

00:14:41,470 --> 00:14:35,660

on it but there was actually a lack of

322

00:14:44,050 --> 00:14:41,480

quite serious or concerning ingredients

323

00:14:45,730 --> 00:14:44,060

that were not on this list we have

324

00:14:47,740 --> 00:14:45,740

because there were so many of course we

325

00:14:49,690 --> 00:14:47,750

couldn't do a full review and in fact I

326

00:14:50,830 --> 00:14:49,700

mean the public shouldn't be responsible

327

00:14:52,180 --> 00:14:50,840

for doing a risk review of these

328

00:14:53,650 --> 00:14:52,190

products we should be looking to Health

329

00:14:55,300 --> 00:14:53,660

Canada to do these kind of risky views

330

00:14:56,800 --> 00:14:55,310

and what was quite evident when we

331

00:14:59,080 --> 00:14:56,810

looked at all these ingredients was that

332

00:15:01,210 --> 00:14:59,090

even we I mean we took the approach that

333

00:15:02,530 --> 00:15:01,220

well if anything is going to be toxic

334

00:15:03,610 --> 00:15:02,540

it's probably going to be toxic to your

335

00:15:06,940 --> 00:15:03,620

liver this got probably going to be

336

00:15:09,790 --> 00:15:06,950

evidence of that at least if that exists

337

00:15:10,720 --> 00:15:09,800

in the literature and when we we did

338

00:15:12,880 --> 00:15:10,730

look at the literature there were a

339

00:15:15,400 --> 00:15:12,890

number of ingredients probably 30 or 40

340

00:15:19,000 --> 00:15:15,410

degrees we found that had noted risks

341

00:15:20,950 --> 00:15:19,010

for liver toxicity specifically I mean

342

00:15:23,500 --> 00:15:20,960

that evidence check was done by one of

343

00:15:26,260 --> 00:15:23,510

our committee members who have actually

344

00:15:28,300 --> 00:15:26,270

used to work for that Health Canada

345

00:15:30,490 --> 00:15:28,310

Department he's now an adjunct

346

00:15:32,920 --> 00:15:30,500

professors name's Brian Foster at the

347

00:15:33,970 --> 00:15:32,930

University of Ottawa and he it just took

348

00:15:35,620 --> 00:15:33,980

him a couple days to find this

349

00:15:37,270 --> 00:15:35,630

information so who knows what else

350

00:15:39,040 --> 00:15:37,280

exists out there as far as risk

351  
00:15:41,200 --> 00:15:39,050  
information and this of course was not

352  
00:15:42,850 --> 00:15:41,210  
published with the monograph you know oh

353  
00:15:44,680 --> 00:15:42,860  
I can only guess what Health Canada did

354  
00:15:46,210 --> 00:15:44,690  
is to look at the risks when we found

355  
00:15:49,660 --> 00:15:46,220  
all these products that were on

356  
00:15:52,330 --> 00:15:49,670  
basically the approved list or the

357  
00:15:54,610 --> 00:15:52,340  
streamlining list it really raised red

358  
00:15:55,960 --> 00:15:54,620  
flags and we we really you know want to

359  
00:15:57,370 --> 00:15:55,970  
bring this to their attention so we had

360  
00:16:01,270 --> 00:15:57,380  
to sort drop of we were doing and and

361  
00:16:04,270 --> 00:16:01,280  
focus on this this kind of report it's

362  
00:16:06,640 --> 00:16:04,280  
not the only thing that the traditional

363  
00:16:10,990 --> 00:16:06,650

chinese medicine ingredients have going

364

00:16:13,570 --> 00:16:11,000

for that namely liver toxicity they

365

00:16:16,950 --> 00:16:13,580

they're sort of well known for

366

00:16:20,680 --> 00:16:16,960

containing both adulterations meaning

367

00:16:23,110 --> 00:16:20,690

ingredients in the preparation that are

368

00:16:24,670 --> 00:16:23,120

not on the label many times it's

369

00:16:28,420 --> 00:16:24,680

actually a pharmaceutical grade product

370

00:16:28,900 --> 00:16:28,430

like male enhancement medications for

371

00:16:32,080 --> 00:16:28,910

example

372

00:16:33,790 --> 00:16:32,090

for rectal dysfunction they've been a

373

00:16:34,720 --> 00:16:33,800

number of cases where these traditional

374

00:16:37,900 --> 00:16:34,730

Chinese medicines have actually

375

00:16:40,450 --> 00:16:37,910

contained viagra or other

376

00:16:42,970 --> 00:16:40,460

pharmaceuticals so really course it

377

00:16:44,140 --> 00:16:42,980

would work right because of that and and

378

00:16:46,420 --> 00:16:44,150

those kind of adulterations are a

379

00:16:48,910 --> 00:16:46,430

serious issue some of these taking you

380

00:16:49,930 --> 00:16:48,920

know and I don't know if you what many

381

00:16:52,150 --> 00:16:49,940

of your listeners probably know this but

382

00:16:53,440 --> 00:16:52,160

if somebody is taking heart medication

383

00:16:55,540 --> 00:16:53,450

called nitrates they could have a very

384

00:16:57,070 --> 00:16:55,550

serious and life-threatening reaction if

385

00:16:58,750 --> 00:16:57,080

they're not if they're taking these

386

00:17:00,520 --> 00:16:58,760

other medications which they think are

387

00:17:02,560 --> 00:17:00,530

natural and actually contain viagra I

388

00:17:05,680 --> 00:17:02,570

mean the problem with herbal medications

389

00:17:10,210 --> 00:17:05,690

of course is that unless you are growing

390

00:17:13,110 --> 00:17:10,220

the herb yourself and harvesting it and

391

00:17:16,270 --> 00:17:13,120

processing it you have no idea what that

392

00:17:20,290 --> 00:17:16,280

crushed leaf dried sample that you ship

393

00:17:22,200 --> 00:17:20,300

in from China or from wherever is you've

394

00:17:24,580 --> 00:17:22,210

no idea whether that's the actual

395

00:17:26,440 --> 00:17:24,590

species of plant that you require or not

396

00:17:28,630 --> 00:17:26,450

you have to actually do quality testing

397

00:17:32,400 --> 00:17:28,640

and the problem is of course Health

398

00:17:35,650 --> 00:17:32,410

Canada doesn't mandate any mandatory

399

00:17:37,180 --> 00:17:35,660

quality control it's all voluntary who

400

00:17:41,530 --> 00:17:37,190

knows what's really in these medications

401  
00:17:43,900 --> 00:17:41,540  
no one is really doing the tests to find

402  
00:17:46,270 --> 00:17:43,910  
out if what's on the label is in the

403  
00:17:49,510 --> 00:17:46,280  
product that's frightening and it also

404  
00:17:52,180 --> 00:17:49,520  
reminds me of this I guess we could say

405  
00:17:54,160 --> 00:17:52,190  
the myth of its natural therefore it

406  
00:17:58,060 --> 00:17:54,170  
must be good if people think they're

407  
00:18:00,040 --> 00:17:58,070  
getting traditional Chinese medicine or

408  
00:18:01,990 --> 00:18:00,050  
traditional whatever Madison you know we

409  
00:18:04,090 --> 00:18:02,000  
would we can sort of cast our net a

410  
00:18:06,730 --> 00:18:04,100  
little wider here it's made from natural

411  
00:18:08,230 --> 00:18:06,740  
ingredients traditionally used in

412  
00:18:10,840 --> 00:18:08,240  
different parts of the world there's

413  
00:18:12,790 --> 00:18:10,850

this aura about them if I might use that

414

00:18:14,470 --> 00:18:12,800

word that there they must be okay

415

00:18:16,920 --> 00:18:14,480

because they're natural and they've been

416

00:18:20,230 --> 00:18:16,930

used for centuries and they're not

417

00:18:21,760 --> 00:18:20,240

artificially made in a laboratory it's

418

00:18:25,480 --> 00:18:21,770

quite interesting a lot of people still

419

00:18:28,000 --> 00:18:25,490

have that opinion I think absolutely it

420

00:18:31,180 --> 00:18:28,010

seems like Health Canada has taken that

421

00:18:33,040 --> 00:18:31,190

is sort of under written its policy by

422

00:18:35,500 --> 00:18:33,050

this fallacy that if it's natural it's

423

00:18:37,300 --> 00:18:35,510

good in the case of natural health

424

00:18:39,280 --> 00:18:37,310

products they do what's called a

425

00:18:42,620 --> 00:18:39,290

risk-based assessment and it's all based

426

00:18:45,740 --> 00:18:42,630

on your claim so if you make a claim

427

00:18:47,720 --> 00:18:45,750

like my product will cure cancer well

428

00:18:49,850 --> 00:18:47,730

that's a very high-risk claim right if

429

00:18:51,620 --> 00:18:49,860

you if that claim is wrong then they

430

00:18:54,440 --> 00:18:51,630

could it could seriously injure somebody

431

00:18:56,390 --> 00:18:54,450

so yes that kind of claim requires a

432

00:18:58,700 --> 00:18:56,400

very high level of evidence comparable

433

00:19:01,250 --> 00:18:58,710

with a pharmaceutical grade product but

434

00:19:03,470 --> 00:19:01,260

if you choose to make a lower risk claim

435

00:19:08,000 --> 00:19:03,480

like my product supports the immune

436

00:19:10,580 --> 00:19:08,010

system or supports GI health then that

437

00:19:12,530 --> 00:19:10,590

is considered a low-risk claim and the

438

00:19:16,100 --> 00:19:12,540

level of evidence seriously drops in

439

00:19:19,400 --> 00:19:16,110

fact if you make a very low risk general

440

00:19:22,700 --> 00:19:19,410

health claim one of the one of the types

441

00:19:24,680 --> 00:19:22,710

of evidence you can use is is expert

442

00:19:27,410 --> 00:19:24,690

opinion and that will be enough for

443

00:19:32,990 --> 00:19:27,420

Health Canada to approve the product it

444

00:19:35,600 --> 00:19:33,000

is it's it's just a backwards way of it

445

00:19:37,400 --> 00:19:35,610

mrs. this idea of efficacy right sort of

446

00:19:41,180 --> 00:19:37,410

assumes that because it's natural it's

447

00:19:43,100 --> 00:19:41,190

safe and as long as your claim is not

448

00:19:46,100 --> 00:19:43,110

claiming anything major then you can go

449

00:19:47,840 --> 00:19:46,110

ahead and sell it that that's amazing

450

00:19:49,970 --> 00:19:47,850

and I couldn't help but thinking when

451  
00:19:54,680 --> 00:19:49,980  
you were talking about these low risk

452  
00:19:57,050 --> 00:19:54,690  
products that probably the same in

453  
00:19:58,700 --> 00:19:57,060  
Canada these similar sort of things out

454  
00:20:01,280 --> 00:19:58,710  
here tend to use a lot of weasel words

455  
00:20:04,850 --> 00:20:01,290  
what we call weasel words or words that

456  
00:20:07,880 --> 00:20:04,860  
really don't have a good definition like

457  
00:20:12,320 --> 00:20:07,890  
zest this pill will give you more zest

458  
00:20:16,630 --> 00:20:12,330  
or improves your wellness right or has

459  
00:20:19,700 --> 00:20:16,640  
been used to improve your vitality

460  
00:20:22,280 --> 00:20:19,710  
vitality and and all these sort of the I

461  
00:20:23,990 --> 00:20:22,290  
guess weasel words do you have similar

462  
00:20:26,240 --> 00:20:24,000  
sort of things over there we do we

463  
00:20:28,220 --> 00:20:26,250

certainly have um you have to use

464

00:20:33,470 --> 00:20:28,230

language is very similar to the to the

465

00:20:35,120 --> 00:20:33,480

monograph language however there's two

466

00:20:37,640 --> 00:20:35,130

things that sort of set natural health

467

00:20:40,040 --> 00:20:37,650

products apart first of all we have a

468

00:20:43,190 --> 00:20:40,050

under our food and drug act we've got a

469

00:20:45,650 --> 00:20:43,200

what's called a schedule a which lists

470

00:20:51,550 --> 00:20:45,660

all of the medical conditions that you

471

00:20:56,330 --> 00:20:55,430

market for cures or treatment on these

472

00:20:57,799 --> 00:20:56,340

include

473

00:21:00,919 --> 00:20:57,809

serious medical conditions heart disease

474

00:21:04,460 --> 00:21:00,929

and cancer and things like that however

475

00:21:07,250 --> 00:21:04,470

about I don't know maybe six five years

476  
00:21:10,220 --> 00:21:07,260  
ago six years ago there was that was

477  
00:21:12,350 --> 00:21:10,230  
updated or amended so that if you were

478  
00:21:14,710 --> 00:21:12,360  
if you had a natural health product and

479  
00:21:17,269 --> 00:21:14,720  
you were marketing it for prevention

480  
00:21:20,419 --> 00:21:17,279  
then you could market it for these

481  
00:21:22,820 --> 00:21:20,429  
schedule a diseases so you can't say

482  
00:21:27,289 --> 00:21:22,830  
it's going to cure it but you can say it

483  
00:21:28,850 --> 00:21:27,299  
will help prevent our help support so

484  
00:21:31,519 --> 00:21:28,860  
that's one problem the other problem is

485  
00:21:33,560 --> 00:21:31,529  
that it's a pragmatic one is that Health

486  
00:21:38,060 --> 00:21:33,570  
Canada does not seem to have the

487  
00:21:40,730 --> 00:21:38,070  
resources to properly police these

488  
00:21:43,130 --> 00:21:40,740

regulations and so where we have a

489

00:21:45,350 --> 00:21:43,140

project underway right now at at that

490

00:21:50,120 --> 00:21:45,360

science watch which is trying to

491

00:21:53,659 --> 00:21:50,130

identify the marketing of homeopathic

492

00:21:55,899 --> 00:21:53,669

products that have a license but to see

493

00:22:00,940 --> 00:21:55,909

if the marketing materials by the

494

00:22:03,590 --> 00:22:00,950

distributor actually matches the allowed

495

00:22:05,450 --> 00:22:03,600

indication according to the license and

496

00:22:06,980 --> 00:22:05,460

now we have we're just in the middle of

497

00:22:08,090 --> 00:22:06,990

collecting all our data so we haven't

498

00:22:09,649 --> 00:22:08,100

done the analysis yet but our

499

00:22:12,799 --> 00:22:09,659

preliminary is like our pilot study

500

00:22:14,840 --> 00:22:12,809

showed even just a cursory look at these

501  
00:22:16,549 --> 00:22:14,850  
kind of websites is that people are

502  
00:22:18,950 --> 00:22:16,559  
completely disregarding the license

503  
00:22:21,560 --> 00:22:18,960  
procedure and as a as a distributor

504  
00:22:23,450 --> 00:22:21,570  
you're not held the same standard as an

505  
00:22:26,029 --> 00:22:23,460  
actual product manufacturer so the label

506  
00:22:28,340 --> 00:22:26,039  
might say to support gia health but a

507  
00:22:30,560 --> 00:22:28,350  
natural path in Saskatchewan or ontario

508  
00:22:34,430 --> 00:22:30,570  
can on their website sell this

509  
00:22:37,850 --> 00:22:34,440  
medication this this preparation and say

510  
00:22:40,730 --> 00:22:37,860  
that it can help cure your L sirs Wow

511  
00:22:43,130 --> 00:22:40,740  
for example and and and that is under

512  
00:22:45,620 --> 00:22:43,140  
the law under the regulations Health

513  
00:22:47,570 --> 00:22:45,630

Canada should be shutting that that kind

514

00:22:50,149 --> 00:22:47,580

of process down but it's obvious that

515

00:22:53,299 --> 00:22:50,159

people are acting with impunity they

516

00:22:57,110 --> 00:22:53,309

know that it's a it's a complaint based

517

00:22:58,460 --> 00:22:57,120

system and without you know alerting

518

00:23:01,039 --> 00:22:58,470

Health Canada to all these problems

519

00:23:03,200 --> 00:23:01,049

nobody's going after them and so we're

520

00:23:08,060 --> 00:23:03,210

trying to identify that kind of mismatch

521

00:23:09,890 --> 00:23:08,070

in the market and alert the the regular

522

00:23:12,500 --> 00:23:09,900

the regulatory arm or the

523

00:23:15,410 --> 00:23:12,510

the enforcement arm of Health Canada and

524

00:23:16,490 --> 00:23:15,420

try to get them to to wise up that you

525

00:23:17,480 --> 00:23:16,500

know realize that people are actually

526

00:23:19,670 --> 00:23:17,490

marketing these products in

527

00:23:22,250 --> 00:23:19,680

contravention it's quite it's quite

528

00:23:25,250 --> 00:23:22,260

amazing because the similarities between

529

00:23:27,200 --> 00:23:25,260

what the situation is in Canada or what

530

00:23:32,180 --> 00:23:27,210

the situation here in Australia are

531

00:23:34,070 --> 00:23:32,190

quite quite striking the TGA in this

532

00:23:35,720 --> 00:23:34,080

country I I think are in the same

533

00:23:40,220 --> 00:23:35,730

position they don't have the resources

534

00:23:43,610 --> 00:23:40,230

to police many of the things that they

535

00:23:45,650 --> 00:23:43,620

actually give their they're almost their

536

00:23:49,790 --> 00:23:45,660

stamp of approval to when they give them

537

00:23:52,700 --> 00:23:49,800

the austell the listing classification

538

00:23:54,530 --> 00:23:52,710

and it is up to people like The

539

00:24:00,080 --> 00:23:54,540

Skeptical community and other concerned

540

00:24:02,680 --> 00:24:00,090

people to spot when people are doing the

541

00:24:05,870 --> 00:24:02,690

wrong thing and claiming all sorts of

542

00:24:08,570 --> 00:24:05,880

things for these these pills and these

543

00:24:10,520 --> 00:24:08,580

potions and these mixtures so I it's a

544

00:24:14,000 --> 00:24:10,530

pity Canada and Australia or so far

545

00:24:15,350 --> 00:24:14,010

apart in one sense yes I always say

546

00:24:19,070 --> 00:24:15,360

especially when we want to go to the

547

00:24:21,650 --> 00:24:19,080

beach because I live in Toronto and the

548

00:24:26,200 --> 00:24:21,660

beach here is great but it's not Bondi

549

00:24:29,180 --> 00:24:26,210

but no you're absolutely right we have

550

00:24:30,950 --> 00:24:29,190

it's like it's sad we are aware consumer

551  
00:24:33,190 --> 00:24:30,960  
protection organization at our heart but

552  
00:24:38,030 --> 00:24:33,200  
that's why bad signs watch was was was

553  
00:24:39,890 --> 00:24:38,040  
really constituted and yeah and it

554  
00:24:42,700 --> 00:24:39,900  
became it's become the increasingly

555  
00:24:47,210 --> 00:24:42,710  
disheartening to see a regulatory

556  
00:24:49,550 --> 00:24:47,220  
structure that is really not funded and

557  
00:24:51,590 --> 00:24:49,560  
obviously not funded well enough to have

558  
00:24:55,040 --> 00:24:51,600  
the enforcement that we need and there's

559  
00:24:58,100 --> 00:24:55,050  
also a basic misunderstanding I think

560  
00:24:59,720 --> 00:24:58,110  
between end users or the end prescribers

561  
00:25:01,820 --> 00:24:59,730  
of these products that natural paths and

562  
00:25:05,900 --> 00:25:01,830  
the homeopaths and the herbalists and

563  
00:25:08,600 --> 00:25:05,910

chiropractors they they seem to think

564

00:25:11,810 --> 00:25:08,610

that if Health Canada approves it they

565

00:25:13,850 --> 00:25:11,820

have the permission to say whatever they

566

00:25:16,010 --> 00:25:13,860

want about the product now of course

567

00:25:17,120 --> 00:25:16,020

it's up to the regulatory colleges we do

568

00:25:18,950 --> 00:25:17,130

have regular we have a new regulatory

569

00:25:21,620 --> 00:25:18,960

college both natural paths and homey

570

00:25:23,250 --> 00:25:21,630

paths in Ontario it already exists in bc

571

00:25:26,880 --> 00:25:23,260

as well so this this kind of

572

00:25:31,110 --> 00:25:26,890

professionalization of of these kind of

573

00:25:33,720 --> 00:25:31,120

fringe alt med providers is occurring in

574

00:25:36,680 --> 00:25:33,730

Canada and they and then the colleges

575

00:25:39,410 --> 00:25:36,690

are responsible for protecting that that

576

00:25:42,030 --> 00:25:39,420

client patient or that patient provider

577

00:25:43,050 --> 00:25:42,040

relationship and making it safe so

578

00:25:44,880 --> 00:25:43,060

Health Canada I really can't say

579

00:25:47,760 --> 00:25:44,890

anything about that but was very

580

00:25:49,350 --> 00:25:47,770

striking one of the successful things we

581

00:25:51,570 --> 00:25:49,360

had with a no-sew campaign was that they

582

00:25:53,310 --> 00:25:51,580

had to put into the monograph for

583

00:25:55,770 --> 00:25:53,320

homeopathic no so is that these products

584

00:25:57,690 --> 00:25:55,780

are not intended as a replacement for

585

00:25:59,760 --> 00:25:57,700

vaccines and they should not be used as

586

00:26:02,580 --> 00:25:59,770

such it was a small there was a small

587

00:26:05,520 --> 00:26:02,590

victory for us but that that kind of

588

00:26:07,670 --> 00:26:05,530

language even though that was implied

589

00:26:12,690 --> 00:26:07,680

because there was no allowable

590

00:26:15,690 --> 00:26:12,700

indication previous to that change for

591

00:26:19,170 --> 00:26:15,700

the use of these products for as vaccine

592

00:26:22,560 --> 00:26:19,180

alternatives the providers thought that

593

00:26:25,170 --> 00:26:22,570

because it had a license of course it

594

00:26:29,030 --> 00:26:25,180

was it was then deemed effective right

595

00:26:31,710 --> 00:26:29,040

so by Wow by licensing these products

596

00:26:33,330 --> 00:26:31,720

and we and we saw this in the UK as well

597

00:26:37,770 --> 00:26:33,340

as says see Health Canada proves that

598

00:26:40,050 --> 00:26:37,780

influent influenza 9 seen since its

599

00:26:43,620 --> 00:26:40,060

license it must be good at preventing

600

00:26:44,940 --> 00:26:43,630

the flu but that isn't and that is the

601  
00:26:46,620 --> 00:26:44,950  
misunderstanding that health care

602  
00:26:49,740 --> 00:26:46,630  
doesn't realize that what they're doing

603  
00:26:51,450 --> 00:26:49,750  
by insisting that they've they've tested

604  
00:26:54,090 --> 00:26:51,460  
these things for efficacy risk and high

605  
00:26:55,320 --> 00:26:54,100  
and high quality or efficacy safety in

606  
00:26:56,640 --> 00:26:55,330  
high quality is that they are giving

607  
00:26:59,280 --> 00:26:56,650  
these people license to make whatever

608  
00:27:00,990 --> 00:26:59,290  
claim they want and to sort of validate

609  
00:27:02,780 --> 00:27:01,000  
their position that these products

610  
00:27:05,850 --> 00:27:02,790  
actually work when in fact they don't

611  
00:27:09,450 --> 00:27:05,860  
and I think that Health Canada doesn't

612  
00:27:10,800 --> 00:27:09,460  
doesn't realize that and we've been told

613  
00:27:12,390 --> 00:27:10,810

to the grapevine that they don't really

614

00:27:14,280 --> 00:27:12,400

like us very much for bringing this

615

00:27:15,630 --> 00:27:14,290

stuff out and I'm not surprised right

616

00:27:18,240 --> 00:27:15,640

like who wants to be told they're wrong

617

00:27:21,930 --> 00:27:18,250

every step of the way yeah yeah that

618

00:27:24,360 --> 00:27:21,940

well nobody nobody I mean you and I know

619

00:27:28,440 --> 00:27:24,370

who on the planet likes to be told

620

00:27:30,420 --> 00:27:28,450

they're wrong often I mean once or twice

621

00:27:31,890 --> 00:27:30,430

to help you but if you're told

622

00:27:33,840 --> 00:27:31,900

continuously that you're doing something

623

00:27:36,300 --> 00:27:33,850

wrong yeah you can get quite annoyed

624

00:27:37,470 --> 00:27:36,310

about that but it's good to know it's

625

00:27:40,180 --> 00:27:37,480

good to know my

626

00:27:42,730 --> 00:27:40,190

you're out there you're out there with

627

00:27:44,409 --> 00:27:42,740

bad signs watch annoying people like

628

00:27:46,360 --> 00:27:44,419

Health Canada how many people are

629

00:27:47,919 --> 00:27:46,370

involved with bad science right well

630

00:27:50,620 --> 00:27:47,929

we've got a print when T and 30

631

00:27:52,360 --> 00:27:50,630

volunteers off and on I mean our current

632

00:27:55,360 --> 00:27:52,370

we've got to project committees working

633

00:27:58,749 --> 00:27:55,370

currently and that's about what 12

634

00:28:00,759 --> 00:27:58,759

people we have about full five members

635

00:28:04,450 --> 00:28:00,769

of the board and I think a total of

636

00:28:08,169 --> 00:28:04,460

eight or nine total members membership

637

00:28:10,269 --> 00:28:08,179

is by invitation to sort of for people

638

00:28:12,090 --> 00:28:10,279

who are strong you know supporters and

639

00:28:14,950 --> 00:28:12,100

long-term supporters of the organization

640

00:28:17,110 --> 00:28:14,960

and so there's about 20 or 30 people so

641

00:28:19,990 --> 00:28:17,120

far we've got a lot of support we think

642

00:28:22,330 --> 00:28:20,000

in the community you know lots of

643

00:28:24,340 --> 00:28:22,340

followers on Twitter and we get to get a

644

00:28:26,470 --> 00:28:24,350

lot of traffic that way so we're

645

00:28:29,440 --> 00:28:26,480

building we're slowly building you know

646

00:28:31,210 --> 00:28:29,450

the organization up certainly our next

647

00:28:32,619 --> 00:28:31,220

kind of effort is to is to start to

648

00:28:34,149 --> 00:28:32,629

raise more money so we can have a paid

649

00:28:36,430 --> 00:28:34,159

executive I mean it'd be great one of

650

00:28:38,409 --> 00:28:36,440

the one of the problems with we're a web

651  
00:28:39,940 --> 00:28:38,419  
based organization we have no bricks and

652  
00:28:43,720 --> 00:28:39,950  
mortar building right this is all sort

653  
00:28:45,460 --> 00:28:43,730  
of virtual activism as it were and so

654  
00:28:47,680 --> 00:28:45,470  
are you know the idea is to grow the

655  
00:28:49,350 --> 00:28:47,690  
organization raise some money hire an

656  
00:28:53,169 --> 00:28:49,360  
executive hiring executive director and

657  
00:28:56,019 --> 00:28:53,179  
get an office in Ottawa which is the our

658  
00:28:58,180 --> 00:28:56,029  
nation's capital where the legislature

659  
00:29:00,759 --> 00:28:58,190  
sets our Parliament since I should say

660  
00:29:02,889 --> 00:29:00,769  
and and to have that kind of access not

661  
00:29:05,830 --> 00:29:02,899  
only to the politicians but to the media

662  
00:29:08,830 --> 00:29:05,840  
so we're you know slowly we're trying to

663  
00:29:11,039 --> 00:29:08,840

you know stake our claim and and grow

664

00:29:13,480 --> 00:29:11,049

the organization will be certainly

665

00:29:15,700 --> 00:29:13,490

putting hat in hand and looking for

666

00:29:18,940 --> 00:29:15,710

donations very soon it sort of raise

667

00:29:22,899 --> 00:29:18,950

that kind of serious money so so we can

668

00:29:25,629 --> 00:29:22,909

have a voice and and and defend science

669

00:29:27,430 --> 00:29:25,639

and in public policy in Canada it sounds

670

00:29:29,889 --> 00:29:27,440

like a good idea to me folks if you want

671

00:29:37,029 --> 00:29:29,899

to find out more about bad science watch

672

00:29:38,830 --> 00:29:37,039

visit WWDC a if you want to follow bad

673

00:29:41,289 --> 00:29:38,840

science watch on twitter you can do that

674

00:29:44,440 --> 00:29:41,299

at bad science watch you even have a

675

00:29:47,879 --> 00:29:44,450

facebook page and people can go to the

676  
00:29:50,510 --> 00:29:47,889  
web page and sign up to the newsletter

677  
00:29:52,280 --> 00:29:50,520  
absolutely we'd love to hear from here

678  
00:29:54,110 --> 00:29:52,290  
and that's exactly how I get my

679  
00:29:56,450 --> 00:29:54,120  
information from bad science watch too

680  
00:29:58,670 --> 00:29:56,460  
well Michael crews thank you very much I

681  
00:30:01,270 --> 00:29:58,680  
know you've been awake all night just

682  
00:30:03,650 --> 00:30:01,280  
waiting to talk to the skeptic zone yes

683  
00:30:06,560 --> 00:30:03,660  
it's oddly enough i've been awake all

684  
00:30:08,600 --> 00:30:06,570  
day just waiting to talk to you and so

685  
00:30:10,640 --> 00:30:08,610  
Michael all the way over there in

686  
00:30:11,750 --> 00:30:10,650  
Toronto thanks very much you're very

687  
00:30:14,990 --> 00:30:11,760  
welcome back too quick to talk to you

688  
00:30:16,640 --> 00:30:15,000

again the Canadian public has been

689

00:30:18,620 --> 00:30:16,650

poorly served by a government which

690

00:30:22,100 --> 00:30:18,630

displays little respect for objectivity

691

00:30:23,600 --> 00:30:22,110

and science Canadians are taken

692

00:30:25,910 --> 00:30:23,610

advantage of through weak consumer

693

00:30:27,980 --> 00:30:25,920

protection regulations that allow the

694

00:30:30,680 --> 00:30:27,990

sale of products and services that don't

695

00:30:32,090 --> 00:30:30,690

work and our media is all too willing to

696

00:30:34,130 --> 00:30:32,100

report dubious claims without

697

00:30:38,150 --> 00:30:34,140

examination if it will attract readers

698

00:30:40,430 --> 00:30:38,160

and sell advertising individual freedom

699

00:30:42,410 --> 00:30:40,440

of choice is being jeopardized as the

700

00:30:45,500 --> 00:30:42,420

unscrupulous or misinformed attempt to

701  
00:30:49,130 --> 00:30:45,510  
influence our important decisions it's

702  
00:30:51,500 --> 00:30:49,140  
time for a change bad science watches a

703  
00:30:53,930 --> 00:30:51,510  
new activist organization that will

704  
00:30:55,850 --> 00:30:53,940  
challenge the media advertisers and

705  
00:30:57,320 --> 00:30:55,860  
politicians when they promote unsound

706  
00:30:59,130 --> 00:30:57,330  
signs that can threaten the well-being

707  
00:31:01,770 --> 00:30:59,140  
of Canadians

708  
00:31:04,680 --> 00:31:01,780  
we will provide analysis of dubious

709  
00:31:07,230 --> 00:31:04,690  
scientific claims to unit our government

710  
00:31:08,790 --> 00:31:07,240  
and the media can campaign for policy

711  
00:31:12,630 --> 00:31:08,800  
decisions based on the best evidence

712  
00:31:14,880 --> 00:31:12,640  
available we will take action to

713  
00:31:16,470 --> 00:31:14,890

pressure politicians to enforce and

714

00:31:19,140 --> 00:31:16,480

strengthen consumer protection

715

00:31:22,470 --> 00:31:19,150

regulation we will stand against the

716

00:31:25,950 --> 00:31:22,480

exploitation of you and your family by

717

00:31:28,620 --> 00:31:25,960

the peddlers of bad science you can help

718

00:31:31,440 --> 00:31:28,630

us donate our pledge to support our

719

00:31:33,270 --> 00:31:31,450

campaigns and research efforts join our

720

00:31:36,900 --> 00:31:33,280

mailing list to receive action alerts

721

00:31:40,260 --> 00:31:36,910

and help effect real change tell your

722

00:31:44,900 --> 00:31:40,270

friends about us find out more at bat

723

00:32:04,340 --> 00:31:44,910

science watch see a bad science watch

724

00:32:08,460 --> 00:32:06,840

hey this is jay novella from the

725

00:32:10,380 --> 00:32:08,470

skeptics guide to the universe podcast

726

00:32:12,240 --> 00:32:10,390

did you know that there are thousands of

727

00:32:13,950 --> 00:32:12,250

skeptical reports interviews and

728

00:32:16,680 --> 00:32:13,960

investigations going back to nineteen

729

00:32:20,549 --> 00:32:16,690

eighty one free to download just visit w

730

00:32:22,260 --> 00:32:20,559

WC a pet co a you click the publications

731

00:32:24,000 --> 00:32:22,270

link and enjoy almost every back issue

732

00:32:25,769 --> 00:32:24,010

of the skeptic the journal from

733

00:32:27,330 --> 00:32:25,779

australian skeptics you can also

734

00:32:29,610 --> 00:32:27,340

subscribe online and get the latest

735

00:32:31,620 --> 00:32:29,620

digital or hard copy of this the world's

736

00:32:35,310 --> 00:32:31,630

second oldest skeptical magazine that's

737

00:32:49,610 --> 00:32:35,320

ww skeptics com a you or just google

738

00:32:55,430 --> 00:32:51,920

from the pages of the skeptic magazine

739

00:32:59,030 --> 00:32:55,440

at www skeptics calm today you we bring

740

00:33:04,280 --> 00:32:59,040

you your stars for april 2014 with our

741

00:33:06,470 --> 00:33:04,290

astrologer dr. do fe calf capricorn your

742

00:33:09,290 --> 00:33:06,480

love of animals extends to the kitchen

743

00:33:11,420 --> 00:33:09,300

where you love to cook them do you know

744

00:33:14,750 --> 00:33:11,430

that animals have their own star signs

745

00:33:17,480 --> 00:33:14,760

to imagine a ram born under the sign of

746

00:33:20,720 --> 00:33:17,490

a fish or a bull born under the sign of

747

00:33:23,180 --> 00:33:20,730

a goat talk about confused animals still

748

00:33:26,830 --> 00:33:23,190

I'm sure they would taste good you're

749

00:33:29,330 --> 00:33:26,840

lucky rabbit has all its feet Aquarius

750

00:33:32,510 --> 00:33:29,340

remember the advice your mother gave you

751

00:33:34,910 --> 00:33:32,520

about reading strange horoscopes well

752

00:33:38,450 --> 00:33:34,920

it's all true but thanks for reading

753

00:33:42,290 --> 00:33:38,460

this one anyway now let me see Pluto is

754

00:33:44,919 --> 00:33:42,300

entering the fourth region of the what

755

00:33:48,530 --> 00:33:44,929

what's that Pluto is no longer a planet

756

00:33:50,600 --> 00:33:48,540

what do you mean all those thousands of

757

00:33:53,600 --> 00:33:50,610

horoscopes that use Pluto as a planet

758

00:33:56,840 --> 00:33:53,610

and our null and void and I did not

759

00:33:59,930 --> 00:33:56,850

predict Pisces even though you are

760

00:34:03,260 --> 00:33:59,940

really trying your best other people of

761

00:34:05,690 --> 00:34:03,270

your star sign have voted you off please

762

00:34:07,580 --> 00:34:05,700

apply to another star sign on maybe try

763

00:34:10,669 --> 00:34:07,590

another planet with the different star

764

00:34:13,310 --> 00:34:10,679

signs but yet make up your own star sign

765

00:34:15,619 --> 00:34:13,320

invite others to join and start to write

766

00:34:20,869 --> 00:34:15,629

a horoscope for them you're lucky song

767

00:34:23,990 --> 00:34:20,879

is I'm a loser Aries I see in your stars

768

00:34:27,350 --> 00:34:24,000

you picking up your phone and darling my

769

00:34:31,700 --> 00:34:27,360

five dollars 99 permanent Tarot hotline

770

00:34:33,980 --> 00:34:31,710

yes the cards can tell you all in fact

771

00:34:36,649 --> 00:34:33,990

your cards are telling me to dial my

772

00:34:39,290 --> 00:34:36,659

seven dollar 99 per minute psychic

773

00:34:41,990 --> 00:34:39,300

reading hotline the amazing thing is I

774

00:34:44,119 --> 00:34:42,000

see the psychic predictions have you

775

00:34:46,940 --> 00:34:44,129

darling my nine dollars 99 per minute

776

00:34:50,990 --> 00:34:46,950

astrology hotline in which you were told

777

00:34:55,550 --> 00:34:51,000

to dial my \$13 99 permanent thing shui

778

00:34:57,200 --> 00:34:55,560

hotline why stop there Taurus this is a

779

00:34:58,660 --> 00:34:57,210

good month for counting the days until

780

00:35:00,849 --> 00:34:58,670

next month

781

00:35:03,520 --> 00:35:00,859

if you count more than 31 you're doing

782

00:35:05,950 --> 00:35:03,530

something very wrong since you gave up

783

00:35:08,230 --> 00:35:05,960

drinking you're lucky bodily organ is

784

00:35:11,650 --> 00:35:08,240

your liver you're unlucky business owner

785

00:35:13,930 --> 00:35:11,660

is your local publican Gemini forget

786

00:35:15,549 --> 00:35:13,940

trying to remember all those things you

787

00:35:19,299 --> 00:35:15,559

forgot about last time you read your

788

00:35:21,640 --> 00:35:19,309

horoscope if you are driving a car stop

789

00:35:24,579 --> 00:35:21,650

reading this immediately not your lucky

790

00:35:29,309 --> 00:35:24,589

numbers and the Stars forecast this

791

00:35:36,910 --> 00:35:29,319

month that your lucky numbers are 747

792

00:35:39,430 --> 00:35:36,920

767 787 and a 380 hmm the Stars see a

793

00:35:41,950 --> 00:35:39,440

lot of air travel in your future cancer

794

00:35:43,870 --> 00:35:41,960

kissing a frog will not turn it into a

795

00:35:46,690 --> 00:35:43,880

prince but i'm sure the frog won't care

796

00:35:49,150 --> 00:35:46,700

but you might have a new best friend you

797

00:35:51,549 --> 00:35:49,160

could try kissing a snake I wonder what

798

00:35:54,039 --> 00:35:51,559

that would turn into now the Stars

799

00:35:57,370 --> 00:35:54,049

recommend you stick to humans and super

800

00:36:02,170 --> 00:35:57,380

glue is just the thing for that Leo the

801  
00:36:05,170 --> 00:36:02,180  
quote nastradamus in the year 2000 + 14

802  
00:36:08,020 --> 00:36:05,180  
the great doctor eeka will cast a

803  
00:36:12,280 --> 00:36:08,030  
horoscope those in the Southern land

804  
00:36:15,940 --> 00:36:12,290  
will send him money blood will flow in

805  
00:36:18,520 --> 00:36:15,950  
the blood bank there you are you'll see

806  
00:36:21,309 --> 00:36:18,530  
that Nostradamus is never wrong well

807  
00:36:23,950 --> 00:36:21,319  
maybe sometimes but not this time you're

808  
00:36:25,560 --> 00:36:23,960  
lucky blood type is your own how lucky

809  
00:36:29,160 --> 00:36:25,570  
is that

810  
00:36:30,990 --> 00:36:29,170  
virgo Mars rules your life this month

811  
00:36:33,570 --> 00:36:31,000  
which is why you keep running to the

812  
00:36:36,540 --> 00:36:33,580  
service station to buy some more imagine

813  
00:36:38,490 --> 00:36:36,550

if there was a planet called KitKat as

814

00:36:41,120 --> 00:36:38,500

for myself I was born under the sign of

815

00:36:46,590 --> 00:36:41,130

the roast duck which explains a lot

816

00:36:50,400 --> 00:36:46,600

you're lucky year will be 2093 as you'll

817

00:36:52,830 --> 00:36:50,410

be lucky to ever see it libera people

818

00:36:54,630 --> 00:36:52,840

born under your sign our true skeptics

819

00:36:56,760 --> 00:36:54,640

and never read horoscopes which means

820

00:36:59,310 --> 00:36:56,770

you must have been born under a

821

00:37:02,940 --> 00:36:59,320

different sign I think it's time you had

822

00:37:05,670 --> 00:37:02,950

a word to your mother Scorpio at times

823

00:37:07,290 --> 00:37:05,680

you wished you lived in the past if you

824

00:37:09,210 --> 00:37:07,300

find yourself there you could make a

825

00:37:11,730 --> 00:37:09,220

fortune predicting the future which

826  
00:37:14,670 --> 00:37:11,740  
would be the past view but the pastures

827  
00:37:16,890 --> 00:37:14,680  
you look into the future as you already

828  
00:37:21,390 --> 00:37:16,900  
know what the past has installed in the

829  
00:37:23,720 --> 00:37:21,400  
future date so there you go if you make

830  
00:37:27,300 --> 00:37:23,730  
it back to the future you'll be rich

831  
00:37:29,520 --> 00:37:27,310  
Arthur UKISS don't let negative people

832  
00:37:31,200 --> 00:37:29,530  
get you down it's much better if it's

833  
00:37:32,790 --> 00:37:31,210  
positive people getting you down as they

834  
00:37:36,060 --> 00:37:32,800  
always make you feel good about it

835  
00:37:39,090 --> 00:37:36,070  
somehow Sagittarius the stars are

836  
00:37:41,040 --> 00:37:39,100  
unclear for you at the moment well I'll

837  
00:37:43,650 --> 00:37:41,050  
come clean about this I have writer's

838  
00:37:45,810 --> 00:37:43,660

block the hell were the stars they don't

839

00:37:47,610 --> 00:37:45,820

help at all I mean really i'm supposed

840

00:37:50,160 --> 00:37:47,620

to get your predictions from points of

841

00:37:53,130 --> 00:37:50,170

lights in the sky still it beats working

842

00:38:14,190 --> 00:37:53,140

for a living my lucky numbers are those

843

00:38:18,430 --> 00:38:16,539

astronomy cast who takes a fact space

844

00:38:20,319 --> 00:38:18,440

journey through the cosmos as it offers

845

00:38:22,990 --> 00:38:20,329

listeners weekly discussions on

846

00:38:25,900 --> 00:38:23,000

astronomical topics ranging from planets

847

00:38:28,359 --> 00:38:25,910

to cosmology hosted by Fraser Cain of

848

00:38:29,230 --> 00:38:28,369

Universe Today and myself dr. Pamela gay

849

00:38:31,900 --> 00:38:29,240

of southern illinois university

850

00:38:33,760 --> 00:38:31,910

edwardsville this show brings the

851  
00:38:36,190 --> 00:38:33,770  
questions of an avid astronomy lover

852  
00:38:38,289 --> 00:38:36,200  
directly to an astronomer together

853  
00:38:39,819 --> 00:38:38,299  
Fraser and I explore what is known and

854  
00:38:42,579 --> 00:38:39,829  
being discovered about the universe

855  
00:38:44,680 --> 00:38:42,589  
around us join us each week as we take a

856  
00:38:54,190 --> 00:38:44,690  
fast space journey through the cosmos at

857  
00:38:56,380 --> 00:38:54,200  
astronomy cast calm welcome to a week in

858  
00:38:58,780 --> 00:38:56,390  
science from arias bringing you the

859  
00:39:00,640 --> 00:38:58,790  
science you need to know it's hard to

860  
00:39:02,980 --> 00:39:00,650  
beat the crisp refreshing taste of an

861  
00:39:05,260 --> 00:39:02,990  
ice-cold beer but behind the amber haze

862  
00:39:10,570 --> 00:39:05,270  
and frothing fears beer is also

863  
00:39:15,410 --> 00:39:13,640

we first discovered beer about 8,000

864

00:39:17,960 --> 00:39:15,420

years ago in ancient egypt and ancient

865

00:39:20,210 --> 00:39:17,970

sumer the world's first brewers mixed

866

00:39:22,910 --> 00:39:20,220

bread germinated grain and water in

867

00:39:24,320 --> 00:39:22,920

ceramic jars the yeast inside the bread

868

00:39:28,700 --> 00:39:24,330

fermented the sugars in the grain

869

00:39:30,740 --> 00:39:28,710

producing alcohol and tada beer almost

870

00:39:33,080 --> 00:39:30,750

everyone drank it at the time as it was

871

00:39:34,610 --> 00:39:33,090

high in carbohydrates in protein but was

872

00:39:36,530 --> 00:39:34,620

also safer to drink than the

873

00:39:40,400 --> 00:39:36,540

contaminated water making it the

874

00:39:42,530 --> 00:39:40,410

ultimate food source today there are

875

00:39:44,360 --> 00:39:42,540

thousands of brands of beer and dozens

876

00:39:46,820 --> 00:39:44,370

of different styles but there are really

877

00:39:48,800 --> 00:39:46,830

only two main types of beer ales and

878

00:39:50,990 --> 00:39:48,810

lagers the difference of rising from the

879

00:39:52,640 --> 00:39:51,000

type of yeast used ao's use a top

880

00:39:54,560 --> 00:39:52,650

fermenting yeast which operates at a

881

00:39:56,840 --> 00:39:54,570

higher temperature this means that

882

00:39:59,120 --> 00:39:56,850

fermentation produces not only alcohol

883

00:40:01,040 --> 00:39:59,130

but various other aroma molecules that

884

00:40:03,470 --> 00:40:01,050

give rise to fruity and floral flavors

885

00:40:05,270 --> 00:40:03,480

lagers on the other hand use bottom

886

00:40:07,280 --> 00:40:05,280

fermenting yeast which operates at a

887

00:40:09,170 --> 00:40:07,290

lower temperature this means that no

888

00:40:11,270 --> 00:40:09,180

extra aroma molecules are produced

889

00:40:14,390 --> 00:40:11,280

making the beer a crisp and clear

890

00:40:15,680 --> 00:40:14,400

expression of the grain and now for fast

891

00:40:19,310 --> 00:40:15,690

facts about australia's favourite

892

00:40:21,560 --> 00:40:19,320

beverage ancient Greeks and Romans

893

00:40:23,840 --> 00:40:21,570

didn't really appreciate the beauty of

894

00:40:26,300 --> 00:40:23,850

beer they thought was most useful to

895

00:40:28,340 --> 00:40:26,310

soften ivory to make jewelry beer is a

896

00:40:30,770 --> 00:40:28,350

diuretic that causes us to lose fluids

897

00:40:33,260 --> 00:40:30,780

very quickly every bottle of beer you

898

00:40:36,500 --> 00:40:33,270

drink produces about half a liter of

899

00:40:38,360 --> 00:40:36,510

urine per standard drink beer contains

900

00:40:40,460 --> 00:40:38,370

more vitamins and minerals than wine and

901  
00:40:42,230 --> 00:40:40,470  
ancient Egyptians thought that drinking

902  
00:40:44,690 --> 00:40:42,240  
beer and getting drunked help them

903  
00:40:46,760 --> 00:40:44,700  
become closer with the gods that's it

904  
00:40:48,920 --> 00:40:46,770  
for this week in science for more

905  
00:40:53,360 --> 00:40:48,930  
information on beer go to the RAS

906  
00:40:55,730 --> 00:40:53,370  
website riasa us a you follow us on

907  
00:40:57,950 --> 00:40:55,740  
twitter at rars and like us on Facebook

908  
00:41:01,920 --> 00:40:57,960  
I'm na be young and we'll catch you next

909  
00:41:06,520 --> 00:41:04,720  
virtual skeptics is a weekly web show in

910  
00:41:08,829 --> 00:41:06,530  
which we discuss the latest news in

911  
00:41:10,299 --> 00:41:08,839  
skepticism whether it's a new case of

912  
00:41:12,520 --> 00:41:10,309  
spontaneous human combustion a

913  
00:41:14,740 --> 00:41:12,530

conspiracy theory the latest update on

914

00:41:16,390 --> 00:41:14,750

the upcoming robot apocalypse tech news

915

00:41:18,880 --> 00:41:16,400

for skeptics are the latest wacky

916

00:41:21,280 --> 00:41:18,890

religious claim we cover it all we

917

00:41:23,920 --> 00:41:21,290

record the show live as a Google+ on-air

918

00:41:25,750 --> 00:41:23,930

hang out so join us and our host Brian

919

00:41:27,849 --> 00:41:25,760

Gregory for an hour of mostly

920

00:41:30,760 --> 00:41:27,859

intelligent talk every wednesday at

921

00:41:33,790 --> 00:41:30,770

eight pm eastern US time watch us at

922

00:41:36,430 --> 00:41:33,800

virtual skeptics calm and participate in

923

00:41:39,370 --> 00:41:36,440

the show on our hashtag virtual skeptics

924

00:41:50,500 --> 00:41:39,380

the virtual skeptics it's like meet the

925

00:41:52,450 --> 00:41:50,510

press but with chupacabras well here i

926  
00:41:53,920 --> 00:41:52,460  
am at skeptics in the pub in sydney but

927  
00:41:56,589 --> 00:41:53,930  
you know what folks this is not the only

928  
00:41:59,559 --> 00:41:56,599  
skeptical event in sydney add to do with

929  
00:42:02,339 --> 00:41:59,569  
drinking where's my where's my dinner no

930  
00:42:05,200 --> 00:42:02,349  
no it's not here yet who do we have here

931  
00:42:08,140 --> 00:42:05,210  
Jane welcome hello Jane you're telling

932  
00:42:09,789 --> 00:42:08,150  
me about critical drinking how critical

933  
00:42:12,099 --> 00:42:09,799  
drinking is just an informal meet up in

934  
00:42:14,950 --> 00:42:12,109  
Newtown which we've been running I think

935  
00:42:19,059 --> 00:42:14,960  
we had at our inaugural event Oh last

936  
00:42:22,450 --> 00:42:19,069  
month and it's just a an informal meet

937  
00:42:25,480 --> 00:42:22,460  
up for people to get together and have a

938  
00:42:26,859 --> 00:42:25,490

good argument under fair terms you don't

939

00:42:28,480 --> 00:42:26,869

need you don't need a they don't need a

940

00:42:30,910 --> 00:42:28,490

special excuse for people have a good

941

00:42:33,599 --> 00:42:30,920

argument these days Adobe tell me more

942

00:42:36,400 --> 00:42:33,609

about it where do you meet and win ah

943

00:42:38,890 --> 00:42:36,410

where a Facebook meetup groups so we

944

00:42:41,770 --> 00:42:38,900

tend to roam around a bit but if you

945

00:42:43,030 --> 00:42:41,780

don't have a certain pub no no we roam

946

00:42:45,700 --> 00:42:43,040

around Keynes street it's all done by

947

00:42:49,030 --> 00:42:45,710

consensus so if you joined the group

948

00:42:50,980 --> 00:42:49,040

reaches either put up a vote or discuss

949

00:42:52,930 --> 00:42:50,990

there's a lot of good pubs around King

950

00:42:54,620 --> 00:42:52,940

Street i must say that hang up and dump

951  
00:42:58,039 --> 00:42:54,630  
it I'm pick one it's

952  
00:42:59,509 --> 00:42:58,049  
man hello fern hi you can't just pick

953  
00:43:01,039 --> 00:42:59,519  
one pub on King Street that's why

954  
00:43:02,539 --> 00:43:01,049  
there's that's why we move around

955  
00:43:05,990 --> 00:43:02,549  
because everyone wants to go to a

956  
00:43:08,089 --> 00:43:06,000  
different pub every month I just did the

957  
00:43:11,509 --> 00:43:08,099  
cardinal sin folks I nearly spilled your

958  
00:43:13,609 --> 00:43:11,519  
drink I'm sorry you saved it if people

959  
00:43:15,259 --> 00:43:13,619  
around the the newtown area the inner

960  
00:43:18,410 --> 00:43:15,269  
west of Sydney which is not far from

961  
00:43:19,609 --> 00:43:18,420  
where I live what's what's the deal

962  
00:43:21,890 --> 00:43:19,619  
where should they go to find out more

963  
00:43:23,650 --> 00:43:21,900

about critically drinking adds a

964

00:43:26,359 --> 00:43:23,660

facebook meet up at the moment we all

965

00:43:27,890 --> 00:43:26,369

we're thinking about putting our proper

966

00:43:29,839 --> 00:43:27,900

meet up meet up up but at the moment

967

00:43:31,819 --> 00:43:29,849

it's a Facebook group if it works

968

00:43:35,240 --> 00:43:31,829

drinkin Sydney research for us you'll

969

00:43:36,799 --> 00:43:35,250

find us critical drinkers Sydney I see

970

00:43:38,509 --> 00:43:36,809

so that doesn't mean you go somewhere

971

00:43:42,950 --> 00:43:38,519

and taste beers and think could be

972

00:43:46,339 --> 00:43:42,960

better no no we do that actually we do a

973

00:43:47,839 --> 00:43:46,349

bit of that we were kind of i'm sure a

974

00:43:49,549 --> 00:43:47,849

lot of skeptics have this problem but we

975

00:43:52,970 --> 00:43:49,559

had an issue with using the word

976  
00:43:54,769 --> 00:43:52,980  
skeptics trying to get people to come to

977  
00:43:56,660 --> 00:43:54,779  
it who are quite a student in science

978  
00:43:59,420 --> 00:43:56,670  
but obviously that it's the word has

979  
00:44:02,420 --> 00:43:59,430  
become a prefix for climate Holocaust or

980  
00:44:04,430 --> 00:44:02,430  
vaccine remote recently isn't this a sad

981  
00:44:05,870 --> 00:44:04,440  
situation you know it's a situation that

982  
00:44:07,519 --> 00:44:05,880  
we and Australian skeptics have been

983  
00:44:09,049 --> 00:44:07,529  
dealing with for many years because pot

984  
00:44:11,870 --> 00:44:09,059  
in the popular imagination the word

985  
00:44:14,480 --> 00:44:11,880  
skeptic means they say or a demand yeah

986  
00:44:16,430 --> 00:44:14,490  
and we know that no it really someone

987  
00:44:19,970 --> 00:44:16,440  
who carefully carefully evaluate so

988  
00:44:22,880 --> 00:44:19,980

evidence critical is good although it

989

00:44:26,779 --> 00:44:22,890

sounds a bit critical what are the

990

00:44:29,450 --> 00:44:26,789

drinkers and I think I think you give

991

00:44:31,309 --> 00:44:29,460

them you've come up with a good question

992

00:44:33,230 --> 00:44:31,319

for tonight what is another term which

993

00:44:35,930 --> 00:44:33,240

would might be more appealing than

994

00:44:37,249 --> 00:44:35,940

skeptic uh well we don't have the

995

00:44:39,769 --> 00:44:37,259

answers we're going with critical

996

00:44:41,900 --> 00:44:39,779

drinkers but yeah you have you've come

997

00:44:44,599 --> 00:44:41,910

up with something at least yeah yeah we

998

00:44:46,339 --> 00:44:44,609

just kind of felt that we had to come up

999

00:44:48,950 --> 00:44:46,349

with something that the really the

1000

00:44:51,740 --> 00:44:48,960

catalyst was the vaccine skeptics we

1001  
00:44:53,599 --> 00:44:51,750  
thought we that's just I think for me

1002  
00:44:56,150 --> 00:44:53,609  
when I hope you give up at that point I

1003  
00:44:58,220 --> 00:44:56,160  
think well when I heard people saying a

1004  
00:45:00,109 --> 00:44:58,230  
retirement chain skip bo even before

1005  
00:45:01,940 --> 00:45:00,119  
then the moon landing skeptics no it's

1006  
00:45:04,260 --> 00:45:01,950  
just hit desking ringing up radio

1007  
00:45:07,470 --> 00:45:04,270  
stations and say what's not us you

1008  
00:45:09,150 --> 00:45:07,480  
no I mean where it's a small informal

1009  
00:45:11,310 --> 00:45:09,160  
group that's just started so we don't

1010  
00:45:12,780 --> 00:45:11,320  
have your rebranding issues with just we

1011  
00:45:14,220 --> 00:45:12,790  
can just randomly change our name we're

1012  
00:45:16,890 --> 00:45:14,230  
basically a group of people that meet at

1013  
00:45:18,450 --> 00:45:16,900

the pub so all the freedom folks the

1014

00:45:20,370 --> 00:45:18,460

freedoms it will I'm glad you've

1015

00:45:21,690 --> 00:45:20,380

randomly decided to come to skeptics in

1016

00:45:23,040 --> 00:45:21,700

the pub tonight it looks like it's gonna

1017

00:45:24,180 --> 00:45:23,050

be or they're setting up the screen as

1018

00:45:26,780 --> 00:45:24,190

we speak it looks like it's going to be

1019

00:45:31,320 --> 00:45:26,790

an interesting talk all about mosquitoes

1020

00:45:32,550 --> 00:45:31,330

I'm looking forward to it I'm I've got a

1021

00:45:36,360 --> 00:45:32,560

bit of a side bet that there's going to

1022

00:45:38,190 --> 00:45:36,370

be a Gary Larson cartoon in there you

1023

00:45:40,260 --> 00:45:38,200

might you might be on a good on a winner

1024

00:45:42,240 --> 00:45:40,270

then you might be on a winner well

1025

00:45:44,550 --> 00:45:42,250

thanks ladies for letting us know about

1026  
00:45:46,410 --> 00:45:44,560  
critically drinking and it sounds like

1027  
00:45:49,020 --> 00:45:46,420  
something I might even pop along to do

1028  
00:45:55,500 --> 00:45:49,030  
have only for research reasons of course

1029  
00:45:59,109 --> 00:45:55,510  
strictly for research the poor things

1030  
00:46:03,039 --> 00:46:01,660  
toward the record we can have Kenley

1031  
00:46:04,779 --> 00:46:03,049  
lather as you mentioned earlier go

1032  
00:46:06,609 --> 00:46:04,789  
around here sounds of the Australian pub

1033  
00:46:09,819 --> 00:46:06,619  
ladies and gentlemen greyhound racing on

1034  
00:46:12,370 --> 00:46:09,829  
the television it still skeptics in the

1035  
00:46:14,289 --> 00:46:12,380  
pub him down I'm afraid my voices run

1036  
00:46:16,720 --> 00:46:14,299  
away with the Greyhounds at the moment

1037  
00:46:18,670 --> 00:46:16,730  
the sound of this happens at these have

1038  
00:46:21,279 --> 00:46:18,680

been some with Joe alabaster hello Joe

1039

00:46:23,230 --> 00:46:21,289

hello Richard how are you today well I'm

1040

00:46:26,170 --> 00:46:23,240

I'm apart from my voice running away

1041

00:46:28,059 --> 00:46:26,180

with me Hans I'm doing okay ah thank you

1042

00:46:30,220 --> 00:46:28,069

very much for all your help lately with

1043

00:46:33,279 --> 00:46:30,230

the skeptic zone now you you've

1044

00:46:35,910 --> 00:46:33,289

catalyzed virtually every episode of the

1045

00:46:38,950 --> 00:46:35,920

skeptic zone you must have been a

1046

00:46:41,680 --> 00:46:38,960

terrible experience pretty highly

1047

00:46:43,960 --> 00:46:41,690

traumatic guess it was actually quite

1048

00:46:45,880 --> 00:46:43,970

interesting I could sort of see a few

1049

00:46:48,190 --> 00:46:45,890

trends developing who was doing guest

1050

00:46:50,829 --> 00:46:48,200

segments what sort of interviews were

1051

00:46:52,269 --> 00:46:50,839

being done I was yeah I think you

1052

00:46:53,470 --> 00:46:52,279

mentioned to me when you're cataloging

1053

00:46:55,809 --> 00:46:53,480

all the episodes you could see when

1054

00:46:58,870 --> 00:46:55,819

Maynard was a guest and then before long

1055

00:47:01,720 --> 00:46:58,880

he started disease he's a interviews and

1056

00:47:03,940 --> 00:47:01,730

reports yeah pretty much yeah very solid

1057

00:47:06,400 --> 00:47:03,950

appearances after an initial couple of

1058

00:47:08,620 --> 00:47:06,410

interviews you've definitely around it's

1059

00:47:10,479 --> 00:47:08,630

the main odd face oh so lucky we are to

1060

00:47:13,239 --> 00:47:10,489

have him to now here's tonight's

1061

00:47:17,380 --> 00:47:13,249

question which is uh I was asking

1062

00:47:20,229 --> 00:47:17,390

earlier before my voice run away is the

1063

00:47:21,880 --> 00:47:20,239

word skeptic the word skeptic it's got

1064

00:47:23,620 --> 00:47:21,890

lots of baggage I'll eat up so you

1065

00:47:25,870 --> 00:47:23,630

don't think of climate change skeptics

1066

00:47:28,210 --> 00:47:25,880

or moon landing skeptics vaccination

1067

00:47:30,249 --> 00:47:28,220

skeptics indeed do you think do you

1068

00:47:33,029 --> 00:47:30,259

think that is a very negative negative

1069

00:47:37,059 --> 00:47:33,039

thing for us is it hard to fight us I

1070

00:47:38,739 --> 00:47:37,069

think it can be but something I found

1071

00:47:41,739 --> 00:47:38,749

actually when I was on my way home from

1072

00:47:44,229 --> 00:47:41,749

the skeptics dinner last weekend I was

1073

00:47:46,420 --> 00:47:44,239

chatting to a taxi driver who was asking

1074

00:47:49,450 --> 00:47:46,430

how my night had been worried being etc

1075

00:47:51,549 --> 00:47:49,460

and I mentioned that I'd been to an

1076

00:47:53,589 --> 00:47:51,559

Australian skeptics dinner and he said

1077

00:47:55,210 --> 00:47:53,599

what sort of skeptics what do you deal

1078

00:47:58,059 --> 00:47:55,220

with um you know do you deal with

1079

00:47:59,710 --> 00:47:58,069

conspiracy theories is that yeah that's

1080

00:48:02,920 --> 00:47:59,720

one of the things that we talk about of

1081

00:48:05,349 --> 00:48:02,930

you know generally looking at it with

1082

00:48:08,010 --> 00:48:05,359

the sceptical iron generally debunking

1083

00:48:10,220 --> 00:48:08,020

these things rather than believing in

1084

00:48:12,570 --> 00:48:10,230

led to actually a decent conversation

1085

00:48:15,030 --> 00:48:12,580

ended up talking about sort of

1086

00:48:17,730 --> 00:48:15,040

scientific skepticism as far as the

1087

00:48:21,450 --> 00:48:17,740

medical field and you know what was

1088

00:48:25,130 --> 00:48:21,460

evidence base what wasn't so what I do

1089

00:48:29,420 --> 00:48:25,140

get somewhat frustrated seeing's people

1090

00:48:32,130 --> 00:48:29,430

take the name skeptic herbs I'm not sure

1091

00:48:34,190 --> 00:48:32,140

necessarily our scientific skeptics it

1092

00:48:36,960 --> 00:48:34,200

does lead to some decent discussions

1093

00:48:40,560 --> 00:48:36,970

it's an interesting angle that's an

1094

00:48:42,840 --> 00:48:40,570

interesting angle because i guess i can

1095

00:48:45,480 --> 00:48:42,850

i can identify that when you say you're

1096

00:48:47,190 --> 00:48:45,490

a skeptic I've had some more

1097

00:48:49,980 --> 00:48:47,200

conversations where people completely

1098

00:48:52,410 --> 00:48:49,990

don't get it even after you explained it

1099

00:48:56,250 --> 00:48:52,420

to me explain it to the man and i

1100

00:48:59,010 --> 00:48:56,260

recently had a conversation woman who

1101  
00:49:02,160 --> 00:48:59,020  
was emptying I've been apparently what's

1102  
00:49:03,570 --> 00:49:02,170  
going on over there sooo when I said

1103  
00:49:06,570 --> 00:49:03,580  
there are skeptical convention she

1104  
00:49:08,550 --> 00:49:06,580  
looked absolutely gobsmacked Tintin what

1105  
00:49:10,200 --> 00:49:08,560  
do you do on a skeptics convention to

1106  
00:49:13,020 --> 00:49:10,210  
sit around saying I don't believe in

1107  
00:49:14,870 --> 00:49:13,030  
stock still that perception up yeah I've

1108  
00:49:17,790 --> 00:49:14,880  
had a little bit of that actually um

1109  
00:49:21,030 --> 00:49:17,800  
from a friend that I was speaking to he

1110  
00:49:22,470 --> 00:49:21,040  
was under the impression that basically

1111  
00:49:26,370 --> 00:49:22,480  
we got together we did a whole lot of

1112  
00:49:29,040 --> 00:49:26,380  
groupthink it was analogous almost to a

1113  
00:49:31,560 --> 00:49:29,050

religion or a church service where we

1114

00:49:34,260 --> 00:49:31,570

all agree a firm with each other thing

1115

00:49:37,350 --> 00:49:34,270

and panicked other on the back and I

1116

00:49:40,650 --> 00:49:37,360

wasn't actually able to explain to him

1117

00:49:43,020 --> 00:49:40,660

um well some of the disagreements that

1118

00:49:47,160 --> 00:49:43,030

happy people yeah particularly the last

1119

00:49:49,830 --> 00:49:47,170

convention vet yeah um cuz we do this er

1120

00:49:52,980 --> 00:49:49,840

yes of course and that is valuable I

1121

00:49:54,570 --> 00:49:52,990

think yeah I know that well thank you

1122

00:49:56,940 --> 00:49:54,580

for your insights Joe that's okay

1123

00:50:00,210 --> 00:49:56,950

anytime next time I have a big project

1124

00:50:06,810 --> 00:50:00,220

like cataloguing the entire skeptics

1125

00:50:09,870 --> 00:50:06,820

oh yuneisia fantastic thank you it's the

1126

00:50:12,570 --> 00:50:09,880

trots it's the the harness racing on the

1127

00:50:15,180 --> 00:50:12,580

TV now what an interesting pub this is

1128

00:50:16,560 --> 00:50:15,190

hello hello Richard hello good to see

1129

00:50:19,050 --> 00:50:16,570

you here tonight now you're down from

1130

00:50:21,180 --> 00:50:19,060

the mountains yes I live in Katoomba not

1131

00:50:24,150 --> 00:50:21,190

far from joe alabaster me not far at all

1132

00:50:25,500 --> 00:50:24,160

you are here tonight to enjoy skeptics

1133

00:50:28,080 --> 00:50:25,510

in the pub of course but also you were

1134

00:50:29,849 --> 00:50:28,090

telling us about a new group new ish no

1135

00:50:32,430 --> 00:50:29,859

not new at all actually we've existed

1136

00:50:35,030 --> 00:50:32,440

for at least 10 years I think you are

1137

00:50:37,109 --> 00:50:35,040

here to tell you about an old group yeah

1138

00:50:39,990 --> 00:50:37,119

tell me about this group don't tell the

1139

00:50:41,370 --> 00:50:40,000

listeners do oh hello and the group I

1140

00:50:43,980 --> 00:50:41,380

want to tell you about is the blackheath

1141

00:50:46,170 --> 00:50:43,990

philosophy forum which is of course held

1142

00:50:49,260 --> 00:50:46,180

in Blackheath which is just a little bit

1143

00:50:51,450 --> 00:50:49,270

west of katoomba where's timeline on the

1144

00:50:54,240 --> 00:50:51,460

train a lot of venue is across the road

1145

00:50:57,060 --> 00:50:54,250

from the train station so it's pretty

1146

00:50:58,560 --> 00:50:57,070

easy to get there the first talk is on

1147

00:51:00,839 --> 00:50:58,570

the 19th of April that's Easter Saturday

1148

00:51:02,910 --> 00:51:00,849

and it they all the talks start at four

1149

00:51:05,910 --> 00:51:02,920

o'clock and they'll go on fortnightly

1150

00:51:08,370 --> 00:51:05,920

until early august when our last walk is

1151

00:51:10,020 --> 00:51:08,380

actually a talk that we're doing in

1152

00:51:12,300 --> 00:51:10,030

conjunction with the blackheath history

1153

00:51:14,849 --> 00:51:12,310

forum which they run their talks after

1154

00:51:17,190 --> 00:51:14,859

we run out so there's a sort of late

1155

00:51:19,620 --> 00:51:17,200

winter and as a early winter it's a

1156

00:51:21,780 --> 00:51:19,630

fantastic fantastic group of speakers

1157

00:51:24,570 --> 00:51:21,790

and topics we've got lined up for this

1158

00:51:28,050 --> 00:51:24,580

year and checks out we're on we have a

1159

00:51:29,370 --> 00:51:28,060

website we're also on Facebook um do do

1160

00:51:31,200 --> 00:51:29,380

join in the discussion on Facebook

1161

00:51:32,910 --> 00:51:31,210

that'll be fun so you have a website and

1162

00:51:35,760 --> 00:51:32,920

the Facebook yes what's the website

1163

00:51:40,290 --> 00:51:35,770

what's your own dinner she's just full

1164

00:51:42,120 --> 00:51:40,300

on I i I'm such a facebook addict and

1165

00:51:43,740 --> 00:51:42,130

and I do moderate the facebook page so I

1166

00:51:46,170 --> 00:51:43,750

don't worry I'm pretty stuck in there

1167

00:51:48,870 --> 00:51:46,180

and so if I go to Facebook word war type

1168

00:51:50,970 --> 00:51:48,880

in Blackheath philosophy for him yeah

1169

00:51:53,790 --> 00:51:50,980

right that's pretty easy blackheath

1170

00:51:56,640 --> 00:51:53,800

philosophy forum sounds like a good

1171

00:51:58,220 --> 00:51:56,650

event to go to excuse my voice it always

1172

00:52:00,050 --> 00:51:58,230

lose it at these pop 19

1173

00:52:04,010 --> 00:52:00,060

is the r you know the rumor they're so

1174

00:52:09,230 --> 00:52:04,020

loud now the discussion tonight is the

1175

00:52:11,720 --> 00:52:09,240

word skeptic the term skeptic it can we

1176  
00:52:15,400 --> 00:52:11,730  
know what it means yes we know but to

1177  
00:52:18,260 --> 00:52:15,410  
the great unwashed public domainpublic

1178  
00:52:21,530 --> 00:52:18,270  
it has all sorts of meanings many people

1179  
00:52:23,720 --> 00:52:21,540  
think it means cynicism I do they do

1180  
00:52:26,840 --> 00:52:23,730  
could we do better in marketing or could

1181  
00:52:28,520 --> 00:52:26,850  
we do better in word or of that the moon

1182  
00:52:30,109 --> 00:52:28,530  
landing skeptics and the climate change

1183  
00:52:33,170 --> 00:52:30,119  
skeptics and the skeptical skeptics of

1184  
00:52:36,880 --> 00:52:33,180  
the skeptics of the skeptics sumter some

1185  
00:52:40,340 --> 00:52:36,890  
we have we let our guard down what is he

1186  
00:52:41,750 --> 00:52:40,350  
I'm not sure how we can better define

1187  
00:52:44,510 --> 00:52:41,760  
the word or if we could use a different

1188  
00:52:48,470 --> 00:52:44,520

word but I want to bring it back to my

1189

00:52:50,420 --> 00:52:48,480

connection to the philosophy forum to

1190

00:52:52,790 --> 00:52:50,430

say that that then the reason that I

1191

00:52:54,170 --> 00:52:52,800

that I wanted to tell the skeptic zone

1192

00:52:55,820 --> 00:52:54,180

listeners about the philosophy form is I

1193

00:52:58,370 --> 00:52:55,830

think the two things are so well

1194

00:53:01,580 --> 00:52:58,380

intertwined and that skepticism is

1195

00:53:03,680 --> 00:53:01,590

actually philosophical activism hmm so

1196

00:53:05,359 --> 00:53:03,690

it's it's it's taking philosophical

1197

00:53:08,410 --> 00:53:05,369

principles of critical thinking and

1198

00:53:10,730 --> 00:53:08,420

applying them to real world things we're

1199

00:53:14,630 --> 00:53:10,740

all skeptics if you try to help people

1200

00:53:17,480 --> 00:53:14,640

they try to they try to debunk you know

1201  
00:53:21,349 --> 00:53:17,490  
they share medical cures for example and

1202  
00:53:24,260 --> 00:53:21,359  
that uses philosophical tools right are

1203  
00:53:28,880 --> 00:53:24,270  
that we we to be honest we'd probably

1204  
00:53:32,510 --> 00:53:28,890  
prefer the term investigate her journey

1205  
00:53:35,390 --> 00:53:32,520  
I know Joe we do end up yes and do end

1206  
00:53:39,080 --> 00:53:35,400  
up strangely enough debunking many

1207  
00:53:40,700 --> 00:53:39,090  
things as we go along yes um but there's

1208  
00:53:42,590 --> 00:53:40,710  
the discussion for another time yes

1209  
00:53:46,880 --> 00:53:42,600  
perhaps we shouldn't we should presume

1210  
00:53:48,740 --> 00:53:46,890  
the answer in the best so what do you

1211  
00:53:50,630 --> 00:53:48,750  
think of our speech our speaker tonight

1212  
00:53:53,450 --> 00:53:50,640  
was all about mosquito oh it's fantastic

1213  
00:53:55,940 --> 00:53:53,460

what's it look good and yes I did leave

1214

00:53:57,530 --> 00:53:55,950

it feeling a bit itchy I've always

1215

00:53:59,120 --> 00:53:57,540

wanted by mosquitoes like me more than

1216

00:54:01,160 --> 00:53:59,130

they like my partner my partner loves

1217

00:54:03,290 --> 00:54:01,170

that they like me more because they keep

1218

00:54:04,790 --> 00:54:03,300

away from his note but we didn't get an

1219

00:54:06,720 --> 00:54:04,800

answer tonight she he said well there

1220

00:54:08,430 --> 00:54:06,730

are three four hundred chemicals that

1221

00:54:10,620 --> 00:54:08,440

and make up what's on our skin and we

1222

00:54:12,090 --> 00:54:10,630

just can't tell why don't we feel more

1223

00:54:14,820 --> 00:54:12,100

attracted but what I found interesting

1224

00:54:16,109 --> 00:54:14,830

was he confirmed that yes mosquitoes do

1225

00:54:18,120 --> 00:54:16,119

find some people who were attractive

1226

00:54:21,030 --> 00:54:18,130

than others I always thought that was an

1227

00:54:22,950 --> 00:54:21,040

old me oh okay I know it's not because I

1228

00:54:26,370 --> 00:54:22,960

come out with 20 bucks and my partner

1229

00:54:27,450 --> 00:54:26,380

has none it's completely advent it's

1230

00:54:29,940 --> 00:54:27,460

just the sort of things you can learn

1231

00:54:48,940 --> 00:54:29,950

skeptics in the pub I recommend it

1232

00:54:54,020 --> 00:54:51,860

thank you for listening to the skeptic

1233

00:54:56,510 --> 00:54:54,030

zone podcast and thank you for those

1234

00:54:59,240 --> 00:54:56,520

people who contribute less than a dollar

1235

00:55:04,340 --> 00:54:59,250

a week of course via paypal and you can

1236

00:55:06,560 --> 00:55:04,350

do that at ww skeptic zone TV very much

1237

00:55:08,270 --> 00:55:06,570

looking forward to the skeptical events

1238

00:55:10,310 --> 00:55:08,280

coming up later in the year tam of

1239

00:55:12,320 --> 00:55:10,320

course the amazing meeting in Las Vegas

1240

00:55:14,450 --> 00:55:12,330

well I'll be great to see James Randi

1241

00:55:16,070 --> 00:55:14,460

haven't seen James Randi for almost a

1242

00:55:19,190 --> 00:55:16,080

year it's really nice to catch up with

1243

00:55:21,440 --> 00:55:19,200

him and we are normally find a few

1244

00:55:25,250 --> 00:55:21,450

minutes to have a quiet chat it's really

1245

00:55:28,880 --> 00:55:25,260

great and later in the year indeed the

1246

00:55:30,650 --> 00:55:28,890

28th to the 30th of November in Sydney

1247

00:55:32,870 --> 00:55:30,660

we have the Australian skeptics national

1248

00:55:35,510 --> 00:55:32,880

convention with the skeptics guide to

1249

00:55:38,240 --> 00:55:35,520

the universe george arab dick smith dr.

1250

00:55:40,130 --> 00:55:38,250

carlos and risky dr. rachel dunlop will

1251  
00:55:43,330 --> 00:55:40,140  
be speaking in so many more i can't even

1252  
00:55:47,330 --> 00:55:43,340  
talk about it get your tickets at ww

1253  
00:55:50,930 --> 00:55:47,340  
skeptics calm a you prostate cancer

1254  
00:55:55,220 --> 00:55:50,940  
indeed and homeopathy I'm sorry yes

1255  
00:55:57,220 --> 00:55:55,230  
still still not happy about that hmm but

1256  
00:56:01,100 --> 00:55:57,230  
for this week this is Richard Saunders

1257  
00:56:03,710 --> 00:56:01,110  
signing off I mean how dare you mention

1258  
00:56:05,840 --> 00:56:03,720  
prostate cancer in regards to sugar

1259  
00:56:12,530 --> 00:56:05,850  
water and this is Richard Saunders

1260  
00:56:15,920 --> 00:56:12,540  
signing off from Sydney Australia you've

1261  
00:56:20,510 --> 00:56:15,930  
been listening to the skeptic zone visit

1262  
00:56:23,000 --> 00:56:20,520  
our website at www skeptics on TV the