

Episode **595**

THE
**SKEPTIC
ZONE**
PODCAST

www.skepticzone.tv

8 March 2020

Surf Coast Summer
Skepticamp VIII

Maynard at Skeptics' Dinner Part #1
Dr Michael Mann
Tim Mendham

Logical Fallacies
with Michelle Bijkersma
"Appeal to Popularity"

The Raw Skeptic Report
Heidi Robertson talks to
Dr Sue Page
Coronavirus Update

The Skeptic Zone Podcast
Episode 595 - 8 March 2020

Skepticamp 2020



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Michelle Bijkersma



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Dr Sue Page AM

The Skeptic Zone Podcast
Episode 595 - 8 March 2020



1
00:00:11,860 --> 00:00:09,120
welcome to the skeptic zone the podcast

2
00:00:13,920 --> 00:00:11,870
from Australia for science and reason

3
00:00:16,860 --> 00:00:13,930
[Music]

4
00:00:23,200 --> 00:00:16,870
[Applause]

5
00:00:25,880 --> 00:00:23,210
[Music]

6
00:00:30,350 --> 00:00:25,890
yes it's the skeptic zone podcast

7
00:00:31,550 --> 00:00:30,360
episode number 595 for the 8th of March

8
00:00:37,220 --> 00:00:31,560
2020

9
00:00:39,830 --> 00:00:37,230
know Richard Saunders coming to you this

10
00:00:45,680 --> 00:00:39,840
week from Sydney Australia a bit wet but

11
00:00:48,049 --> 00:00:45,690
drizzly a few showers at the moment so I

12
00:00:50,510 --> 00:00:48,059
better stay indoors coming up on this

13
00:00:54,620 --> 00:00:50,520

week's show a report from surf coast

14

00:00:57,410 --> 00:00:54,630

summer skeptic camp 8 in Ali's Inlet

15

00:00:58,490 --> 00:00:57,420

Victoria which I attended last week you

16

00:01:01,430 --> 00:00:58,500

would have heard a little bit about that

17

00:01:04,160 --> 00:01:01,440

on the last show this week a full report

18

00:01:07,249 --> 00:01:04,170

about the fun of the day including

19

00:01:10,700 --> 00:01:07,259

including a test of the premium wine

20

00:01:12,620 --> 00:01:10,710

cart now this little device about the

21

00:01:18,609 --> 00:01:12,630

size of a credit card made out of metal

22

00:01:23,810 --> 00:01:18,619

is claimed to improve the taste of wine

23

00:01:26,570 --> 00:01:23,820

how how by rubbing the card on the

24

00:01:29,360 --> 00:01:26,580

outside of the wine glass that's if the

25

00:01:31,730 --> 00:01:29,370

wine has already been poured if the wine

26
00:01:34,070 --> 00:01:31,740
has not been poured you simply hold the

27
00:01:37,130 --> 00:01:34,080
wine card on the outside of the glass as

28
00:01:39,560 --> 00:01:37,140
you're pouring the wine in sounds too

29
00:01:42,350 --> 00:01:39,570
good to be true we put it to the test

30
00:01:45,320 --> 00:01:42,360
well we have a fun test of the premium

31
00:01:47,960 --> 00:01:45,330
wine card can i chat to my good friend

32
00:01:51,080 --> 00:01:47,970
steve roberts and one of the organizers

33
00:01:53,539 --> 00:01:51,090
Don Hyde following that it's Maenads

34
00:01:54,890 --> 00:01:53,549
spooky action this week may not reports

35
00:01:56,539 --> 00:01:54,900
from the Australian skeptics dinner

36
00:01:59,719 --> 00:01:56,549
meeting here in New South Wales in

37
00:02:02,679 --> 00:01:59,729
Sydney where he interviews dr. Michael

38
00:02:05,480 --> 00:02:02,689

Mann now dr. Mann is a climatologist and

39

00:02:07,190 --> 00:02:05,490

geophysicist and currently the director

40

00:02:09,919 --> 00:02:07,200

of the Earth Science Center at

41

00:02:11,780 --> 00:02:09,929

Pennsylvania State University and he

42

00:02:14,960 --> 00:02:11,790

came along to give a talk about their

43

00:02:17,750 --> 00:02:14,970

well climate change a very interesting

44

00:02:20,000 --> 00:02:17,760

interview with dr. Mann and a chat with

45

00:02:22,160 --> 00:02:20,010

Tim Mendham a variant in Mendham who was

46

00:02:24,920 --> 00:02:22,170

there on the night and it's good to see

47

00:02:26,949 --> 00:02:24,930

Tim up and about after his recent bout

48

00:02:30,530 --> 00:02:26,959

of appendicitis

49

00:02:32,600 --> 00:02:30,540

and I'm looking forward to more book of

50

00:02:34,760 --> 00:02:32,610

Tim Tims gonna be doing some more

51

00:02:37,670 --> 00:02:34,770

recording soon now this is

52

00:02:40,760 --> 00:02:37,680

one this is part one and next week on

53

00:02:43,820 --> 00:02:40,770

part two may not chat to the one and

54

00:02:47,320 --> 00:02:43,830

only dick Smith one of the founders of

55

00:02:50,210 --> 00:02:47,330

Australian skeptics the next segment is

56

00:02:51,980 --> 00:02:50,220

logical fallacies our new continuing

57

00:02:54,230 --> 00:02:51,990

segment with Michelle because MA

58

00:02:57,440 --> 00:02:54,240

this week Michelle looks at the appeal

59

00:02:59,750 --> 00:02:57,450

the popularity and I think this segment

60

00:03:01,760 --> 00:02:59,760

is becoming very popular indeed and

61

00:03:03,860 --> 00:03:01,770

around off the show it's the raw skeptic

62

00:03:07,700 --> 00:03:03,870

report with Haile Robinson and what a

63

00:03:10,400 --> 00:03:07,710

timely report it is Heidi interviews dr.

64

00:03:12,410 --> 00:03:10,410

sue page who is the past president of

65

00:03:14,180 --> 00:03:12,420

the rural doctors Association of

66

00:03:16,100 --> 00:03:14,190

Australia and current board member of

67

00:03:18,140 --> 00:03:16,110

the future health leaders and someone

68

00:03:20,980 --> 00:03:18,150

very knowledgeable in matters such as

69

00:03:24,320 --> 00:03:20,990

vaccinations and the current coronavirus

70

00:03:26,680 --> 00:03:24,330

situation dr. page gives Heidi some good

71

00:03:28,880 --> 00:03:26,690

advice about dealing with the current

72

00:03:30,860 --> 00:03:28,890

coronavirus what you should do what you

73

00:03:33,860 --> 00:03:30,870

shouldn't do what might happen what

74

00:03:36,770 --> 00:03:33,870

probably won't happen again a very

75

00:03:39,760 --> 00:03:36,780

timely update including some very good

76

00:03:44,570 --> 00:03:39,770

links that you should follow including

77

00:03:45,980 --> 00:03:44,580

including smart traveler dot gov dot a

78

00:03:48,320 --> 00:03:45,990

you this is the website by the

79

00:03:50,570 --> 00:03:48,330

Australian government for people wishing

80

00:03:52,430 --> 00:03:50,580

to travel overseas with all sorts of

81

00:03:54,980 --> 00:03:52,440

very good information and that's a site

82

00:03:56,480 --> 00:03:54,990

worth keeping your eye on and speaking

83

00:03:58,220 --> 00:03:56,490

of the coronavirus it came to my

84

00:04:02,990 --> 00:03:58,230

attention the other day that the people

85

00:04:05,960 --> 00:04:03,000

over at homeopathy plus have published

86

00:04:09,500 --> 00:04:05,970

an article more or less recommending a

87

00:04:12,590 --> 00:04:09,510

certain type of homeopathic magic to

88

00:04:14,810 --> 00:04:12,600

help fight a corona virus oh good advice

89

00:04:18,260 --> 00:04:14,820

indeed homeopathy plus we might look at

90

00:04:19,909 --> 00:04:18,270

that a bit more in depth next week this

91

00:04:22,240 --> 00:04:19,919

is the same outfit that was taken to

92

00:04:25,520 --> 00:04:22,250

court a few years ago about their

93

00:04:28,810 --> 00:04:25,530

publication of information suggesting

94

00:04:31,220 --> 00:04:28,820

that their magic sugar water could help

95

00:04:33,680 --> 00:04:31,230

prevent whooping cough by way of

96

00:04:35,240 --> 00:04:33,690

vaccinations well that's enough for me

97

00:04:37,970 --> 00:04:35,250

at the moment it's time for me to run

98

00:04:39,880 --> 00:04:37,980

downstairs and see if I have the

99

00:04:43,370 --> 00:04:39,890

ingredients to make up some yummy

100

00:04:45,680 --> 00:04:43,380

Japanese pancakes mmm while I do that I

101
00:04:53,990 --> 00:04:45,690
hope you enjoy the skeptic zone

102
00:05:09,020 --> 00:04:54,000
[Music]

103
00:05:11,690 --> 00:05:09,030
the Surf Coast summer skeptic 1/8 was

104
00:05:13,970 --> 00:05:11,700
held on Saturday the 29th of February at

105
00:05:17,390 --> 00:05:13,980
a Lee's Inlet community center in

106
00:05:19,880 --> 00:05:17,400
Victoria the day included talks by Tina

107
00:05:23,530 --> 00:05:19,890
Harrigan mal Vickers Ross Finlay Joanne

108
00:05:26,960 --> 00:05:23,540
Benna mu dr. Scott Power and many more I

109
00:05:28,840 --> 00:05:26,970
was very grateful to be flown down just

110
00:05:31,040 --> 00:05:28,850
for the event

111
00:05:32,780 --> 00:05:31,050
well after weeks and weeks of

112
00:05:34,880 --> 00:05:32,790
anticipation we're actually here at

113
00:05:37,730 --> 00:05:34,890

aireys inlet for skeptic amp

114

00:05:40,100 --> 00:05:37,740

Surf Coast summer skeptic cam ape the

115

00:05:43,820 --> 00:05:40,110

room is filling up with skeptics the

116

00:05:46,960 --> 00:05:43,830

talks will beginning soon and it's gonna

117

00:05:49,400 --> 00:05:46,970

be an interesting day because we have a

118

00:05:52,520 --> 00:05:49,410

test today we're running a test of the

119

00:05:55,310 --> 00:05:52,530

premium wine card links in this week's

120

00:05:57,350 --> 00:05:55,320

show notes to this interesting device so

121

00:06:00,920 --> 00:05:57,360

I'm standing between two trestle tables

122

00:06:03,110 --> 00:06:00,930

both tables are filled up with all sorts

123

00:06:05,450 --> 00:06:03,120

of different wine cups and glasses and

124

00:06:07,400 --> 00:06:05,460

things with a little bit of red wine at

125

00:06:10,400 --> 00:06:07,410

the moment in each one on table a I walk

126
00:06:11,960 --> 00:06:10,410
over the table B and there's the equal

127
00:06:16,460 --> 00:06:11,970
number of cups with a bit of red wine

128
00:06:18,560 --> 00:06:16,470
now I don't know if the wine is the same

129
00:06:22,450 --> 00:06:18,570
wine in all the cups on table a and

130
00:06:24,470 --> 00:06:22,460
table B I don't know if table a is

131
00:06:26,750 --> 00:06:24,480
treated the wine on table a has been

132
00:06:29,300 --> 00:06:26,760
treated with the premium wine card which

133
00:06:31,070 --> 00:06:29,310
improves the taste of wine or table

134
00:06:34,940 --> 00:06:31,080
beers being treated or nothing's been

135
00:06:36,740 --> 00:06:34,950
treated it's in this respect to me it's

136
00:06:39,170 --> 00:06:36,750
completely blind people will be tasting

137
00:06:40,370 --> 00:06:39,180
the wine when from anyone from be coming

138
00:06:41,840 --> 00:06:40,380

over to me and I'll be keeping the

139

00:06:46,430 --> 00:06:41,850

results and at the end of the day we'll

140

00:06:48,680 --> 00:06:46,440

see whether the wines treated with a

141

00:06:52,640 --> 00:06:48,690

premium wine card again I have no idea

142

00:06:55,070 --> 00:06:52,650

which wines they might be will taste

143

00:06:56,930 --> 00:06:55,080

better than the wines not treated with

144

00:06:59,690 --> 00:06:56,940

the premium wine card or if people can

145

00:07:01,730 --> 00:06:59,700

tell the difference at all Steve Roberts

146

00:07:03,850 --> 00:07:01,740

is the wine master today helping me with

147

00:07:09,080 --> 00:07:03,860

the test how's it lookin Stephen

148

00:07:11,840 --> 00:07:09,090

good point so we bought some incredibly

149

00:07:13,790 --> 00:07:11,850

cheap wine some very nice wine and again

150

00:07:15,500 --> 00:07:13,800

I have no idea looking at now you know

151

00:07:18,280 --> 00:07:15,510

but I have no idea which one is which

152

00:07:20,810 --> 00:07:18,290

well the cheap wine corrodes the glasses

153

00:07:22,700 --> 00:07:20,820

as well as our insides I think it could

154

00:07:24,710 --> 00:07:22,710

be yeah like we put tiny portions out of

155

00:07:27,710 --> 00:07:24,720

that 20 Mille in different shaped

156

00:07:29,330 --> 00:07:27,720

glasses on a table and a B tape yeah and

157

00:07:31,400 --> 00:07:29,340

you can find the same glass at each

158

00:07:33,560 --> 00:07:31,410

table and what people do is to try while

159

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

and try the other and tell them tell us

160

00:07:37,730 --> 00:07:35,250

which one they like better or are they

161

00:07:39,080 --> 00:07:37,740

the same yeah these being skeptic so

162

00:07:40,520 --> 00:07:39,090

looking they're the same actually they

163

00:07:42,590 --> 00:07:40,530

will not be the same there's not they

164

00:07:43,940 --> 00:07:42,600

might or may not well I don't know yeah

165

00:07:46,430 --> 00:07:43,950

no idea as I was saying to the audience

166

00:07:49,370 --> 00:07:46,440

those glasses might have good wine and

167

00:07:52,010 --> 00:07:49,380

that's cheap wine or that's the same

168

00:07:53,630 --> 00:07:52,020

wine I have no I got my a lot of it may

169

00:07:55,640 --> 00:07:53,640

not have been used or gather some

170

00:07:57,650 --> 00:07:55,650

statistics and that's during the break

171

00:07:59,390 --> 00:07:57,660

after the first talk and then I'll

172

00:08:02,270 --> 00:07:59,400

scuttle away washed the glasses or serve

173

00:08:04,820 --> 00:08:02,280

them all again it's looking good it's

174

00:08:11,810 --> 00:08:04,830

looking good or if they're getting miss

175

00:08:13,550 --> 00:08:11,820

half your tours really good as the day

176
00:08:15,620 --> 00:08:13,560
progressed people came to the back of

177
00:08:19,120 --> 00:08:15,630
the room where I was seated and took

178
00:08:21,560 --> 00:08:19,130
part in testing the two samples of wine

179
00:08:24,200 --> 00:08:21,570
most people headed straight for Table A

180
00:08:26,600 --> 00:08:24,210
had a drink walked over a table B and

181
00:08:29,030 --> 00:08:26,610
another drink and then reported to me

182
00:08:30,530 --> 00:08:29,040
the results either table a wine tasted

183
00:08:32,810 --> 00:08:30,540
better than table B in their opinion

184
00:08:35,810 --> 00:08:32,820
table B wine tasted better than table a

185
00:08:38,089 --> 00:08:35,820
in their opinion or they couldn't tell

186
00:08:40,130 --> 00:08:38,099
the difference I thought the wine tasted

187
00:08:42,500 --> 00:08:40,140
just the same during the day we had

188
00:08:45,560 --> 00:08:42,510

three rounds of wine tasting plus a

189

00:08:47,390 --> 00:08:45,570

round of tap water tasting now what

190

00:08:49,070 --> 00:08:47,400

Steve Roberts was doing in a kitchen

191

00:08:51,590 --> 00:08:49,080

around the corner where nobody could see

192

00:08:54,580 --> 00:08:51,600

was he was pouring out little amounts of

193

00:08:59,240 --> 00:08:54,590

wine into the glasses and as per the

194

00:09:03,050 --> 00:08:59,250

premium wine card instructions he was

195

00:09:05,330 --> 00:09:03,060

rubbing the card on the side of each

196

00:09:07,310 --> 00:09:05,340

glass that was to be treated again

197

00:09:09,410 --> 00:09:07,320

during each round we didn't know with

198

00:09:11,360 --> 00:09:09,420

our table a or table B was treated and

199

00:09:14,690 --> 00:09:11,370

we didn't know if the same wine was even

200

00:09:17,510 --> 00:09:14,700

being used in samples a and B I can tell

201
00:09:19,280 --> 00:09:17,520
you that we had two types of wine

202
00:09:21,320 --> 00:09:19,290
very cheap wine roughly two dollars

203
00:09:24,260 --> 00:09:21,330
fifty a bottle and more expensive wine

204
00:09:26,120 --> 00:09:24,270
at something like \$10 a bottle while

205
00:09:28,210 --> 00:09:26,130
that was going on I had a word to one of

206
00:09:30,230 --> 00:09:28,220
the organizers Don Hyatt

207
00:09:31,940 --> 00:09:30,240
well it's halfway through the day

208
00:09:34,160 --> 00:09:31,950
skeptic camp has been going really good

209
00:09:36,350 --> 00:09:34,170
so far some interesting talks on

210
00:09:38,060 --> 00:09:36,360
mathematics and medicine stuff and we've

211
00:09:39,680 --> 00:09:38,070
got Don hide here one of the organizers

212
00:09:41,870 --> 00:09:39,690
Don how's it going do you think I think

213
00:09:44,420 --> 00:09:41,880

it's going very well we've had a bumper

214

00:09:46,540 --> 00:09:44,430

crew and Michelle has actually done a

215

00:09:50,060 --> 00:09:46,550

wonderful job in terms of advertising

216

00:09:53,030 --> 00:09:50,070

the the events the new reporter Michelle

217

00:09:55,370 --> 00:09:53,040

of course absolutely and we appreciate

218

00:09:57,950 --> 00:09:55,380

the support as ever from the skeptics I

219

00:09:59,870 --> 00:09:57,960

thank you yeah yes so one of the

220

00:10:01,790 --> 00:09:59,880

interesting things is that I'm not

221

00:10:03,590 --> 00:10:01,800

actually a jalan resident in fact

222

00:10:06,680 --> 00:10:03,600

there's only about one or two jalan

223

00:10:09,380 --> 00:10:06,690

residents here so what we found in the

224

00:10:11,720 --> 00:10:09,390

past is that I have to travel two hours

225

00:10:15,200 --> 00:10:11,730

to get here Richard which is a long way

226

00:10:17,030 --> 00:10:15,210

it'd be great to have a local resident

227

00:10:21,440 --> 00:10:17,040

actually either on the Working Committee

228

00:10:23,450 --> 00:10:21,450

or convening the event because this is a

229

00:10:26,240 --> 00:10:23,460

Geelong event was started by McVeigh ERG

230

00:10:28,790 --> 00:10:26,250

eight years ago was run by him for the

231

00:10:31,220 --> 00:10:28,800

first three years and we also had Zola

232

00:10:33,320 --> 00:10:31,230

and James and unfortunately none of

233

00:10:35,630 --> 00:10:33,330

those can continue on in that position

234

00:10:37,880 --> 00:10:35,640

so I'm sort of in caretaker mode for

235

00:10:40,220 --> 00:10:37,890

Ryan right so you're interested in

236

00:10:42,200 --> 00:10:40,230

somebody from the Geelong area taking an

237

00:10:46,400 --> 00:10:42,210

interest in this so if there's anyone

238

00:10:48,110 --> 00:10:46,410

within your large viewing audience if

239

00:10:50,840 --> 00:10:48,120

they are interested in that if they

240

00:10:56,170 --> 00:10:50,850

could just contact us sceptic groups of

241

00:10:59,510 --> 00:10:56,180

Victoria its G of Vic yeah at gmail.com

242

00:11:01,550 --> 00:10:59,520

let me know and we'll certainly talk to

243

00:11:03,650 --> 00:11:01,560

them with a view to putting them on the

244

00:11:05,150 --> 00:11:03,660

working group excellent folks there'll

245

00:11:07,520 --> 00:11:05,160

be a link in this week's show notes and

246

00:11:09,290 --> 00:11:07,530

if this is anything to go by it's a

247

00:11:11,780 --> 00:11:09,300

really worthwhile and fun day Thank You

248

00:11:14,990 --> 00:11:11,790

Don that's a great pleasure and terrific

249

00:11:16,850 --> 00:11:15,000

to see you down here to Richard more

250

00:11:18,530 --> 00:11:16,860

wine-tasting is the afternoon progress

251
00:11:20,510 --> 00:11:18,540
now you might be interested to know

252
00:11:21,770 --> 00:11:20,520
about this premium wine card they'll be

253
00:11:23,210 --> 00:11:21,780
linked in this week's show notes so you

254
00:11:25,490 --> 00:11:23,220
can check it out for yourself and see

255
00:11:27,770 --> 00:11:25,500
the video where this thing is

256
00:11:31,520 --> 00:11:27,780
demonstrated which is quite something I

257
00:11:34,640 --> 00:11:31,530
promise you but on the page itself and

258
00:11:36,170 --> 00:11:34,650
these cards sell for 65 dollars a pop

259
00:11:38,870 --> 00:11:36,180
they're about the size of a credit card

260
00:11:41,840 --> 00:11:38,880
they're metallic it says the technology

261
00:11:45,320 --> 00:11:41,850
the premium wine card contains an

262
00:11:47,660 --> 00:11:45,330
embedded set of precise frequencies that

263
00:11:50,060 --> 00:11:47,670

produce long-lasting natural resonance

264

00:11:53,630 --> 00:11:50,070

the resonance can be transferred to the

265

00:11:56,390 --> 00:11:53,640

wine through the wine glass how does a

266

00:11:58,340 --> 00:11:56,400

premium wine card work the resonance of

267

00:11:59,840 --> 00:11:58,350

the premium wine card has a positive

268

00:12:02,810 --> 00:11:59,850

effect on the tannins and the wine

269

00:12:05,570 --> 00:12:02,820

causing them to quickly soften as if the

270

00:12:08,120 --> 00:12:05,580

wine had been further aged for a number

271

00:12:10,430 --> 00:12:08,130

of years you may notice that the wine

272

00:12:13,820 --> 00:12:10,440

treated with the card has a fruity aroma

273

00:12:16,250 --> 00:12:13,830

and a smooth richer flavor with the

274

00:12:21,050 --> 00:12:16,260

mellower softer finish that is typical

275

00:12:22,940 --> 00:12:21,060

of a premium salad wine enjoy the

276

00:12:24,560 --> 00:12:22,950

premium wine card has been on the radar

277

00:12:27,080 --> 00:12:24,570

of Australian sceptics for about five

278

00:12:28,970 --> 00:12:27,090

years and and about five years ago we

279

00:12:32,150 --> 00:12:28,980

did an informal test at skeptics in the

280

00:12:34,040 --> 00:12:32,160

pub and we had a lot of fun doing that

281

00:12:39,079 --> 00:12:34,050

this test was somewhat more formal and

282

00:12:41,180 --> 00:12:39,089

it will be written up at the end of the

283

00:12:42,250 --> 00:12:41,190

day we were ready to announce the

284

00:12:45,500 --> 00:12:42,260

results

285

00:12:47,840 --> 00:12:45,510

CVM wine cart which we have here and you

286

00:12:49,730 --> 00:12:47,850

get beautiful packaging for with it you

287

00:12:51,970 --> 00:12:49,740

get a nice box and all that that's it

288

00:12:54,050 --> 00:12:51,980

it's metal it's got holes in it

289

00:13:02,630 --> 00:12:54,060

\$65 so you meant to pop it on the wine

290

00:13:05,510 --> 00:13:02,640

glass and the first test out of 17

291

00:13:08,120 --> 00:13:05,520

people 8 can tell the difference to sort

292

00:13:11,510 --> 00:13:08,130

the charged wine was better than seven

293

00:13:13,790 --> 00:13:11,520

thought it was worse actually this one

294

00:13:16,070 --> 00:13:13,800

is \$15 wine that you were drinking on

295

00:13:19,730 --> 00:13:16,080

the first two tests and and by that I

296

00:13:23,329 --> 00:13:19,740

mean not \$15 a bottle but \$15 for six

297

00:13:25,310 --> 00:13:23,339

bottles so if you can make it this and

298

00:13:29,600 --> 00:13:25,320

that it's really quite a feat you know

299

00:13:31,700 --> 00:13:29,610

the Aldi's lowest set test to actually

300

00:13:33,770 --> 00:13:31,710

six six thought it was better than the

301
00:13:35,300 --> 00:13:33,780
three thought it was worse than four

302
00:13:36,710 --> 00:13:35,310
couldn't tell it was actually a bit of a

303
00:13:38,270 --> 00:13:36,720
result the other way but when you had

304
00:13:40,460 --> 00:13:38,280
the two together it was the same wine

305
00:13:43,070 --> 00:13:40,470
the two tests it comes out slightly

306
00:13:45,020 --> 00:13:43,080
negative for the card and then the test

307
00:13:47,450 --> 00:13:45,030
three was a better wine

308
00:13:49,370 --> 00:13:47,460
a decent one that was six seven and

309
00:13:51,200 --> 00:13:49,380
seven you know six preferred it's

310
00:13:53,900 --> 00:13:51,210
everything it was worse than seven

311
00:13:55,670 --> 00:13:53,910
didn't know which is pretty flat I'm

312
00:13:57,080 --> 00:13:55,680
actually amazed I mean you're skeptics

313
00:14:00,440 --> 00:13:57,090

yeah it should be like twenty one don't

314

00:14:02,510 --> 00:14:00,450

know and zero and zero and with water

315

00:14:04,370 --> 00:14:02,520

it's the same one preferred one didn't

316

00:14:06,620 --> 00:14:04,380

like it and six didn't know so the

317

00:14:08,840 --> 00:14:06,630

results come out completely flat

318

00:14:10,430 --> 00:14:08,850

completely flat and according to the

319

00:14:14,720 --> 00:14:10,440

premium wine cards

320

00:14:16,970 --> 00:14:14,730

own tests seven out of eight in a blind

321

00:14:19,880 --> 00:14:16,980

test chose the wine treated with the

322

00:14:21,290 --> 00:14:19,890

premium wine capital so this was

323

00:14:23,450 --> 00:14:21,300

actually was a double-blind test that I

324

00:14:25,940 --> 00:14:23,460

knew and only I knew until now which

325

00:14:27,350 --> 00:14:25,950

wine was which so has actually done

326

00:14:29,090 --> 00:14:27,360

properly doubled wine it was great fun

327

00:14:32,600 --> 00:14:29,100

devising it and have a great fun washing

328

00:14:34,280 --> 00:14:32,610

a hundred and fifty wine glasses thank

329

00:14:36,890 --> 00:14:34,290

you everybody who took part and had a

330

00:14:39,140 --> 00:14:36,900

taste for us this will be written up and

331

00:14:41,660 --> 00:14:39,150

published in the the skeptic Journal and

332

00:14:44,510 --> 00:14:41,670

will probably hopefully help to further

333

00:14:47,530 --> 00:14:44,520

our cause and maybe do something about

334

00:14:53,609 --> 00:14:47,540

this company so thank you very much

335

00:14:57,100 --> 00:14:53,619

[Applause]

336

00:15:00,189 --> 00:14:57,110

to recap those results we had four

337

00:15:04,239 --> 00:15:00,199

rounds round one the wine was the very

338

00:15:06,220 --> 00:15:04,249

cheap wine and the wine on table a all

339

00:15:08,199 --> 00:15:06,230

the wine on table a was treated with the

340

00:15:09,549 --> 00:15:08,209

wine card and all the wine on table B

341

00:15:12,850 --> 00:15:09,559

was poured straight from the bottle

342

00:15:15,189 --> 00:15:12,860

without being treated two people thought

343

00:15:17,979 --> 00:15:15,199

that the wine card treated wine tasted

344

00:15:19,780 --> 00:15:17,989

better seven people thought the

345

00:15:21,069 --> 00:15:19,790

untreated wine tasted better and

346

00:15:23,259 --> 00:15:21,079

remember they didn't have a clue which

347

00:15:25,509 --> 00:15:23,269

was which and eight people thought they

348

00:15:29,470 --> 00:15:25,519

tasted just the same so that's a very

349

00:15:32,439 --> 00:15:29,480

flat result favoring the untreated wine

350

00:15:34,660 --> 00:15:32,449

round two was also the cheap wine six

351
00:15:37,900 --> 00:15:34,670
people this time thought the wine card

352
00:15:39,879 --> 00:15:37,910
wine tasted better three people thought

353
00:15:41,579 --> 00:15:39,889
the untreated wine tasted better and

354
00:15:45,519 --> 00:15:41,589
four people couldn't tell the difference

355
00:15:47,499 --> 00:15:45,529
again hardly statistically amazing

356
00:15:50,169 --> 00:15:47,509
results round three was the more

357
00:15:52,449 --> 00:15:50,179
expensive wine and this was very flat

358
00:15:55,539 --> 00:15:52,459
along the board six people thought the

359
00:15:57,460 --> 00:15:55,549
treated wine tasted better seven people

360
00:15:58,989 --> 00:15:57,470
thought the untreated wine tasted better

361
00:16:01,210 --> 00:15:58,999
and seven people couldn't tell the

362
00:16:03,939 --> 00:16:01,220
difference and finally some people tried

363
00:16:06,119 --> 00:16:03,949

some water the water treated with wine

364

00:16:09,329 --> 00:16:06,129

card scored one point the water

365

00:16:13,150 --> 00:16:09,339

untreated scored a point but six people

366

00:16:15,789 --> 00:16:13,160

couldn't tell the difference this whole

367

00:16:18,249 --> 00:16:15,799

idea of embedded frequencies was also

368

00:16:21,249 --> 00:16:18,259

used many years ago to sell the Power

369

00:16:24,249 --> 00:16:21,259

Balance and that sort of range of

370

00:16:26,949 --> 00:16:24,259

plastic wristbands now riding in

371

00:16:30,519 --> 00:16:26,959

science-based medicine org dr. Harriet

372

00:16:33,280 --> 00:16:30,529

hall the skeptic says embedded

373

00:16:36,489 --> 00:16:33,290

frequencies are bogus they usually use

374

00:16:39,179 --> 00:16:36,499

the word frequency in isolation but the

375

00:16:42,460 --> 00:16:39,189

word is meaningless unless you specify

376
00:16:44,409 --> 00:16:42,470
frequencies of what frequency is defined

377
00:16:47,470 --> 00:16:44,419
as the number of occurrences of a

378
00:16:50,189 --> 00:16:47,480
repeating event per time unit and you

379
00:16:53,229 --> 00:16:50,199
have to specify what event is repeating

380
00:16:55,509 --> 00:16:53,239
revolutions per minute rpm heart beats

381
00:16:58,900 --> 00:16:55,519
per minute waves of light or sound

382
00:17:01,539 --> 00:16:58,910
cycles per second Hertz is a unit of

383
00:17:04,000 --> 00:17:01,549
frequency defined as one cycle per

384
00:17:06,790 --> 00:17:04,010
second you can't in

385
00:17:08,260 --> 00:17:06,800
find a frequency you might be able to

386
00:17:12,220 --> 00:17:08,270
embed something that would produce

387
00:17:14,439 --> 00:17:12,230
vibrations or electromagnetic waves with

388
00:17:17,380 --> 00:17:14,449

the frequency but it would require a

389

00:17:21,120 --> 00:17:17,390

power source if a product contains a

390

00:17:25,569 --> 00:17:21,130

frequency generator so what conclusion

391

00:17:27,880 --> 00:17:25,579

embedded frequencies are bogus and as

392

00:17:30,610 --> 00:17:27,890

part of the research on this premium

393

00:17:32,920 --> 00:17:30,620

wine card I have in my possession some

394

00:17:35,740 --> 00:17:32,930

videos that they themselves shot which

395

00:17:38,680 --> 00:17:35,750

are very telling indeed and maybe they

396

00:17:40,780 --> 00:17:38,690

will make part of a future report in the

397

00:17:48,100 --> 00:17:40,790

pages of the skeptic the journal from

398

00:17:50,080 --> 00:17:48,110

Australian skeptics a big thank you to

399

00:17:52,090 --> 00:17:50,090

everybody involved in putting certh

400

00:17:55,510 --> 00:17:52,100

coasters I'm a skeptic amp eight

401
00:17:57,610 --> 00:17:55,520
together it was a terrific day good to

402
00:18:01,480 --> 00:17:57,620
be part of it and then we had a lot of

403
00:18:04,330 --> 00:18:01,490
fun conducting the wine card tests and

404
00:18:06,580 --> 00:18:04,340
the days surrounding south coast I'm a

405
00:18:09,850 --> 00:18:06,590
skeptic Emperor joy - with the big

406
00:18:12,310 --> 00:18:09,860
thanks to Michelle big asthma who kindly

407
00:18:15,190 --> 00:18:12,320
put us up in the area and Steve Roberts

408
00:18:27,000 --> 00:18:15,200
for helping out on the day

409
00:18:36,360 --> 00:18:31,430
Tajima ki te te te ropu da cos TOA

410
00:18:42,020 --> 00:18:36,370
austoria kala Saskia chicas on to you

411
00:18:45,690 --> 00:18:42,030
kaga keto bran Reno Porto custodes a Goa

412
00:18:51,030 --> 00:18:45,700
ceccacci de su arakata bono he taught

413
00:18:55,080 --> 00:18:51,040

cska Cano Porto cast OA Johanna Cooney

414

00:19:01,980 --> 00:18:55,090

nokotta body show Cosima's dabra dabra

415

00:19:06,960 --> 00:19:01,990

dabra skeptics on TV she rabbit a homo

416

00:19:11,310 --> 00:19:06,970

Pacino Hamid any screw Rosarito origami

417

00:19:12,030 --> 00:19:11,320

no Pegasus a toy you see personal re

418

00:19:16,910 --> 00:19:12,040

puta

419

00:19:22,410 --> 00:19:16,920

Oh chief esta rich artisan desuno

420

00:19:25,750 --> 00:19:22,420

original know origami no posto down Rho

421

00:19:33,909 --> 00:19:25,760

dou suru koto got Hakeem ass

422

00:19:44,330 --> 00:19:39,110

here's Maynard spooky action at the

423

00:19:46,310 --> 00:19:44,340

distance welcome to a very special

424

00:19:47,990 --> 00:19:46,320

skeptics dinner tonight covering for the

425

00:19:49,820 --> 00:19:48,000

skeptics shown he's Maynard people are

426
00:19:51,230 --> 00:19:49,830
saying too may not hey I guess you'll be

427
00:19:52,639 --> 00:19:51,240
going to mighty great or not I mean no

428
00:19:54,500 --> 00:19:52,649
I'm going to watch a few PowerPoint

429
00:19:56,060 --> 00:19:54,510
display graphs from a climatologist I

430
00:19:57,590 --> 00:19:56,070
know how difficult a good time when

431
00:19:59,000 --> 00:19:57,600
there's only a block away for me there's

432
00:20:01,190 --> 00:19:59,010
half-naked people I'm watching a

433
00:20:03,649 --> 00:20:01,200
PowerPoint display and listening to mr.

434
00:20:05,269 --> 00:20:03,659
Michael Mann that's right Michael Eman

435
00:20:07,220 --> 00:20:05,279
is the guest tonight and I've just been

436
00:20:09,560 --> 00:20:07,230
looking at his academic record this guy

437
00:20:13,250 --> 00:20:09,570
probably didn't go out for about 11

438
00:20:14,990 --> 00:20:13,260

years I'd say between 1989 and yeah he

439

00:20:17,330 --> 00:20:15,000

just didn't go out anyway he was doing

440

00:20:20,060 --> 00:20:17,340

lots and lots of physics degrees

441

00:20:22,159 --> 00:20:20,070

looks like majored in philosophy geology

442

00:20:25,639 --> 00:20:22,169

geophysics and of course he's best known

443

00:20:28,639 --> 00:20:25,649

as being the lead author on the 3rd IPCC

444

00:20:30,529 --> 00:20:28,649

third assessment report on how the

445

00:20:31,940 --> 00:20:30,539

planets doomed so I'm gonna hopefully

446

00:20:33,680 --> 00:20:31,950

talk to him about how we may be not

447

00:20:35,120 --> 00:20:33,690

doomed and I'm gonna be asking him and

448

00:20:36,379 --> 00:20:35,130

all that let's get fix here tonight at

449

00:20:37,730 --> 00:20:36,389

the skeptics dinner

450

00:20:39,620 --> 00:20:37,740

I'll see if anyone's flicking butter

451
00:20:40,970 --> 00:20:39,630
around - oh God they'll be in trouble if

452
00:20:43,909 --> 00:20:40,980
they do flick butter tonight they sure

453
00:20:46,490 --> 00:20:43,919
well I'll be asking him why people are

454
00:20:48,680 --> 00:20:46,500
so reluctant to accept the climate

455
00:20:50,570 --> 00:20:48,690
change data and why they don't want to

456
00:20:52,340 --> 00:20:50,580
is it just they don't like bad news is

457
00:20:54,019 --> 00:20:52,350
it because they've got vested interests

458
00:20:56,180 --> 00:20:54,029
because I just like things to remain the

459
00:20:58,129 --> 00:20:56,190
same all that lots of climate change fun

460
00:21:01,970 --> 00:20:58,139
on this Sydney gay lesbian Mardi Gras

461
00:21:03,919 --> 00:21:01,980
night look I'm very lucky to be talking

462
00:21:05,330 --> 00:21:03,929
with that dr. Michael Mann it's a great

463
00:21:06,799 --> 00:21:05,340

pleasure to meet you sir I think you're

464

00:21:08,299 --> 00:21:06,809

great to be with you look I've got so

465

00:21:09,799 --> 00:21:08,309

many questions but the first I was just

466

00:21:11,419 --> 00:21:09,809

looking at your record there and you

467

00:21:13,310 --> 00:21:11,429

probably didn't go anywhere go out of

468

00:21:15,350 --> 00:21:13,320

his social for about 12 years at

469

00:21:17,539 --> 00:21:15,360

California Berkeley you are studying up

470

00:21:20,509 --> 00:21:17,549

a storm there and doing so many things

471

00:21:22,039 --> 00:21:20,519

oh you know college life is always busy

472

00:21:23,629 --> 00:21:22,049

and you find time for the things that

473

00:21:25,940 --> 00:21:23,639

are important but yeah I double majored

474

00:21:27,919 --> 00:21:25,950

in applied math and physics UC Berkeley

475

00:21:30,050 --> 00:21:27,929

and started scientific research while I

476
00:21:31,970 --> 00:21:30,060
was an undergraduate there and when

477
00:21:34,160 --> 00:21:31,980
to graduate school in physics at Yale

478
00:21:37,550 --> 00:21:34,170
University and eventually ended up in

479
00:21:39,740 --> 00:21:37,560
the field of climate climate science you

480
00:21:41,390 --> 00:21:39,750
obviously very well-educated is there a

481
00:21:43,760 --> 00:21:41,400
reason you chose this field you didn't

482
00:21:46,550 --> 00:21:43,770
go into pharmacy or medicine or or even

483
00:21:48,800 --> 00:21:46,560
the arts and become a lobbyist yeah you

484
00:21:53,480 --> 00:21:48,810
know it's yeah I think these things are

485
00:21:56,540 --> 00:21:53,490
often just an accident of one's you know

486
00:21:59,540 --> 00:21:56,550
just the decisions one happens to make I

487
00:22:01,070 --> 00:21:59,550
like I said I double majored in applied

488
00:22:03,380 --> 00:22:01,080

math and physics went out to graduate

489

00:22:05,510 --> 00:22:03,390

school in theoretical physics at Yale

490

00:22:08,030 --> 00:22:05,520

University and after a couple years

491

00:22:11,450 --> 00:22:08,040

after passing all my exams I realized I

492

00:22:13,790 --> 00:22:11,460

wasn't you know I I wasn't working on a

493

00:22:16,250 --> 00:22:13,800

problem that really excited me and so I

494

00:22:18,230 --> 00:22:16,260

opened up the catalog at Yale University

495

00:22:20,900 --> 00:22:18,240

that the catalog of problems at the

496

00:22:23,930 --> 00:22:20,910

university has essentially essentially I

497

00:22:25,640 --> 00:22:23,940

opened up the catalog of science and

498

00:22:27,650 --> 00:22:25,650

applied science and started looking

499

00:22:29,960 --> 00:22:27,660

through it to see what other research

500

00:22:32,570 --> 00:22:29,970

projects were going on in the university

501
00:22:35,540 --> 00:22:32,580
one of their faculty were working on

502
00:22:37,160 --> 00:22:35,550
problems that seemed interesting and

503
00:22:39,380 --> 00:22:37,170
they made use of the math and the

504
00:22:41,630 --> 00:22:39,390
physics that I had you know learned and

505
00:22:44,150 --> 00:22:41,640
and I saw there was a professor in the

506
00:22:46,700 --> 00:22:44,160
department of geology and geophysics who

507
00:22:48,800 --> 00:22:46,710
was using physics and math to model

508
00:22:50,810 --> 00:22:48,810
Earth's climate system and that sounded

509
00:22:53,510 --> 00:22:50,820
very interesting to me went to talk with

510
00:22:55,760 --> 00:22:53,520
him the rest is history I ended up going

511
00:22:57,350 --> 00:22:55,770
in that direction and with the modeling

512
00:22:59,510 --> 00:22:57,360
too there's a lot of lot of people argue

513
00:23:00,710 --> 00:22:59,520

about the noisy data that has to get

514

00:23:03,170 --> 00:23:00,720

thrown out and whether it should be

515

00:23:05,660 --> 00:23:03,180

thrown out how do you work that out as

516

00:23:06,830 --> 00:23:05,670

the layman it's like you keep away from

517

00:23:08,780 --> 00:23:06,840

concrete buildings where the

518

00:23:11,840 --> 00:23:08,790

measurements are how do you do the noisy

519

00:23:14,660 --> 00:23:11,850

data from the good data yeah so you know

520

00:23:16,760 --> 00:23:14,670

the observational record thermometer

521

00:23:19,670 --> 00:23:16,770

measurements around the world there are

522

00:23:21,200 --> 00:23:19,680

teams there are probably hundreds of

523

00:23:23,600 --> 00:23:21,210

scientists now who spend their whole

524

00:23:25,940 --> 00:23:23,610

lives working on this exact problem and

525

00:23:28,610 --> 00:23:25,950

thinking about every possible nuance

526

00:23:31,280 --> 00:23:28,620

what sort of corrections need to be made

527

00:23:33,040 --> 00:23:31,290

if a thermometer was moved at some point

528

00:23:37,030 --> 00:23:33,050

from one location to another

529

00:23:40,480 --> 00:23:37,040

how you deal with the effect of changing

530

00:23:42,610 --> 00:23:40,490

bucket measurements ocean temperatures

531

00:23:45,100 --> 00:23:42,620

made with buckets they were wood buckets

532

00:23:46,300 --> 00:23:45,110

and they change over to metal buckets so

533

00:23:49,870 --> 00:23:46,310

you have to account for the different

534

00:23:52,150 --> 00:23:49,880

heat capacities and so there is and then

535

00:23:55,690 --> 00:23:52,160

sort of urban heat island effects in a

536

00:23:58,090 --> 00:23:55,700

place here like Sydney is warmed up you

537

00:24:00,160 --> 00:23:58,100

know in part you know more than the

538

00:24:01,720 --> 00:24:00,170

surrounding countryside because of the

539

00:24:04,810 --> 00:24:01,730

the concrete and the absorptive

540

00:24:06,910 --> 00:24:04,820

properties of sort of the urban

541

00:24:08,740 --> 00:24:06,920

landscape and so you have to correct for

542

00:24:11,920 --> 00:24:08,750

those things so there are scientists who

543

00:24:14,530 --> 00:24:11,930

will do their entire PhD on one aspect

544

00:24:16,210 --> 00:24:14,540

of one of those problems and and it's

545

00:24:17,620 --> 00:24:16,220

only because of that because you do have

546

00:24:20,410 --> 00:24:17,630

these teams of scientists using

547

00:24:22,570 --> 00:24:20,420

different approaches you know coming at

548

00:24:24,130 --> 00:24:22,580

the problem from different directions

549

00:24:26,530 --> 00:24:24,140

and in my presentation tonight I'll be

550

00:24:29,230 --> 00:24:26,540

talking a little bit about that how

551
00:24:31,360 --> 00:24:29,240
we're able to converge with a remarkably

552
00:24:33,100 --> 00:24:31,370
precise picture of how Earth's

553
00:24:36,130 --> 00:24:33,110
temperature has changed over the past

554
00:24:38,200 --> 00:24:36,140
century and a half and are you are you

555
00:24:39,700 --> 00:24:38,210
happy with the way things might be going

556
00:24:41,110 --> 00:24:39,710
in the future obviously now people are a

557
00:24:42,490 --> 00:24:41,120
bit slow to pick up on the information

558
00:24:44,740 --> 00:24:42,500
you'll give you them that must be very

559
00:24:46,600 --> 00:24:44,750
frustrating do you ever I mean you must

560
00:24:49,390 --> 00:24:46,610
yell at the mirror a lot at home so you

561
00:24:53,080 --> 00:24:49,400
don't do it at lectures well you know I

562
00:24:55,960 --> 00:24:53,090
won't describe the you know the

563
00:24:59,860 --> 00:24:55,970

frustrations that we you know that one

564

00:25:02,110 --> 00:24:59,870

has at times one can imagine that it can

565

00:25:04,690 --> 00:25:02,120

be frustrating to be trying to

566

00:25:07,060 --> 00:25:04,700

communicate you know as as a scientist

567

00:25:09,760 --> 00:25:07,070

who enjoys communicating science to the

568

00:25:11,950 --> 00:25:09,770

public and to be trying to do that and

569

00:25:14,140 --> 00:25:11,960

to get all this pushback from people are

570

00:25:16,870 --> 00:25:14,150

trying to discredit you my good friend

571

00:25:18,730 --> 00:25:16,880

dr. Carl I know is very involved in

572

00:25:21,070 --> 00:25:18,740

those efforts here in Australia to

573

00:25:23,080 --> 00:25:21,080

educate the public about issues like

574

00:25:25,360 --> 00:25:23,090

climate change and I see some of the

575

00:25:26,760 --> 00:25:25,370

interactions he has online with climate

576

00:25:28,020 --> 00:25:26,770

contrarians and it takes

577

00:25:30,270 --> 00:25:28,030

yeah you know one of the things people

578

00:25:32,100 --> 00:25:30,280

seem to think that you're invested in

579

00:25:34,230 --> 00:25:32,110

there being climate change because

580

00:25:36,240 --> 00:25:34,240

you'll get research grants out of it and

581

00:25:39,690 --> 00:25:36,250

you'll be paid more money or something

582

00:25:41,760 --> 00:25:39,700

something like that right it's it's it's

583

00:25:43,140 --> 00:25:41,770

sort of a silly argument and it you know

584

00:25:45,360 --> 00:25:43,150

to some extent it's what I guess

585

00:25:47,910 --> 00:25:45,370

psychologists call projection which is

586

00:25:49,530 --> 00:25:47,920

to say that many of those who are making

587

00:25:51,750 --> 00:25:49,540

that argument are actually working for

588

00:25:53,700 --> 00:25:51,760

the fossil fuel industry and and are

589

00:25:56,100 --> 00:25:53,710

truly getting paid a lot of money to

590

00:25:58,380 --> 00:25:56,110

discredit the science where scientists

591

00:26:00,120 --> 00:25:58,390

like myself our grant money doesn't go

592

00:26:02,070 --> 00:26:00,130

to our pockets it goes to fund our

593

00:26:04,160 --> 00:26:02,080

research programs our graduate students

594

00:26:07,260 --> 00:26:04,170

etc and so there's this misconception

595

00:26:09,900 --> 00:26:07,270

about you know what it is first of all

596

00:26:12,270 --> 00:26:09,910

that motivates scientists another sort

597

00:26:14,070 --> 00:26:12,280

of part of that is this idea that we're

598

00:26:17,250 --> 00:26:14,080

all agreeing with each other and

599

00:26:19,440 --> 00:26:17,260

promoting this myth of climate change to

600

00:26:21,300 --> 00:26:19,450

bring in the grant money to to get the

601

00:26:23,640 --> 00:26:21,310

publication's when it's just the

602

00:26:26,460 --> 00:26:23,650

opposite in fact as a scientist the way

603

00:26:28,560 --> 00:26:26,470

you get ahead is by finding something

604

00:26:30,360 --> 00:26:28,570

new by proving everyone else wrong not

605

00:26:32,370 --> 00:26:30,370

by agreeing with what was already known

606

00:26:33,660 --> 00:26:32,380

that's not interesting and the question

607

00:26:35,370 --> 00:26:33,670

I've been asking everyone is why do you

608

00:26:37,110 --> 00:26:35,380

think people how slow to accept this

609

00:26:39,330 --> 00:26:37,120

data and the news why do you think they

610

00:26:41,670 --> 00:26:39,340

don't want to look at it or agree with

611

00:26:43,290 --> 00:26:41,680

it well I think their variety of reasons

612

00:26:45,420 --> 00:26:43,300

you know there are a lot of good folks

613

00:26:46,800 --> 00:26:45,430

out there well-meaning folks who have

614

00:26:49,290 --> 00:26:46,810

been exposed to a lot of misinformation

615

00:26:53,130 --> 00:26:49,300

and and some of that misinformation

616

00:26:55,470 --> 00:26:53,140

comes from media outlets that are sort

617

00:26:57,360 --> 00:26:55,480

of really sort of doing the bidding of

618

00:26:59,700 --> 00:26:57,370

fossil fuel interests and spreading

619

00:27:01,350 --> 00:26:59,710

doubt and confusion and so people are

620

00:27:03,390 --> 00:27:01,360

susceptible to that and people are

621

00:27:06,000 --> 00:27:03,400

victims of that you know misinformation

622

00:27:08,670 --> 00:27:06,010

and disinformation that's why it's so

623

00:27:10,140 --> 00:27:08,680

important for you know scientists to be

624

00:27:12,390 --> 00:27:10,150

out there trying to communicate to the

625

00:27:14,850 --> 00:27:12,400

public that's why I enjoy speaking to

626
00:27:16,740 --> 00:27:14,860
skeptics because true skeptics true

627
00:27:19,110 --> 00:27:16,750
skepticism is a very good thing in

628
00:27:22,190 --> 00:27:19,120
science and we have to reclaim that term

629
00:27:24,020 --> 00:27:22,200
from some who try to appropriate it

630
00:27:25,490 --> 00:27:24,030
you know for other purposes and you'll

631
00:27:27,110 --> 00:27:25,500
give us the great raw data but do you

632
00:27:28,820 --> 00:27:27,120
think the engineers can pull us out of

633
00:27:30,260 --> 00:27:28,830
this and make some scientific thing

634
00:27:32,150 --> 00:27:30,270
that's going to help us and get us out

635
00:27:33,890 --> 00:27:32,160
of it even faster well you know it's not

636
00:27:35,570 --> 00:27:33,900
rocket science as I like to say the

637
00:27:38,000 --> 00:27:35,580
solution to this problem is right in

638
00:27:39,050 --> 00:27:38,010

front of us here in Australia just look

639

00:27:41,120 --> 00:27:39,060

out your window

640

00:27:43,100 --> 00:27:41,130

you've got wind you've got Sun you've

641

00:27:45,860 --> 00:27:43,110

got all of the resources that you need

642

00:27:48,050 --> 00:27:45,870

to rebuild this economy to lead the

643

00:27:50,150 --> 00:27:48,060

world and it's crazy well unfortunately

644

00:27:52,190 --> 00:27:50,160

found the coal force unfortunately

645

00:27:54,320 --> 00:27:52,200

that's right and it's sort of crazy now

646

00:27:57,290 --> 00:27:54,330

that we're doubling down and coal and

647

00:27:59,420 --> 00:27:57,300

natural gas when you've got this amazing

648

00:28:00,770 --> 00:27:59,430

resource in Australia it really could be

649

00:28:02,960 --> 00:28:00,780

leading the world when it comes to clean

650

00:28:04,220 --> 00:28:02,970

energy and I hope they will thank you

651
00:28:04,580 --> 00:28:04,230
very much and enjoy your time with us

652
00:28:07,850 --> 00:28:04,590
tonight

653
00:28:09,530 --> 00:28:07,860
thank you thank you well he would

654
00:28:11,440 --> 00:28:09,540
someone who's just a who looked

655
00:28:15,380 --> 00:28:11,450
Americans listen here's a guy who was

656
00:28:17,060 --> 00:28:15,390
primary health care a user paid Medicare

657
00:28:18,530 --> 00:28:17,070
for all it's what you you experienced

658
00:28:20,030 --> 00:28:18,540
here the Australian version of it didn't

659
00:28:21,500 --> 00:28:20,040
you absolutely actually and it worked

660
00:28:23,450 --> 00:28:21,510
out quite well yeah that's good I'm

661
00:28:24,800 --> 00:28:23,460
alive yeah good work yeah had a burst

662
00:28:26,420 --> 00:28:24,810
appendix and look we're glad you're

663
00:28:27,950 --> 00:28:26,430

feeling up and about Tim thank you very

664

00:28:29,000 --> 00:28:27,960

much mate it's good to be here they're

665

00:28:32,000 --> 00:28:29,010

gonna do a story on a better for the

666

00:28:33,560 --> 00:28:32,010

magazine no I haven't got many good

667

00:28:34,850 --> 00:28:33,570

photos that's the trouble actually and I

668

00:28:37,430 --> 00:28:34,860

don't let you have your little appendix

669

00:28:39,200 --> 00:28:37,440

back these days well since yours first I

670

00:28:40,850 --> 00:28:39,210

imagine it wouldn't be worth having they

671

00:28:44,450 --> 00:28:40,860

had to dispose of them all the little

672

00:28:44,900 --> 00:28:44,460

body parts it's good to see you fit here

673

00:28:47,000 --> 00:28:44,910

tonight

674

00:28:48,920 --> 00:28:47,010

now Michael and man is our guest here

675

00:28:50,600 --> 00:28:48,930

tonight climatologist and geophysicist

676
00:28:52,520 --> 00:28:50,610
who as I've been looking at his record

677
00:28:54,170 --> 00:28:52,530
it looks like he was pretty much not

678
00:28:55,670 --> 00:28:54,180
going anywhere for about 11 years while

679
00:28:57,500 --> 00:28:55,680
he was studying he did that he's done a

680
00:28:59,870 --> 00:28:57,510
lot of study this guy he has actually

681
00:29:01,250 --> 00:28:59,880
yes and I'm gonna be asking him and

682
00:29:02,840 --> 00:29:01,260
everyone around here tonight why do you

683
00:29:05,210 --> 00:29:02,850
think people are slow to accept the

684
00:29:06,740 --> 00:29:05,220
climate change news that the climate may

685
00:29:08,510 --> 00:29:06,750
be changing that carbon dioxide is

686
00:29:10,400 --> 00:29:08,520
affecting things why do you think people

687
00:29:11,360 --> 00:29:10,410
are slow to accept that I think there's

688
00:29:13,310 --> 00:29:11,370

probably a whole range of reasons

689

00:29:16,330 --> 00:29:13,320

actually there and I think most on

690

00:29:19,040 --> 00:29:16,340

aren't very scientific there is a

691

00:29:20,990 --> 00:29:19,050

distrust of scientists in some circles

692

00:29:22,790 --> 00:29:21,000

there people sort of say scientists

693

00:29:24,200 --> 00:29:22,800

developed the bomb and scientists did

694

00:29:26,680 --> 00:29:24,210

this and scientists did that so why

695

00:29:28,810 --> 00:29:26,690

should we trust scientists

696

00:29:30,910 --> 00:29:28,820

we should but the other issue is that a

697

00:29:33,160 --> 00:29:30,920

lot of people find that the what's

698

00:29:35,860 --> 00:29:33,170

involved in dealing with climate change

699

00:29:38,230 --> 00:29:35,870

is actually a bit of an athame

700

00:29:41,470 --> 00:29:38,240

to their politics because climate change

701
00:29:43,420 --> 00:29:41,480
involves two things and government

702
00:29:45,940 --> 00:29:43,430
action is a big part of it or should be

703
00:29:47,560 --> 00:29:45,950
a big part of it and global action is a

704
00:29:49,930 --> 00:29:47,570
big part of it and anyone on a fairly

705
00:29:52,570 --> 00:29:49,940
conservative political bent because both

706
00:29:54,220 --> 00:29:52,580
of those things are horror globalism is

707
00:29:56,020 --> 00:29:54,230
something they was or we can't have that

708
00:29:58,690 --> 00:29:56,030
that's one world government bla bla bla

709
00:30:00,970 --> 00:29:58,700
and government interference is socialism

710
00:30:02,470 --> 00:30:00,980
as they would say in America anything

711
00:30:04,360 --> 00:30:02,480
like that so I think there's a political

712
00:30:05,830 --> 00:30:04,370
aspect to it that turns we block which

713
00:30:09,480 --> 00:30:05,840

is why the vast majority of climate

714

00:30:12,610 --> 00:30:09,490

change deniers on the right wing of

715

00:30:14,920 --> 00:30:12,620

political agendas not to say by any

716

00:30:17,080 --> 00:30:14,930

means that all those who support climate

717

00:30:18,940 --> 00:30:17,090

changes are on the Left there are many

718

00:30:21,700 --> 00:30:18,950

many organizations you'd hardly call

719

00:30:24,670 --> 00:30:21,710

left-leaning socialists who support the

720

00:30:26,320 --> 00:30:24,680

idea of climate change so do you think

721

00:30:27,370 --> 00:30:26,330

it said that people so that gets back to

722

00:30:29,470 --> 00:30:27,380

people just don't want things to change

723

00:30:31,630 --> 00:30:29,480

and it goes against what they're doing

724

00:30:33,130 --> 00:30:31,640

now yeah I think so I think yeah sort of

725

00:30:34,930 --> 00:30:33,140

change is a hard thing to cope with but

726

00:30:36,790 --> 00:30:34,940

there weren't many people some people

727

00:30:38,080 --> 00:30:36,800

find it thrilling that I think a lot of

728

00:30:40,240 --> 00:30:38,090

people find it very daunting and

729

00:30:42,310 --> 00:30:40,250

worrying especially if you're older I

730

00:30:43,990 --> 00:30:42,320

know when flares went out you were

731

00:30:45,250 --> 00:30:44,000

devastated I was horrified yes

732

00:30:46,480 --> 00:30:45,260

especially the little bits of material

733

00:30:52,450 --> 00:30:46,490

you put around the bottom the flares

734

00:30:53,680 --> 00:30:52,460

once they shrunk yes and may not have

735

00:30:56,110 --> 00:30:53,690

learned a valuable lesson this immunity

736

00:30:59,080 --> 00:30:56,120

I think also to be more serious though

737

00:31:03,460 --> 00:30:59,090

right now sorry they're people who

738

00:31:06,610 --> 00:31:03,470

reject climate change on a political

739

00:31:08,440 --> 00:31:06,620

level nor financial social will also

740

00:31:10,720 --> 00:31:08,450

find that they will try and find science

741

00:31:12,310 --> 00:31:10,730

to match and I've been approached many

742

00:31:14,680 --> 00:31:12,320

many many times by people who are

743

00:31:16,420 --> 00:31:14,690

criticizing me and escape leaks and

744

00:31:18,130 --> 00:31:16,430

casting all sorts of aspersions and

745

00:31:20,030 --> 00:31:18,140

quite frankly most of the evidence of

746

00:31:22,850 --> 00:31:20,040

who put forward is

747

00:31:25,850 --> 00:31:22,860

poor and actually easily debunked like

748

00:31:27,260 --> 00:31:25,860

about 30 seconds debunking and I find

749

00:31:28,540 --> 00:31:27,270

that quite depressing that I would

750

00:31:33,050 --> 00:31:28,550

rather have something more formidable

751

00:31:36,230 --> 00:31:33,060

and less vitriolic and political to deal

752

00:31:37,400 --> 00:31:36,240

with I think you've got summed it up

753

00:31:39,470 --> 00:31:37,410

probably everyone's gonna tell me

754

00:31:40,850 --> 00:31:39,480

another version of that argument all

755

00:31:41,600 --> 00:31:40,860

nights and I think it's even good to see

756

00:31:44,570 --> 00:31:41,610

up and around again

757

00:31:45,830 --> 00:31:44,580

thanks man well they had it with dr.

758

00:31:47,270 --> 00:31:45,840

Mann who may not hear and I'm big

759

00:31:48,830 --> 00:31:47,280

skeptical night they've got a dinner

760

00:31:50,300 --> 00:31:48,840

coming up sometime in the future and who

761

00:31:52,460 --> 00:31:50,310

knows that will be it's been a big night

762

00:31:54,020 --> 00:31:52,470

I think as we can all agree

763

00:31:55,670 --> 00:31:54,030

climate change has really been the

764

00:31:57,260 --> 00:31:55,680

winner tonight but skepticism and

765

00:31:58,640 --> 00:31:57,270

critical thinking has been the winner on

766

00:31:59,870 --> 00:31:58,650

the night I've got to go off and get on

767

00:32:01,400 --> 00:31:59,880

a float now and the Sydney gay and

768

00:32:03,080 --> 00:32:01,410

lesbian Mardi Gras I've got a party to

769

00:32:04,940 --> 00:32:03,090

join with several ten thousands of my

770

00:32:07,100 --> 00:32:04,950

friends so I'll see you later

771

00:32:25,539 --> 00:32:07,110

happy Mardi Gras everybody climate

772

00:32:29,389 --> 00:32:28,039

today this is dr. Karl Karl Chris must

773

00:32:31,519 --> 00:32:29,399

be proud to be a skeptic and you can

774

00:32:36,770 --> 00:32:31,529

find out more about me at dr. Karl calm

775

00:33:01,610 --> 00:32:59,680

[Music]

776

00:33:04,400 --> 00:33:01,620

logical fallacies

777

00:33:07,530 --> 00:33:04,410

[Music]

778

00:33:09,600 --> 00:33:07,540

what are the logical fallacies and why

779

00:33:11,910 --> 00:33:09,610

is it important that critical thinkers

780

00:33:14,640 --> 00:33:11,920

should know about them

781

00:33:17,670 --> 00:33:14,650

a logical fallacy is an error we can

782

00:33:19,920 --> 00:33:17,680

make in reasoning but it usually crops

783

00:33:23,670 --> 00:33:19,930

up when we are discussing or arguing our

784

00:33:26,100 --> 00:33:23,680

point of view some people might even

785

00:33:27,810 --> 00:33:26,110

knowingly use them to try and score

786

00:33:31,710 --> 00:33:27,820

cheap points in an argument

787

00:33:34,260 --> 00:33:31,720

due to intellectual laziness they are

788

00:33:36,510 --> 00:33:34,270

traps we can fall into but if we know

789

00:33:38,820 --> 00:33:36,520

what to look out for we can spot them

790

00:33:41,340 --> 00:33:38,830

when they occur and stop ourselves from

791

00:33:45,440 --> 00:33:41,350

using them

792

00:33:48,420 --> 00:33:45,450

[Music]

793

00:33:52,950 --> 00:33:48,430

this week we'll look at the appeal to

794

00:33:55,500 --> 00:33:52,960

popularity also known as being on the

795

00:33:57,660 --> 00:33:55,510

bandwagon this is when you try to add

796

00:34:01,260 --> 00:33:57,670

weight to your point of view by pointing

797

00:34:03,270 --> 00:34:01,270

out that many people also agree with you

798

00:34:06,800 --> 00:34:03,280

we've all seen this sort of thing

799

00:34:09,360 --> 00:34:06,810

especially from advertisers who claim

800

00:34:12,330 --> 00:34:09,370

thousands of people use our product

801

00:34:16,230 --> 00:34:12,340

every day and they all can't be wrong

802

00:34:19,500 --> 00:34:16,240

well yes the product might work and be

803

00:34:23,220 --> 00:34:19,510

wonderful but at other times thousands

804

00:34:27,480 --> 00:34:23,230

of people can indeed be wrong everyone

805

00:34:30,180 --> 00:34:27,490

at school has one come on I really need

806

00:34:32,159 --> 00:34:30,190

this maybe you remember making this

807

00:34:35,460 --> 00:34:32,169

argument to your parents when you were

808

00:34:39,030 --> 00:34:35,470

at school something would come along a

809

00:34:43,020 --> 00:34:39,040

new toy or device maybe and it becomes

810

00:34:47,460 --> 00:34:43,030

very popular suddenly you having one as

811

00:34:50,940 --> 00:34:47,470

well is very important whatever it is

812

00:34:54,810 --> 00:34:50,950

might not really be that good but its

813

00:34:56,490 --> 00:34:54,820

popularity makes it desirable all my

814

00:34:59,640 --> 00:34:56,500

friends use homeopathy to treat

815

00:35:03,060 --> 00:34:59,650

everything from rash to insomnia this

816

00:35:07,550 --> 00:35:03,070

discredited medical quackery simply does

817

00:35:09,960 --> 00:35:07,560

not and cannot work as claimed yet

818

00:35:13,920 --> 00:35:09,970

thousands and thousands of people all

819

00:35:16,800 --> 00:35:13,930

over the world swear by it just because

820

00:35:19,800 --> 00:35:16,810

some or many people use a product or

821

00:35:24,360 --> 00:35:19,810

believe in something it doesn't mean it

822

00:35:26,940 --> 00:35:24,370

works or it's real if one person can be

823

00:35:31,590 --> 00:35:26,950

wrong about something then hundreds or

824

00:35:33,870 --> 00:35:31,600

thousands or millions can be as well by

825

00:35:36,360 --> 00:35:33,880

far the majority of climate scientists

826

00:35:40,160 --> 00:35:36,370

agree that climate change is real and

827

00:35:43,140 --> 00:35:40,170

humans are a major contributing factor

828

00:35:46,680 --> 00:35:43,150

now here's the flipside of this logical

829

00:35:50,850 --> 00:35:46,690

fallacy sometimes the weight of opinion

830

00:35:54,030 --> 00:35:50,860

is Right science can and does change its

831

00:35:57,420 --> 00:35:54,040

mind but it relies largely on consensus

832

00:35:58,550 --> 00:35:57,430

in other words on the conclusion of most

833

00:36:04,280 --> 00:35:58,560

scientists in

834

00:36:06,710 --> 00:36:04,290

area of study in the end the popularity

835

00:36:09,860 --> 00:36:06,720

of an idea should not determine the

836

00:36:12,410 --> 00:36:09,870

validity of that idea and must stand or

837

00:36:14,270 --> 00:36:12,420

fall on its own merits but it is

838

00:36:20,450 --> 00:36:14,280

appealing to think that if many people

839

00:36:25,520 --> 00:36:22,810

[Music]

840

00:36:27,980 --> 00:36:25,530

knowing a logical fallacy when you hear

841

00:36:30,350 --> 00:36:27,990

one and even knowing its name is

842

00:36:34,040 --> 00:36:30,360

important when arguing your point of

843

00:36:36,860 --> 00:36:34,050

view however you may come across as

844

00:36:39,440 --> 00:36:36,870

arrogant and not get very far if you

845

00:36:43,190 --> 00:36:39,450

call it out by name to your opponent

846

00:36:45,500 --> 00:36:43,200

when you hear it being used if your

847

00:36:48,050 --> 00:36:45,510

opponent calls you out for using one

848

00:36:51,920 --> 00:36:48,060

it's time to stop and think about how

849

00:36:54,230 --> 00:36:51,930

you are making your case use your

850

00:36:57,530 --> 00:36:54,240

knowledge of logical fallacies wisely

851
00:36:59,810 --> 00:36:57,540
and remember that even if your point of

852
00:37:02,840 --> 00:36:59,820
view is right and you know all the

853
00:37:06,350 --> 00:37:02,850
pitfalls in arguing your case it doesn't

854
00:37:09,740 --> 00:37:06,360
always mean you'll win on the day and a

855
00:37:15,530 --> 00:37:09,750
skeptics we must also remember that we

856
00:37:18,200 --> 00:37:15,540
too can be wrong at times I'm sure

857
00:37:27,140 --> 00:37:18,210
because my from the VEX skeptics thanks

858
00:37:36,350 --> 00:37:32,800
[Music]

859
00:37:38,540 --> 00:37:36,360
upcoming events at Canberra the Canberra

860
00:37:41,320 --> 00:37:38,550
skeptics proudly present winning

861
00:37:45,020 --> 00:37:41,330
restaurants how the game of thrones

862
00:37:47,390 --> 00:37:45,030
explains modern military conflict now

863
00:37:51,790 --> 00:37:47,400

this will be Friday the 13th of March

864

00:37:54,410 --> 00:37:51,800

from 6 p.m. and the speaker is Mick cook

865

00:37:56,870 --> 00:37:54,420

set in the fictitious world of race or

866

00:37:58,040 --> 00:37:56,880

us the hit television series Game of

867

00:38:00,050 --> 00:37:58,050

Thrones

868

00:38:02,300 --> 00:38:00,060

chronicles the bitter and violent

869

00:38:04,550 --> 00:38:02,310

struggle between the realms of noble

870

00:38:07,430 --> 00:38:04,560

dynasties for control of the Seven

871

00:38:10,430 --> 00:38:07,440

Kingdoms myself dramatic but this

872

00:38:12,830 --> 00:38:10,440

beloved fantasy drama has just as much

873

00:38:16,010 --> 00:38:12,840

to say about successful strategies as

874

00:38:20,540 --> 00:38:16,020

real-life warfare waged in our time and

875

00:38:23,450 --> 00:38:20,550

place winning Westeros brings together

876

00:38:26,570 --> 00:38:23,460

more than 30 of today's top military and

877

00:38:29,410 --> 00:38:26,580

strategic experts including generals and

878

00:38:31,420 --> 00:38:29,420

admirals policy advisors

879

00:38:33,980 --> 00:38:31,430

counterinsurgency tactician 'he's

880

00:38:36,020 --> 00:38:33,990

science fiction and fantasy writers and

881

00:38:39,590 --> 00:38:36,030

ground-level military officers to

882

00:38:43,580 --> 00:38:39,600

explain the strategy and art of war by

883

00:38:45,800 --> 00:38:43,590

way of the game of thrones saga now that

884

00:38:48,970 --> 00:38:45,810

sounds like a fascinating event the cost

885

00:38:51,980 --> 00:38:48,980

is free and that will be at the

886

00:38:55,640 --> 00:38:51,990

Belconnen Community Service which is in

887

00:38:59,480 --> 00:38:55,650

the Belconnen the camera and coming up

888

00:39:03,590 --> 00:38:59,490

in April overview of rands truth decay

889

00:39:05,720 --> 00:39:03,600

initiative 16th of April and that will

890

00:39:09,020 --> 00:39:05,730

be at the same venue the Belconnen

891

00:39:12,140 --> 00:39:09,030

community service and the speaker is dr.

892

00:39:14,390 --> 00:39:12,150

Karl Rhodes over the past two decades

893

00:39:16,010 --> 00:39:14,400

national political and civil discourse

894

00:39:19,280 --> 00:39:16,020

in the United States has been

895

00:39:21,400 --> 00:39:19,290

characterized by truth decay

896

00:39:25,330 --> 00:39:21,410

Carl will provide an overview of

897

00:39:29,000 --> 00:39:25,340

Jennifer Kavanaugh's and Michael riches

898

00:39:31,250 --> 00:39:29,010

2018 report defining an examining truth

899

00:39:33,320 --> 00:39:31,260

decay and provide information about

900

00:39:35,330 --> 00:39:33,330

continuing to work on the topic and

901
00:39:37,490 --> 00:39:35,340
those events are coming up for the

902
00:39:40,070 --> 00:39:37,500
Canberra skeptics if you wish to attend

903
00:39:57,050 --> 00:39:40,080
I will add a link in this week's show

904
00:40:07,520 --> 00:39:57,060
notes it's the raw skeptic reporting

905
00:40:09,730 --> 00:40:07,530
with Heidi Robertson hello everyone

906
00:40:13,580 --> 00:40:09,740
Heidi Robertson from the Northern Rivers

907
00:40:16,970 --> 00:40:13,590
vaccination supporters we are very lucky

908
00:40:20,540 --> 00:40:16,980
this week to have dr. sue page joining

909
00:40:22,790 --> 00:40:20,550
us dr. page is a nationally recognized

910
00:40:24,890 --> 00:40:22,800
leader in Australia's primary care

911
00:40:28,570 --> 00:40:24,900
sector with experience in medical

912
00:40:31,250 --> 00:40:28,580
education workforce and rural health

913
00:40:34,730 --> 00:40:31,260

she's a former president of the rural

914

00:40:37,460 --> 00:40:34,740

doctors Association of Australia and has

915

00:40:40,940 --> 00:40:37,470

held state and federal ministerial

916

00:40:43,700 --> 00:40:40,950

advisory roles in multiple areas she has

917

00:40:46,960 --> 00:40:43,710

many years of experience as a rural GP

918

00:40:50,270 --> 00:40:46,970

as well as working in remote northern

919

00:40:53,690 --> 00:40:50,280

territory Christmas Island and Manus

920

00:40:55,460 --> 00:40:53,700

Island detention centres she has been

921

00:40:57,680 --> 00:40:55,470

awarded membership of the Order of

922

00:41:00,430 --> 00:40:57,690

Australia in recognition of her service

923

00:41:03,050 --> 00:41:00,440

to medicine and to the community

924

00:41:05,180 --> 00:41:03,060

currently she is director for medical

925

00:41:08,510 --> 00:41:05,190

services in a Regional Hospital here in

926

00:41:10,760 --> 00:41:08,520

Australia I got to know sue personally

927

00:41:14,990 --> 00:41:10,770

through my workers in a vaccination

928

00:41:17,060 --> 00:41:15,000

advocate and she has been right behind

929

00:41:20,180 --> 00:41:17,070

us the Northern Rivers vaccination

930

00:41:24,230 --> 00:41:20,190

supporters from the start I still hear

931

00:41:27,230 --> 00:41:24,240

her in my ears most weeks on ABC local

932

00:41:30,710 --> 00:41:27,240

radio where she has a guest spot called

933

00:41:32,280 --> 00:41:30,720

Paige the doctor talking all things

934

00:41:36,120 --> 00:41:32,290

medical

935

00:41:42,000 --> 00:41:36,130

and most importantly she is an all-round

936

00:41:45,540 --> 00:41:42,010

awesome human being so thank you very

937

00:41:47,850 --> 00:41:45,550

much for joining us dr. sue Paige good

938

00:41:53,040 --> 00:41:47,860

morning Heidi we're talking on Friday

939

00:41:55,530 --> 00:41:53,050

the 6th of March so by the time this

940

00:41:57,570 --> 00:41:55,540

goes out to listeners and by the time

941

00:42:01,110 --> 00:41:57,580

listeners actually download the show and

942

00:42:03,800 --> 00:42:01,120

listen to this episode no doubt there'll

943

00:42:07,880 --> 00:42:03,810

be many more updates on this ever

944

00:42:11,370 --> 00:42:07,890

evolving situation with Co fad 19

945

00:42:14,010 --> 00:42:11,380

coronavirus so we're just going to chat

946

00:42:16,940 --> 00:42:14,020

about what has been going on up until

947

00:42:19,860 --> 00:42:16,950

this point I'd like to start with how

948

00:42:23,850 --> 00:42:19,870

how worried do you think people should

949

00:42:26,250 --> 00:42:23,860

be let's just compare it say to seasonal

950

00:42:29,220 --> 00:42:26,260

influenza which as we know infects

951
00:42:31,530 --> 00:42:29,230
thousands of people Australians every

952
00:42:33,780 --> 00:42:31,540
year and depending on the year hundreds

953
00:42:35,610 --> 00:42:33,790
of people can even die from seasonal

954
00:42:38,160 --> 00:42:35,620
influenza how concerned should we be

955
00:42:41,070 --> 00:42:38,170
about this cope at 19 in comparison to

956
00:42:43,730 --> 00:42:41,080
say influenza and I guess the first

957
00:42:46,200 --> 00:42:43,740
thing to say is it's very hard to put

958
00:42:47,730 --> 00:42:46,210
coronaviruses and influenza head to air

959
00:42:51,870 --> 00:42:47,740
and the biggest difference that we see

960
00:42:53,580 --> 00:42:51,880
there is that influenza is well on

961
00:42:56,240 --> 00:42:53,590
everybody's radar every year we're

962
00:42:58,890 --> 00:42:56,250
developing a slightly new variation of

963
00:43:01,110 --> 00:42:58,900

vaccine the vast majority of people who

964

00:43:03,450 --> 00:43:01,120

are at risk of influenza are treated

965

00:43:05,370 --> 00:43:03,460

with vaccination and so though we say

966

00:43:07,110 --> 00:43:05,380

that each year they're about 3,000

967

00:43:09,690 --> 00:43:07,120

deaths per year in Australia for example

968

00:43:11,670 --> 00:43:09,700

it's very hard to extrapolate that data

969

00:43:12,660 --> 00:43:11,680

with what's likely to happen with

970

00:43:15,780 --> 00:43:12,670

coronavirus

971

00:43:18,390 --> 00:43:15,790

corona viruses are a large family of

972

00:43:20,250 --> 00:43:18,400

viruses that can cause a variety of

973

00:43:22,650 --> 00:43:20,260

illnesses that range from through your

974

00:43:24,720 --> 00:43:22,660

head colds right through to more severe

975

00:43:28,110 --> 00:43:24,730

diseases like Middle East respiratory

976

00:43:30,330 --> 00:43:28,120

syndrome which is MERS or severe acute

977

00:43:33,480 --> 00:43:30,340

respiratory syndrome which is sighs and

978

00:43:34,020 --> 00:43:33,490

I guess if you were going to compare

979

00:43:38,830 --> 00:43:34,030

those

980

00:43:43,270 --> 00:43:38,840

illnesses to be influenza family which

981

00:43:48,150 --> 00:43:43,280

are things like the h1n1 pandemic that

982

00:43:52,270 --> 00:43:48,160

happened in 1918 or the more recent h1n1

983

00:43:55,930 --> 00:43:52,280

influenza that happened in the in the

984

00:43:58,480 --> 00:43:55,940

sort of late 2000s a 2009 they which was

985

00:44:00,099 --> 00:43:58,490

swine flu so we were going to compare it

986

00:44:02,470 --> 00:44:00,109

to the employers that are at that more

987

00:44:04,630 --> 00:44:02,480

serious range probably the one to think

988

00:44:08,700 --> 00:44:04,640

about it would be the h1n1 pandemic

989

00:44:13,090 --> 00:44:08,710

which was 1918 because that one had

990

00:44:15,010 --> 00:44:13,100

similar fatality rates per percentage of

991

00:44:18,700 --> 00:44:15,020

people infected to what the early

992

00:44:21,400 --> 00:44:18,710

reports of Corona were so our our most

993

00:44:23,410 --> 00:44:21,410

important mainstay for any of these

994

00:44:24,670 --> 00:44:23,420

viral illnesses is vaccination and not

995

00:44:26,680 --> 00:44:24,680

getting the illness in the first place

996

00:44:28,810 --> 00:44:26,690

and this particular virus hasn't been

997

00:44:31,030 --> 00:44:28,820

around for long enough for us to be able

998

00:44:33,670 --> 00:44:31,040

to identify specific components within

999

00:44:35,470 --> 00:44:33,680

it to make a vaccine and to then get the

1000

00:44:37,359 --> 00:44:35,480

vaccine tested and then distributed

1001
00:44:38,770 --> 00:44:37,369
across a wide apart population that's

1002
00:44:41,500 --> 00:44:38,780
why this is a bit a bit of an unknown

1003
00:44:43,840 --> 00:44:41,510
feast the vast majority of people who

1004
00:44:44,980 --> 00:44:43,850
catch the loner virus have either no

1005
00:44:48,190 --> 00:44:44,990
symptoms at all

1006
00:44:49,750 --> 00:44:48,200
or have very mild symptoms so of the

1007
00:44:52,210 --> 00:44:49,760
people who are testing positive about

1008
00:44:53,650 --> 00:44:52,220
80% are having a mile of course and

1009
00:44:56,620 --> 00:44:53,660
obviously there's a whole lot of people

1010
00:44:58,120 --> 00:44:56,630
but thinking that maybe they just got a

1011
00:45:00,970 --> 00:44:58,130
head cold and they're not even getting

1012
00:45:03,070 --> 00:45:00,980
tested in the first place with captive

1013
00:45:05,080 --> 00:45:03,080

populations where we actually say okay

1014

00:45:06,520 --> 00:45:05,090

well we know that we've got a person

1015

00:45:08,200 --> 00:45:06,530

who's infected definitely in this

1016

00:45:09,640 --> 00:45:08,210

subgroup so we're going to test

1017

00:45:12,400 --> 00:45:09,650

everybody whether or not they've got

1018

00:45:15,040 --> 00:45:12,410

symptoms and an example there is people

1019

00:45:16,300 --> 00:45:15,050

on the cruise ship for example so with

1020

00:45:19,150 --> 00:45:16,310

the first cruise ship that had

1021

00:45:21,640 --> 00:45:19,160

contamination 38% of the cruise ship

1022

00:45:24,040 --> 00:45:21,650

ended up being infected but they were

1023

00:45:27,820 --> 00:45:24,050

people who are in close contact for a

1024

00:45:30,849 --> 00:45:27,830

prolonged period of time kind of like an

1025

00:45:32,740 --> 00:45:30,859

artificial situation if you like so so

1026

00:45:35,140 --> 00:45:32,750

we've probably got an effectively rage

1027

00:45:38,170 --> 00:45:35,150

that's somewhere around that you might

1028

00:45:40,140 --> 00:45:38,180

infect two or three people right up to

1029

00:45:41,670 --> 00:45:40,150

in close contact

1030

00:45:43,830 --> 00:45:41,680

you can infect half of the people that

1031

00:45:46,020 --> 00:45:43,840

you hang around with that's a really

1032

00:45:49,470 --> 00:45:46,030

broad range what is that going to look

1033

00:45:51,600 --> 00:45:49,480

like in the future I probably want to be

1034

00:45:54,650 --> 00:45:51,610

the interesting sights if somebody wants

1035

00:45:58,410 --> 00:45:54,660

to have a look at it is world o meters

1036

00:46:00,870 --> 00:45:58,420

info forward slash Perona virus so this

1037

00:46:02,850 --> 00:46:00,880

is a live site that tells you where

1038

00:46:06,720 --> 00:46:02,860

we're up to and the most recent update

1039

00:46:11,030 --> 00:46:06,730

for example is at 1:55 this morning GMT

1040

00:46:14,640 --> 00:46:11,040

and at that time there were 98 thousand

1041

00:46:18,960 --> 00:46:14,650

420 coronavirus cases in the world now

1042

00:46:21,300 --> 00:46:18,970

death rate again is varying enormous by

1043

00:46:23,540 --> 00:46:21,310

country so across the whole batch of

1044

00:46:26,130 --> 00:46:23,550

everybody that we now know is positive

1045

00:46:28,650 --> 00:46:26,140

the vast majority have recovered without

1046

00:46:30,090 --> 00:46:28,660

there being a problem three thousand

1047

00:46:32,430 --> 00:46:30,100

three hundred and eighty-five people

1048

00:46:37,740 --> 00:46:32,440

have died which puts the death rate at

1049

00:46:41,550 --> 00:46:37,750

about 0.03 percent and we're a lot of

1050

00:46:43,830 --> 00:46:41,560

steroids yeah yeah the the scary thing

1051
00:46:46,260 --> 00:46:43,840
for me about coronavirus is at the

1052
00:46:48,240 --> 00:46:46,270
average length of takes a length of time

1053
00:46:49,890 --> 00:46:48,250
that somebody is requiring to be on a

1054
00:46:53,910 --> 00:46:49,900
ventilator once they've reached that

1055
00:46:55,500 --> 00:46:53,920
stage is about 20 days Wow so if you

1056
00:46:57,780 --> 00:46:55,510
think about the number of intensive care

1057
00:46:59,910 --> 00:46:57,790
beds that we had across any nation and

1058
00:47:02,160 --> 00:46:59,920
imagine them filling up with the first

1059
00:47:04,920 --> 00:47:02,170
cohort of people with the severe end of

1060
00:47:07,440 --> 00:47:04,930
coronavirus and then there then there

1061
00:47:09,300 --> 00:47:07,450
for the next three weeks then you can

1062
00:47:10,740 --> 00:47:09,310
imagine a scenario where quite rapidly

1063
00:47:13,770 --> 00:47:10,750

you're running out of intensive care

1064

00:47:15,900 --> 00:47:13,780

beds for people that have motor vehicle

1065

00:47:18,390 --> 00:47:15,910

accident trauma for example or Falls

1066

00:47:20,280 --> 00:47:18,400

from Heights with head injuries and then

1067

00:47:23,130 --> 00:47:20,290

you start to say well how old's the

1068

00:47:24,740 --> 00:47:23,140

health profession deal with this and we

1069

00:47:29,220 --> 00:47:24,750

probably are talking in most countries

1070

00:47:33,060 --> 00:47:29,230

some form of rationing access to our

1071

00:47:35,520 --> 00:47:33,070

intensive care units if if there's an as

1072

00:47:37,170 --> 00:47:35,530

a person over the age of 80 you've

1073

00:47:38,940 --> 00:47:37,180

already signed that advance health care

1074

00:47:40,910 --> 00:47:38,950

directive or a statement of choice

1075

00:47:43,110 --> 00:47:40,920

directive that says you know what I

1076
00:47:44,850 --> 00:47:43,120
really don't want to have a plastic tube

1077
00:47:47,280 --> 00:47:44,860
stuck down my throat with artificial

1078
00:47:47,880 --> 00:47:47,290
life support then now would certainly be

1079
00:47:49,279 --> 00:47:47,890
a time

1080
00:47:51,749 --> 00:47:49,289
filling out the paperwork for that

1081
00:47:53,700 --> 00:47:51,759
because that will certainly make it much

1082
00:47:55,410 --> 00:47:53,710
easier for your family it'll make it

1083
00:47:58,440 --> 00:47:55,420
much easier for the health professionals

1084
00:47:59,910 --> 00:47:58,450
to say okay we'll make you comfortable

1085
00:48:02,430 --> 00:47:59,920
so that you're not going to be

1086
00:48:04,589 --> 00:48:02,440
struggling to breathe but we'll save the

1087
00:48:09,870 --> 00:48:04,599
ventilator for somebody who might be 30

1088
00:48:11,460 --> 00:48:09,880

or 40 and maybe the parent of young

1089

00:48:13,680 --> 00:48:11,470

children you know either infants or

1090

00:48:16,499 --> 00:48:13,690

primary school keys yeah so that's

1091

00:48:21,120 --> 00:48:16,509

something we should I've always been a

1092

00:48:23,069 --> 00:48:21,130

strong advocate of people filling out an

1093

00:48:24,569 --> 00:48:23,079

advanced health care directive not

1094

00:48:26,849 --> 00:48:24,579

waiting until it's absolutely necessary

1095

00:48:28,710 --> 00:48:26,859

to do so because then it might be too

1096

00:48:31,259 --> 00:48:28,720

late and you've got to have the mental

1097

00:48:33,210 --> 00:48:31,269

capacity in which to do it so everyone

1098

00:48:35,789 --> 00:48:33,220

out there if you haven't already done an

1099

00:48:38,489 --> 00:48:35,799

advanced health care directive do it now

1100

00:48:41,370 --> 00:48:38,499

not just because of coronavirus but just

1101

00:48:43,470 --> 00:48:41,380

in general it's a great idea what do you

1102

00:48:47,069 --> 00:48:43,480

recommend the average Joe on the street

1103

00:48:50,579 --> 00:48:47,079

can do in order to prepare for what

1104

00:48:54,059 --> 00:48:50,589

could be quite a burden on our

1105

00:48:54,599 --> 00:48:54,069

healthcare system yeah it's by far and

1106

00:48:56,670 --> 00:48:54,609

away

1107

00:48:58,739 --> 00:48:56,680

that the easiest and most effective way

1108

00:49:01,049 --> 00:48:58,749

to protect yourself is to promote good

1109

00:49:02,640 --> 00:49:01,059

personal hygiene measures so I've kind

1110

00:49:06,660 --> 00:49:02,650

of challenged everybody but in the next

1111

00:49:09,720 --> 00:49:06,670

48 hours just keep a mental tally of how

1112

00:49:11,190 --> 00:49:09,730

many times you touch your face you're

1113

00:49:13,019 --> 00:49:11,200

brushing hair off your face you're

1114

00:49:16,739 --> 00:49:13,029

rubbing the end of your nose you're

1115

00:49:19,620 --> 00:49:16,749

eating I tell you what I tell you what

1116

00:49:22,140 --> 00:49:19,630

the last few days I have been I don't

1117

00:49:24,059 --> 00:49:22,150

know about you but I probably do this

1118

00:49:26,970 --> 00:49:24,069

all the time anyway I've been extra

1119

00:49:29,220 --> 00:49:26,980

aware of that and how many times I

1120

00:49:30,599 --> 00:49:29,230

actually do touch my face even if I've

1121

00:49:33,239 --> 00:49:30,609

got a little tickle on the end of my

1122

00:49:35,430 --> 00:49:33,249

nose and I just I just rub it I'm

1123

00:49:37,829 --> 00:49:35,440

thinking now oh my god do I have to wash

1124

00:49:41,120 --> 00:49:37,839

my hands I think we're all becoming a

1125

00:49:43,829 --> 00:49:41,130

bit more aware which is not a bad thing

1126

00:49:45,420 --> 00:49:43,839

just basic personal hygiene and again

1127

00:49:50,759 --> 00:49:45,430

this is the stuff we should be doing

1128

00:49:53,130 --> 00:49:50,769

every day anyway absolutely and and just

1129

00:49:55,289 --> 00:49:53,140

soap and water washing is actually

1130

00:49:56,730 --> 00:49:55,299

really effective at removing a little

1131

00:49:58,680 --> 00:49:56,740

protein chain

1132

00:50:01,859 --> 00:49:58,690

from your hands if you touch for example

1133

00:50:04,200 --> 00:50:01,869

a handrail at the shopping center that's

1134

00:50:05,850 --> 00:50:04,210

had germs on it nor washing your hands

1135

00:50:07,800 --> 00:50:05,860

will wash those germs away you know

1136

00:50:10,560 --> 00:50:07,810

we've been taught this um is there a

1137

00:50:11,790 --> 00:50:10,570

value in alcohol hand drugs look when

1138

00:50:13,109 --> 00:50:11,800

you've got people who are washing their

1139

00:50:14,850 --> 00:50:13,119

hands multiple times in the hospital

1140

00:50:17,190 --> 00:50:14,860

they've actually done studies and

1141

00:50:19,410 --> 00:50:17,200

they've looked at whether or not people

1142

00:50:21,540 --> 00:50:19,420

effectively use the soap and water and

1143

00:50:23,280 --> 00:50:21,550

then properly dry their hands afterwards

1144

00:50:25,710 --> 00:50:23,290

and the length of time that happens and

1145

00:50:27,720 --> 00:50:25,720

you will actually get less dermatitis

1146

00:50:30,330 --> 00:50:27,730

and greater cleanliness if you're using

1147

00:50:31,710 --> 00:50:30,340

the alcohol hand drugs but working it

1148

00:50:34,680 --> 00:50:31,720

into your fingernails in between your

1149

00:50:36,540 --> 00:50:34,690

fingers legally so that's for people who

1150

00:50:39,420 --> 00:50:36,550

are washing their hands multiple times a

1151
00:50:42,090 --> 00:50:39,430
day for the average person so you know

1152
00:50:44,070 --> 00:50:42,100
soap and water and allowing your hands

1153
00:50:46,500 --> 00:50:44,080
to dry properly before you're touching

1154
00:50:49,590 --> 00:50:46,510
things is probably fine yeah and I've

1155
00:50:51,180 --> 00:50:49,600
heard that whole that not just a really

1156
00:50:54,000 --> 00:50:51,190
quick rinse with soap and water but a

1157
00:50:56,250 --> 00:50:54,010
full twenty seconds they're saying yeah

1158
00:50:57,840 --> 00:50:56,260
and again getting it getting it onto the

1159
00:50:59,130 --> 00:50:57,850
surfaces and the little nooks and

1160
00:51:02,130 --> 00:50:59,140
crannies like ramp like around your

1161
00:51:05,099 --> 00:51:02,140
fingernails yes yeah and if any

1162
00:51:08,310 --> 00:51:05,109
listeners haven't listened yet to the

1163
00:51:10,770 --> 00:51:08,320

report on last week's skeptic zone about

1164

00:51:14,849 --> 00:51:10,780

face masks and the pros and cons Trish

1165

00:51:17,910 --> 00:51:14,859

Han did that well well worth a listen to

1166

00:51:22,560 --> 00:51:17,920

and on that as well sue my husband's a

1167

00:51:28,050 --> 00:51:22,570

builder and he went into a large will no

1168

00:51:30,960 --> 00:51:28,060

known hardware store yesterday and to

1169

00:51:32,790 --> 00:51:30,970

buy his crew some face masks because

1170

00:51:36,960 --> 00:51:32,800

they are doing some concrete cutting at

1171

00:51:39,240 --> 00:51:36,970

the moment and guess what no face masks

1172

00:51:40,859 --> 00:51:39,250

people are going into hardware stores

1173

00:51:43,290 --> 00:51:40,869

now and clearing the shelves of face

1174

00:51:46,770 --> 00:51:43,300

masks so one thing I'd like to recommend

1175

00:51:50,190 --> 00:51:46,780

is that pretty much everybody join flu

1176

00:51:54,300 --> 00:51:50,200

tracking now this is info dot flu

1177

00:51:58,980 --> 00:51:54,310

tracking dotnet this is a site where you

1178

00:52:00,930 --> 00:51:58,990

can log on and it will certainly this is

1179

00:52:02,300 --> 00:52:00,940

for Australia New Zealand I actually

1180

00:52:05,220 --> 00:52:02,310

don't know if it's in other countries

1181

00:52:06,140 --> 00:52:05,230

but it it will send you a reminder once

1182

00:52:07,700 --> 00:52:06,150

a week and you can

1183

00:52:09,620 --> 00:52:07,710

whether or not you've got any symptoms

1184

00:52:11,089 --> 00:52:09,630

and because people are using this on

1185

00:52:13,069 --> 00:52:11,099

their phone and it's bumping up across

1186

00:52:15,349 --> 00:52:13,079

the whole of the country you can start

1187

00:52:17,299 --> 00:52:15,359

to see hotspots of where people are

1188

00:52:18,890 --> 00:52:17,309

starting to become febrile no matter

1189

00:52:20,930 --> 00:52:18,900

what it is you know it might be a head

1190

00:52:23,059 --> 00:52:20,940

cold might be employing so it might be

1191

00:52:25,309 --> 00:52:23,069

coronavirus but at least you can see the

1192

00:52:27,650 --> 00:52:25,319

heat maps developing and that means that

1193

00:52:29,120 --> 00:52:27,660

we can start doing more testing in areas

1194

00:52:31,519 --> 00:52:29,130

that look like they're getting a rapid

1195

00:52:33,739 --> 00:52:31,529

change which is a great public health

1196

00:52:36,680 --> 00:52:33,749

surveillance opportunity one other thing

1197

00:52:39,859 --> 00:52:36,690

that people can do to make sure that

1198

00:52:43,480 --> 00:52:39,869

they are well prepared if is make sure

1199

00:52:46,819 --> 00:52:43,490

that any other illnesses chronic

1200

00:52:48,739 --> 00:52:46,829

illnesses that they have are well

1201
00:52:50,569 --> 00:52:48,749
managed that you've got your scripts

1202
00:52:52,759 --> 00:52:50,579
up-to-date that you've got enough should

1203
00:52:55,430 --> 00:52:52,769
you be quarantined to last you for that

1204
00:52:56,799 --> 00:52:55,440
length of time and and what else with

1205
00:52:59,809 --> 00:52:56,809
regards to that

1206
00:53:00,799 --> 00:52:59,819
well again the key thing the key thing

1207
00:53:03,769 --> 00:53:00,809
we know at this stage is that

1208
00:53:06,380 --> 00:53:03,779
coronavirus is more serious if you are

1209
00:53:08,660 --> 00:53:06,390
older and if you've got comorbidities of

1210
00:53:11,089 --> 00:53:08,670
which the most significant comorbidity

1211
00:53:12,950 --> 00:53:11,099
is cardiovascular disease but also

1212
00:53:16,069 --> 00:53:12,960
things you know diabetes high blood

1213
00:53:18,499 --> 00:53:16,079

pressure and so on so if you are

1214

00:53:20,380 --> 00:53:18,509

somebody who has chronic illnesses for

1215

00:53:22,700 --> 00:53:20,390

which for which you require medication

1216

00:53:25,759 --> 00:53:22,710

now is a time that I would be booking

1217

00:53:28,819 --> 00:53:25,769

yourself it routinely widely fit well to

1218

00:53:31,430 --> 00:53:28,829

go to your your usual can provider in

1219

00:53:33,710 --> 00:53:31,440

Australia that's usually a GP to make

1220

00:53:35,450 --> 00:53:33,720

sure that your illness is optimized as

1221

00:53:37,069 --> 00:53:35,460

much as possible if you are going to

1222

00:53:39,890 --> 00:53:37,079

catch the rotavirus in the future you

1223

00:53:41,420 --> 00:53:39,900

want to be as fit as possible so that

1224

00:53:43,519 --> 00:53:41,430

you are in the good percentage that does

1225

00:53:45,739 --> 00:53:43,529

really well rather than the percentage

1226
00:53:49,420 --> 00:53:45,749
that struggles make sure that you've got

1227
00:53:51,710 --> 00:53:49,430
your scripts up-to-date many many

1228
00:53:53,210 --> 00:53:51,720
particularly rural towns may have

1229
00:53:55,460 --> 00:53:53,220
limited scripts of a particular time

1230
00:53:57,200 --> 00:53:55,470
sometimes people can be found of a

1231
00:53:58,849 --> 00:53:57,210
medication and wait a day or two to get

1232
00:54:00,769 --> 00:53:58,859
into their GP and then another day or

1233
00:54:01,910 --> 00:54:00,779
two to get it to their chemist you don't

1234
00:54:03,680 --> 00:54:01,920
want to have long gaps in your

1235
00:54:06,710 --> 00:54:03,690
medications you want your illness to be

1236
00:54:08,690 --> 00:54:06,720
treated as optimally as possible so make

1237
00:54:11,720 --> 00:54:08,700
sure that everything is on hand now does

1238
00:54:13,460 --> 00:54:11,730

that mean you buy 20 boxes no please you

1239

00:54:15,019 --> 00:54:13,470

know same as soon as one in 20 packets

1240

00:54:16,670 --> 00:54:15,029

of toilet paper you're not going to need

1241

00:54:19,020 --> 00:54:16,680

that much you just want to do the

1242

00:54:20,910 --> 00:54:19,030

routine things but with a bit more

1243

00:54:22,830 --> 00:54:20,920

here that you would normally do don't

1244

00:54:24,690 --> 00:54:22,840

let yourself run out make sure that

1245

00:54:26,790 --> 00:54:24,700

you've got the next script ahead yeah I

1246

00:54:29,790 --> 00:54:26,800

don't need 20 scripts ahead okay and

1247

00:54:33,690 --> 00:54:29,800

make sure perhaps that you're up to date

1248

00:54:35,340 --> 00:54:33,700

with your vaccinations your adult is a

1249

00:54:38,700 --> 00:54:35,350

nice choice because you don't want to

1250

00:54:41,310 --> 00:54:38,710

get a vaccine preventable disease and

1251
00:54:44,340 --> 00:54:41,320
then be hit with corona virus on top of

1252
00:54:47,130 --> 00:54:44,350
that absolutely I had an email from a

1253
00:54:49,350 --> 00:54:47,140
colleague in Canada just recently and in

1254
00:54:50,850 --> 00:54:49,360
amongst all of the preparations that

1255
00:54:52,580 --> 00:54:50,860
hospitals are doing to try and be ready

1256
00:54:55,410 --> 00:54:52,590
for a potential for owner outbreak

1257
00:54:56,700 --> 00:54:55,420
they've had an outbreak of a variety of

1258
00:54:59,250 --> 00:54:56,710
things you know respiratory syncytial

1259
00:55:00,630 --> 00:54:59,260
virus gastro in July to spawners time

1260
00:55:01,980 --> 00:55:00,640
all of these different illnesses that

1261
00:55:04,260 --> 00:55:01,990
are clocking around and of course in

1262
00:55:07,050 --> 00:55:04,270
amongst at or two different strains of

1263
00:55:09,870 --> 00:55:07,060

flu in their particular community so yes

1264

00:55:12,420 --> 00:55:09,880

please make yourself be protected

1265

00:55:15,480 --> 00:55:12,430

against the things that you can and then

1266

00:55:17,310 --> 00:55:15,490

for the corona virus washing your hands

1267

00:55:18,600 --> 00:55:17,320

really frequently reduces the number of

1268

00:55:21,660 --> 00:55:18,610

times that you're touching your face

1269

00:55:24,270 --> 00:55:21,670

trying to stay a metre to a metre and a

1270

00:55:26,910 --> 00:55:24,280

half away from people who might be

1271

00:55:29,580 --> 00:55:26,920

unwell so that if they do cough it's not

1272

00:55:32,370 --> 00:55:29,590

going to be popping on on vital parts of

1273

00:55:34,980 --> 00:55:32,380

you yes and stay home if you're sick

1274

00:55:37,680 --> 00:55:34,990

don't go to work don't go to school yet

1275

00:55:41,910 --> 00:55:37,690

all very good advice and I think we need

1276
00:55:44,250 --> 00:55:41,920
to wrap it up sue but thank you so much

1277
00:55:45,660 --> 00:55:44,260
I know how busy you are and we really

1278
00:55:48,150 --> 00:55:45,670
appreciate the time that you've spent

1279
00:55:51,690 --> 00:55:48,160
today and I know that the listeners will

1280
00:55:52,590 --> 00:55:51,700
really appreciate it too so maybe we'll

1281
00:55:55,620 --> 00:55:52,600
talk again soon

1282
00:55:59,170 --> 00:55:55,630
and thank you dr. Paige for joining us

1283
00:56:08,370 --> 00:55:59,180
on skeptic zone always a pleasure buddy

1284
00:56:10,900 --> 00:56:08,380
[Music]

1285
00:56:13,120 --> 00:56:10,910
skeptics cafe is held on the third

1286
00:56:15,970 --> 00:56:13,130
Monday of every month at the Dan

1287
00:56:19,150 --> 00:56:15,980
O'Connell Hotel in Melbourne on Monday

1288
00:56:21,940 --> 00:56:19,160

March 16th Chris guest president of the

1289

00:56:24,400 --> 00:56:21,950

Vic skeptics exam is the curious career

1290

00:56:28,299 --> 00:56:24,410

of the acclaimed archaeologist James

1291

00:56:31,059 --> 00:56:28,309

mallet in the middle of the 20th century

1292

00:56:33,490 --> 00:56:31,069

mallet changed our understanding of the

1293

00:56:36,069 --> 00:56:33,500

Neolithic period in Alitalia with

1294

00:56:38,309 --> 00:56:36,079

amazing discoveries at Haj Allah and

1295

00:56:40,269 --> 00:56:38,319

Charlton who yuck

1296

00:56:43,359 --> 00:56:40,279

controversies abounded when he

1297

00:56:46,329 --> 00:56:43,369

documented the direct treasure the baker

1298

00:56:48,700 --> 00:56:46,339

inscription and discovered a continuity

1299

00:56:52,109 --> 00:56:48,710

of fabric designs dating from the

1300

00:56:55,029 --> 00:56:52,119

neolithic era to modern times in Turkey

1301

00:56:58,329 --> 00:56:55,039

for more information see the skeptics

1302

00:57:03,539 --> 00:56:58,339

cafe Facebook page or the Vic skeptics

1303

00:57:05,790 --> 00:57:03,549

website app vic skeptics wordpress.com

1304

00:57:20,019 --> 00:57:05,800

slash events

1305

00:57:24,199 --> 00:57:22,430

thank you for listening to the skeptic

1306

00:57:26,509 --> 00:57:24,209

zone coming up on next week's show part

1307

00:57:27,949 --> 00:57:26,519

two of maynard's night at the Australian

1308

00:57:28,759 --> 00:57:27,959

skeptics dinner meeting all about

1309

00:57:31,219 --> 00:57:28,769

climate change

1310

00:57:33,410 --> 00:57:31,229

Maynard talks to the one and only dick

1311

00:57:36,499 --> 00:57:33,420

Smith one of the founders one of the

1312

00:57:38,239 --> 00:57:36,509

patrons of Australian sceptics and other

1313

00:57:42,019 --> 00:57:38,249

pub goers including our president

1314

00:57:43,959 --> 00:57:42,029

Jessica singer also a story by Michelle

1315

00:57:49,009 --> 00:57:43,969

Franklin in the Northern Territory about

1316

00:57:52,039 --> 00:57:49,019

invasive species centering on horses not

1317

00:57:54,349 --> 00:57:52,049

many people would think about that but

1318

00:57:57,739 --> 00:57:54,359

yes horses in Australia are invasive

1319

00:57:59,870 --> 00:57:57,749

species we have an update from the

1320

00:58:02,839 --> 00:57:59,880

guerrilla skepticism on Wikipedia by

1321

00:58:06,140 --> 00:58:02,849

susan gerbic and also another logical

1322

00:58:08,089 --> 00:58:06,150

fallacy with michelle beakers mark next

1323

00:58:10,519 --> 00:58:08,099

weeks you'll be looking at the straw man

1324

00:58:12,829 --> 00:58:10,529

fallacy there's so much coming up on

1325

00:58:14,569 --> 00:58:12,839

next week's show I better start working

1326

00:58:16,370 --> 00:58:14,579

on it but for this week

1327

00:58:23,239 --> 00:58:16,380

this is Richard Saunders signing off

1328

00:58:25,309 --> 00:58:23,249

from Sydney Australia you've been

1329

00:58:30,769 --> 00:58:25,319

listening to the skeptic zone podcast

1330

00:58:33,799 --> 00:58:30,779

please visit our website at WWDC be for

1331

00:58:36,459 --> 00:58:33,809

show notes contacts and to access the

1332

00:58:39,739 --> 00:58:36,469

bat catalog of episodes going back to

1333

00:58:43,400 --> 00:58:39,749

2008 you can follow the skeptic zone

1334

00:58:45,799 --> 00:58:43,410

podcast on twitter at skeptic zone visit

1335

00:58:49,160 --> 00:58:45,809

our facebook page or leave a review on

1336

00:58:52,519 --> 00:58:49,170

itunes you can also support the skeptic

1337

00:58:54,890 --> 00:58:52,529

zone via patreon or PayPal the skeptic

1338

00:58:56,839 --> 00:58:54,900

zone podcast is an independent

1339

00:58:58,999 --> 00:58:56,849

production reviews and opinions

1340

00:59:01,189 --> 00:58:59,009

expressed on the skeptic zone and not

1341

00:59:04,120 --> 00:59:01,199

necessarily those of Australian skeptics