

Episode **619**

THE
**SKEPTIC
ZONE**
PODCAST

www.skepticzone.tv

23 August 2020

Beth Darlington
Looking for Ghosts!

Logical Fallacies
with Michelle Bijkersma
"The Anecdotal Evidence Fallacy"

The Lost Moon Mission

COVID-19 Craziness

Dr Paulie interviews
Professor Tammy Hoffmann



1
00:00:03,680 --> 00:00:02,230
this is james randy and you're listening

2
00:00:10,390 --> 00:00:03,690
to the skeptic zone

3
00:00:13,030 --> 00:00:10,400
[Music]

4
00:00:14,070 --> 00:00:13,040
welcome to the skeptic zone the podcast

5
00:00:17,710 --> 00:00:14,080
from australia

6
00:00:20,610 --> 00:00:17,720
for science and reason

7
00:00:27,349 --> 00:00:20,620
[Applause]

8
00:00:29,189 --> 00:00:27,359
[Music]

9
00:00:32,069 --> 00:00:29,199
yes it's the skeptic's own podcast

10
00:00:35,510 --> 00:00:32,079
episode number 619

11
00:00:37,030 --> 00:00:35,520
for the 23rd of august 2020. richard

12
00:00:38,150 --> 00:00:37,040
saunders here with you from sydney

13
00:00:41,830 --> 00:00:38,160

australia

14

00:00:44,069 --> 00:00:41,840

where the winter winds have come

15

00:00:45,029 --> 00:00:44,079

it's quite cool outside crisp and cool

16

00:00:46,869 --> 00:00:45,039

sunny

17

00:00:49,029 --> 00:00:46,879

and there is lots of snow in the

18

00:00:51,270 --> 00:00:49,039

mountains to the west of sydney

19

00:00:53,110 --> 00:00:51,280

people are running up driving up doing

20

00:00:56,709 --> 00:00:53,120

whatever they can to enjoy

21

00:00:58,790 --> 00:00:56,719

a winter wonderland coming up on this

22

00:01:01,189 --> 00:00:58,800

week's show i speak to my old friend

23

00:01:02,630 --> 00:01:01,199

beth darlington from access paranormal

24

00:01:05,910 --> 00:01:02,640

beth is in the uk

25

00:01:07,910 --> 00:01:05,920

at the moment and she goes around well

26

00:01:11,350 --> 00:01:07,920

so-called haunted locations

27

00:01:14,390 --> 00:01:11,360

trying to find out what really is going

28

00:01:15,510 --> 00:01:14,400

bump in the night and i think you'll

29

00:01:18,710 --> 00:01:15,520

find

30

00:01:21,910 --> 00:01:18,720

that beth has a pretty good attitude to

31

00:01:23,590 --> 00:01:21,920

these investigations following that it's

32

00:01:25,030 --> 00:01:23,600

michelle bickersma from melbourne hello

33

00:01:28,070 --> 00:01:25,040

michelle down there

34

00:01:29,990 --> 00:01:28,080

in uh in the lockdown in melbourne and

35

00:01:33,429 --> 00:01:30,000

michelle will be looking at

36

00:01:35,830 --> 00:01:33,439

the anecdotal evidence fallacy

37

00:01:37,670 --> 00:01:35,840

i think this one comes up a lot and we

38

00:01:39,910 --> 00:01:37,680

hear this one a lot

39

00:01:41,830 --> 00:01:39,920

then we have the interesting case and a

40

00:01:45,030 --> 00:01:41,840

bit of history i must say

41

00:01:48,870 --> 00:01:45,040

now i hope you've listened to the

42

00:01:50,789 --> 00:01:48,880

skeptic zone radio adventure solar flare

43

00:01:53,109 --> 00:01:50,799

and if you scroll down to the bottom of

44

00:01:53,590 --> 00:01:53,119

the page at skepticzone.tv you can see a

45

00:01:55,830 --> 00:01:53,600

link

46

00:01:58,149 --> 00:01:55,840

and listen to solar flare we did this

47

00:02:01,350 --> 00:01:58,159

some years ago it was a lot of fun

48

00:02:03,910 --> 00:02:01,360

wow recently discovered

49

00:02:04,789 --> 00:02:03,920

future audio from nasa if i can put it

50

00:02:08,229 --> 00:02:04,799

that way

51
00:02:08,710 --> 00:02:08,239
it turns out there was an original solar

52
00:02:13,030 --> 00:02:08,720
flare

53
00:02:15,589 --> 00:02:13,040
the original one

54
00:02:16,869 --> 00:02:15,599
that was well it was sort of on its way

55
00:02:19,110 --> 00:02:16,879
to the moon

56
00:02:21,030 --> 00:02:19,120
we're going to discover more a little

57
00:02:23,110 --> 00:02:21,040
bit later on in the show

58
00:02:25,190 --> 00:02:23,120
then we have a roundup of some of the

59
00:02:28,070 --> 00:02:25,200
latest covet 19

60
00:02:28,630 --> 00:02:28,080
foolishness to be found in real life and

61
00:02:31,350 --> 00:02:28,640
on the

62
00:02:32,790 --> 00:02:31,360
interwebs and it's also a reminder that

63
00:02:35,110 --> 00:02:32,800

you still have some time to nominate

64

00:02:37,430 --> 00:02:35,120

someone or something some organization

65

00:02:38,229 --> 00:02:37,440

for the australian skeptics bent spoon

66

00:02:40,070 --> 00:02:38,239

award

67

00:02:41,750 --> 00:02:40,080

and to round off the show it's let's

68

00:02:44,710 --> 00:02:41,760

have a random rant

69

00:02:45,990 --> 00:02:44,720

with our reporter dr paulie who's very

70

00:02:48,150 --> 00:02:46,000

busy at the moment

71

00:02:50,550 --> 00:02:48,160

very busy being one of the organizers

72

00:02:52,949 --> 00:02:50,560

for the upcoming skepticon

73

00:02:53,830 --> 00:02:52,959

2020 the australian skeptics national

74

00:02:55,589 --> 00:02:53,840

convention

75

00:02:57,430 --> 00:02:55,599

and there will be a new promo in this

76
00:02:58,309 --> 00:02:57,440
week's show anyway dr paulie looks at

77
00:03:01,509 --> 00:02:58,319
the study

78
00:03:04,229 --> 00:03:01,519
about fighting covet 19 misinformation

79
00:03:04,949 --> 00:03:04,239
on social media and then she interviews

80
00:03:07,830 --> 00:03:04,959
professor

81
00:03:09,430 --> 00:03:07,840
tammy hoffman from the institute of

82
00:03:12,470 --> 00:03:09,440
evidence-based healthcare at

83
00:03:15,670 --> 00:03:12,480
bond university about critical thinking

84
00:03:16,869 --> 00:03:15,680
in schools now if you're a teacher or

85
00:03:18,869 --> 00:03:16,879
you know a teacher

86
00:03:20,630 --> 00:03:18,879
this should be a very interesting

87
00:03:24,070 --> 00:03:20,640
interview for you

88
00:03:25,990 --> 00:03:24,080

stay tuned at the end of the show

89

00:03:27,350 --> 00:03:26,000

for an announcement about our new

90

00:03:29,910 --> 00:03:27,360

reporter

91

00:03:31,030 --> 00:03:29,920

and if you listen carefully you'll

92

00:03:33,509 --> 00:03:31,040

actually hear

93

00:03:34,470 --> 00:03:33,519

our new reporter during the show at some

94

00:03:36,070 --> 00:03:34,480

stage

95

00:03:39,030 --> 00:03:36,080

but now it's time for me to run

96

00:03:40,869 --> 00:03:39,040

downstairs yes susan gerbic i will look

97

00:03:43,670 --> 00:03:40,879

carefully to make sure i don't trip over

98

00:03:45,910 --> 00:03:43,680

those skeptic zone cats

99

00:03:47,750 --> 00:03:45,920

and i think this week i might have a

100

00:03:50,390 --> 00:03:47,760

little cup of instant

101
00:03:51,509 --> 00:03:50,400
chicken soup something like that with a

102
00:03:53,670 --> 00:03:51,519
bit of toast

103
00:04:01,440 --> 00:03:53,680
while i did that i hope you enjoy the

104
00:04:15,110 --> 00:04:01,450
skeptic zone

105
00:04:18,870 --> 00:04:17,189
joining me now on the line all the way

106
00:04:21,270 --> 00:04:18,880
from london in the uk

107
00:04:23,990 --> 00:04:21,280
and believe it or not folks i kid you

108
00:04:27,189 --> 00:04:24,000
not we are actually doing this uh

109
00:04:28,950 --> 00:04:27,199
the uh the base hookup via the telephone

110
00:04:31,510 --> 00:04:28,960
line remember those it's

111
00:04:32,710 --> 00:04:31,520
beth darlington hello beth oh richard so

112
00:04:34,950 --> 00:04:32,720
good to speak with you

113
00:04:36,950 --> 00:04:34,960

yes it's been a long time since we've

114

00:04:40,070 --> 00:04:36,960

seen each other we had a wonderful

115

00:04:43,030 --> 00:04:40,080

day about oh two years back

116

00:04:45,350 --> 00:04:43,040

you and i in maynard went down to

117

00:04:47,430 --> 00:04:45,360

circular key here in sydney in the times

118

00:04:49,350 --> 00:04:47,440

before when you really could get around

119

00:04:50,629 --> 00:04:49,360

and uh you and i faced the camera and

120

00:04:53,270 --> 00:04:50,639

were very serious about

121

00:04:55,189 --> 00:04:53,280

psychic investigations and maynard

122

00:04:57,590 --> 00:04:55,199

walked by in a bedsheet

123

00:04:58,469 --> 00:04:57,600

it was so funny and he did such a great

124

00:05:00,870 --> 00:04:58,479

job it was

125

00:05:01,670 --> 00:05:00,880

we had such fun that morning he was

126

00:05:03,430 --> 00:05:01,680

moving around

127

00:05:05,110 --> 00:05:03,440

and the holes cut out from the sheets

128

00:05:05,590 --> 00:05:05,120

for his eyes it looked great it was such

129

00:05:07,990 --> 00:05:05,600

a great

130

00:05:09,749 --> 00:05:08,000

great day really good morning yeah and i

131

00:05:09,990 --> 00:05:09,759

think that sums up your attitude to a

132

00:05:12,629 --> 00:05:10,000

lot

133

00:05:14,710 --> 00:05:12,639

of these things now you are a paranormal

134

00:05:17,510 --> 00:05:14,720

investigator you go out to ghosty

135

00:05:18,390 --> 00:05:17,520

places um whenever you can and right now

136

00:05:20,390 --> 00:05:18,400

you're in the uk

137

00:05:23,110 --> 00:05:20,400

doing that what does that mean exactly

138

00:05:25,670 --> 00:05:23,120

what what do you do when you arrive and

139

00:05:27,430 --> 00:05:25,680

i know you'd i think it's fair to say

140

00:05:28,150 --> 00:05:27,440

you take it in the right spirits pun

141

00:05:30,469 --> 00:05:28,160

intended

142

00:05:32,310 --> 00:05:30,479

i think you have a really good time but

143

00:05:32,710 --> 00:05:32,320

what's your goal and how do you go about

144

00:05:36,310 --> 00:05:32,720

it

145

00:05:38,150 --> 00:05:36,320

mean a lot of events

146

00:05:40,629 --> 00:05:38,160

are very similar here to what they are

147

00:05:42,310 --> 00:05:40,639

in australia and also in the us as well

148

00:05:43,990 --> 00:05:42,320

but it's a really more um of an

149

00:05:45,749 --> 00:05:44,000

inquisitive sort of

150

00:05:47,510 --> 00:05:45,759

stance but obviously it's about actually

151
00:05:49,270 --> 00:05:47,520
investigating possible paranormal

152
00:05:50,790 --> 00:05:49,280
phenomena so it's more of the

153
00:05:52,469 --> 00:05:50,800
okay something's occurred let's let's

154
00:05:52,870 --> 00:05:52,479
look at it a more rational way i think

155
00:05:58,550 --> 00:05:52,880
they

156
00:06:00,309 --> 00:05:58,560
chris french uh is a big sort of pioneer

157
00:06:01,189 --> 00:06:00,319
of that he's also based here in the uk

158
00:06:03,189 --> 00:06:01,199
as well

159
00:06:04,710 --> 00:06:03,199
and it's really just looking at it from

160
00:06:05,510 --> 00:06:04,720
a more rational perspective okay

161
00:06:09,270 --> 00:06:05,520
something's

162
00:06:10,790 --> 00:06:09,280
before we even entertain the possibility

163
00:06:12,230 --> 00:06:10,800

of it being paranormal and i kind of

164

00:06:14,230 --> 00:06:12,240

really do take that angle

165

00:06:15,749 --> 00:06:14,240

i know a couple of my friends who our

166

00:06:16,150 --> 00:06:15,759

investigators think it's probably not

167

00:06:18,950 --> 00:06:16,160

the best

168

00:06:19,990 --> 00:06:18,960

maybe it's good to be a little bit more

169

00:06:21,990 --> 00:06:20,000

neutral with that

170

00:06:23,430 --> 00:06:22,000

sort of approach but i really do think

171

00:06:24,950 --> 00:06:23,440

it's best to approach it from a

172

00:06:26,469 --> 00:06:24,960

it's probably not paranormal but let's

173

00:06:28,309 --> 00:06:26,479

just have a look at it anyway

174

00:06:30,150 --> 00:06:28,319

um and then see what we can find

175

00:06:31,590 --> 00:06:30,160

absolutely and uh

176

00:06:34,230 --> 00:06:31,600

we had a wonderful time here when you

177

00:06:35,110 --> 00:06:34,240

did speak at skepticon 2018 here in

178

00:06:37,029 --> 00:06:35,120

sydney

179

00:06:39,430 --> 00:06:37,039

and you were on a panel with myself as

180

00:06:41,110 --> 00:06:39,440

the host and uh a

181

00:06:42,629 --> 00:06:41,120

group of skeptics from around the world

182

00:06:45,749 --> 00:06:42,639

and there you were

183

00:06:48,710 --> 00:06:45,759

uh sort of out uh the odd one out in

184

00:06:51,110 --> 00:06:48,720

a funny sort of way and i believe that

185

00:06:53,990 --> 00:06:51,120

your friends in the paranormal

186

00:06:55,350 --> 00:06:54,000

side of things weren't uh weren't really

187

00:06:57,270 --> 00:06:55,360

happy that you were there or they were

188

00:06:59,430 --> 00:06:57,280

worried for you or something like that

189

00:07:00,870 --> 00:06:59,440

that's that's exactly right i had a lot

190

00:07:02,710 --> 00:07:00,880

of uh concerned

191

00:07:05,430 --> 00:07:02,720

friends in the paranormal community that

192

00:07:06,150 --> 00:07:05,440

were um thinking i was very very brave

193

00:07:08,070 --> 00:07:06,160

to have

194

00:07:09,430 --> 00:07:08,080

got up on stage was obviously with such

195

00:07:11,670 --> 00:07:09,440

fantastic minds

196

00:07:13,350 --> 00:07:11,680

likes you know dr susan blackmore and i

197

00:07:15,350 --> 00:07:13,360

think um that's gary poppy that's

198

00:07:17,350 --> 00:07:15,360

exactly right lovely lovely people

199

00:07:18,629 --> 00:07:17,360

and you know they sort of were like well

200

00:07:20,230 --> 00:07:18,639

you know you you might need a

201
00:07:21,749 --> 00:07:20,240
bulletproof vest going up there and you

202
00:07:22,710 --> 00:07:21,759
know be careful they might you know

203
00:07:24,870 --> 00:07:22,720
really sort of

204
00:07:27,029 --> 00:07:24,880
hammer you down a bit but it obviously

205
00:07:30,070 --> 00:07:27,039
as you know i had the most amazing time

206
00:07:33,110 --> 00:07:30,080
very welcomed um it was such a great

207
00:07:35,589 --> 00:07:33,120
day a real eye-opener and um you know

208
00:07:36,710 --> 00:07:35,599
just great exchanging mind ideas

209
00:07:38,790 --> 00:07:36,720
thoughts theories

210
00:07:40,469 --> 00:07:38,800
and you know a lot of a really good

211
00:07:41,589 --> 00:07:40,479
healthy skepticism does look at the

212
00:07:44,550 --> 00:07:41,599
paranormal

213
00:07:46,629 --> 00:07:44,560

not as a you know this of course it's a

214

00:07:47,350 --> 00:07:46,639

pseudo science but it's not looked on up

215

00:07:49,029 --> 00:07:47,360

with such

216

00:07:51,270 --> 00:07:49,039

hate i guess you could say or distain

217

00:07:52,390 --> 00:07:51,280

it's just more of a bit of a cheeky joke

218

00:07:53,670 --> 00:07:52,400

on the side i guess you could say

219

00:07:54,790 --> 00:07:53,680

compared to more serious

220

00:07:56,309 --> 00:07:54,800

sort of issues like you know the

221

00:07:57,110 --> 00:07:56,319

anti-vaxxer movement or something like

222

00:07:58,710 --> 00:07:57,120

that so it's

223

00:08:00,390 --> 00:07:58,720

a very very different level of

224

00:08:01,270 --> 00:08:00,400

seriousness so i think with that it's a

225

00:08:03,909 --> 00:08:01,280

little more of a

226

00:08:05,909 --> 00:08:03,919

lighter sort of side of side of the

227

00:08:06,629 --> 00:08:05,919

world's topics to sit there and pick

228

00:08:08,150 --> 00:08:06,639

about so

229

00:08:12,629 --> 00:08:08,160

yeah it was a great time but yeah i have

230

00:08:13,990 --> 00:08:12,639

very concerned people originally

231

00:08:16,070 --> 00:08:14,000

that's one of the things i like about

232

00:08:16,469 --> 00:08:16,080

the skeptical movement we can be serious

233

00:08:18,390 --> 00:08:16,479

and we

234

00:08:20,309 --> 00:08:18,400

need to be serious from time to time and

235

00:08:22,469 --> 00:08:20,319

you put your finger on it right there

236

00:08:24,550 --> 00:08:22,479

with the anti-vaxxers in particular but

237

00:08:26,790 --> 00:08:24,560

we can have an awful lot of

238

00:08:28,950 --> 00:08:26,800

fun and interest and investigations and

239

00:08:31,110 --> 00:08:28,960

get out there and uh

240

00:08:33,190 --> 00:08:31,120

you know go to a supposedly haunted

241

00:08:36,149 --> 00:08:33,200

house but for you at the moment

242

00:08:37,990 --> 00:08:36,159

in the uk it must be a little bit tricky

243

00:08:38,870 --> 00:08:38,000

a little bit difficult to do your normal

244

00:08:41,589 --> 00:08:38,880

level of uh

245

00:08:42,550 --> 00:08:41,599

investigations it is it is um at the

246

00:08:44,710 --> 00:08:42,560

moment where

247

00:08:47,350 --> 00:08:44,720

we've got five stages of lockdown we're

248

00:08:49,829 --> 00:08:47,360

on stage three stage five was the most

249

00:08:51,190 --> 00:08:49,839

uh extreme i think we'll be in stage

250

00:08:53,269 --> 00:08:51,200

three for quite a while and that

251
00:08:56,310 --> 00:08:53,279
basically means we can't gather uh in

252
00:08:57,590 --> 00:08:56,320
groups of any more than 30 people

253
00:08:59,269 --> 00:08:57,600
and that obviously makes it very

254
00:09:00,630 --> 00:08:59,279
difficult for anyone who's running any

255
00:09:01,829 --> 00:09:00,640
event let alone a paranormal

256
00:09:03,670 --> 00:09:01,839
investigation

257
00:09:05,350 --> 00:09:03,680
particularly at night it's all this

258
00:09:07,350 --> 00:09:05,360
social distancing as well so it's

259
00:09:08,790 --> 00:09:07,360
keeping a distance from people

260
00:09:09,910 --> 00:09:08,800
um which is probably not a bad thing i

261
00:09:10,389 --> 00:09:09,920
think at the end of the day there's

262
00:09:12,870 --> 00:09:10,399
probably

263
00:09:14,310 --> 00:09:12,880

some benefit to it but it is quite

264

00:09:15,910 --> 00:09:14,320

difficult at the moment i know there's

265

00:09:17,829 --> 00:09:15,920

quite a few venues here that are

266

00:09:19,269 --> 00:09:17,839

suffering from as you can imagine lots

267

00:09:20,389 --> 00:09:19,279

of other businesses for different

268

00:09:21,990 --> 00:09:20,399

reasons so

269

00:09:23,269 --> 00:09:22,000

there are venues that would often have a

270

00:09:24,470 --> 00:09:23,279

lot of people going through in the

271

00:09:26,070 --> 00:09:24,480

evenings on the weekends

272

00:09:27,750 --> 00:09:26,080

particularly here now it's summer um

273

00:09:28,710 --> 00:09:27,760

it's the busiest time for this kind of

274

00:09:30,310 --> 00:09:28,720

stuff

275

00:09:31,829 --> 00:09:30,320

and they're not able to have as many

276

00:09:32,389 --> 00:09:31,839

people go through and of course they're

277

00:09:35,190 --> 00:09:32,399

months

278

00:09:35,990 --> 00:09:35,200

um like prior to now there was

279

00:09:38,070 --> 00:09:36,000

absolutely no

280

00:09:39,030 --> 00:09:38,080

events happening whatsoever until um i

281

00:09:41,430 --> 00:09:39,040

think it was july

282

00:09:42,949 --> 00:09:41,440

so it's it's hit it pretty hard in that

283

00:09:45,110 --> 00:09:42,959

sense and also dealing with private

284

00:09:47,190 --> 00:09:45,120

cases or residential cases

285

00:09:48,550 --> 00:09:47,200

uh there's been talk about people being

286

00:09:50,230 --> 00:09:48,560

indoors more than actually

287

00:09:52,310 --> 00:09:50,240

finding that there's more possible

288

00:09:53,829 --> 00:09:52,320

spooky happenings in their homes

289

00:09:55,350 --> 00:09:53,839

i think it's probably just more the fact

290

00:09:56,470 --> 00:09:55,360

they're spending more time at home as

291

00:09:58,949 --> 00:09:56,480

opposed to actually being

292

00:10:00,150 --> 00:09:58,959

out that's why i often find i get a lot

293

00:10:02,310 --> 00:10:00,160

more case inquiries

294

00:10:04,069 --> 00:10:02,320

in winter than i do in summer because a

295

00:10:05,590 --> 00:10:04,079

lot more people are indoors as well so

296

00:10:08,069 --> 00:10:05,600

i think that this is kind of almost

297

00:10:10,630 --> 00:10:08,079

supporting that idea that i have

298

00:10:11,350 --> 00:10:10,640

now you are involved in a group or is it

299

00:10:13,509 --> 00:10:11,360

is it

300

00:10:16,069 --> 00:10:13,519

your group i'm not exactly sure called

301
00:10:17,750 --> 00:10:16,079
access paranormal i like that because

302
00:10:19,190 --> 00:10:17,760
you wear the shirt don't you you wear

303
00:10:20,230 --> 00:10:19,200
the tank top and the shirt that says

304
00:10:21,910 --> 00:10:20,240
access paranormal

305
00:10:23,509 --> 00:10:21,920
that's right that's exactly it is my

306
00:10:25,190 --> 00:10:23,519
website um and it's

307
00:10:27,990 --> 00:10:25,200
originally just was a website for

308
00:10:29,509 --> 00:10:28,000
paranormal investigators in australia

309
00:10:31,350 --> 00:10:29,519
but i'm really really passionate about

310
00:10:33,030 --> 00:10:31,360
online learning for people who want to

311
00:10:35,269 --> 00:10:33,040
go out and do this because

312
00:10:37,269 --> 00:10:35,279
being in australia for so long you know

313
00:10:39,030 --> 00:10:37,279

having access to such information was

314

00:10:40,470 --> 00:10:39,040

was quite difficult you had to

315

00:10:42,550 --> 00:10:40,480

you know sort of fly over or you had to

316

00:10:44,550 --> 00:10:42,560

try and dig around and finding reliable

317

00:10:45,990 --> 00:10:44,560

information too it can just be

318

00:10:47,829 --> 00:10:46,000

a little harder you've got to really

319

00:10:49,509 --> 00:10:47,839

kind of dig about so i thought you know

320

00:10:51,190 --> 00:10:49,519

i'll create this website for the

321

00:10:51,750 --> 00:10:51,200

australian paranormal community and it's

322

00:10:53,590 --> 00:10:51,760

just

323

00:10:56,150 --> 00:10:53,600

sort of grown so much so it's more of an

324

00:10:58,630 --> 00:10:56,160

international website now which is great

325

00:10:59,990 --> 00:10:58,640

and some years back and sadly i couldn't

326

00:11:02,790 --> 00:11:00,000

make it at the time when we

327

00:11:03,350 --> 00:11:02,800

used to have skeptics in the pub in a

328

00:11:05,190 --> 00:11:03,360

pub

329

00:11:06,630 --> 00:11:05,200

you came and gave a talk here and for

330

00:11:08,870 --> 00:11:06,640

the sydney skeptics in the pub and i

331

00:11:11,110 --> 00:11:08,880

believe that was about um

332

00:11:12,710 --> 00:11:11,120

the paranormal and mental health can you

333

00:11:15,030 --> 00:11:12,720

expand upon that a little bit

334

00:11:16,230 --> 00:11:15,040

yes certainly um the talk was about the

335

00:11:18,230 --> 00:11:16,240

similarities between

336

00:11:19,670 --> 00:11:18,240

people who feel they're experiencing

337

00:11:21,350 --> 00:11:19,680

something paranormal

338

00:11:23,110 --> 00:11:21,360

compared to somebody who may actually be

339

00:11:25,430 --> 00:11:23,120

having a mental health

340

00:11:27,590 --> 00:11:25,440

illness or a crisis at that time and

341

00:11:28,310 --> 00:11:27,600

just the similarities of being aware of

342

00:11:30,310 --> 00:11:28,320

it that's

343

00:11:32,949 --> 00:11:30,320

very much from an ethical perspective as

344

00:11:34,790 --> 00:11:32,959

well so as an investigator i think it's

345

00:11:36,630 --> 00:11:34,800

particularly for possible paranormal

346

00:11:37,190 --> 00:11:36,640

phenomena i think it's really important

347

00:11:40,230 --> 00:11:37,200

to have

348

00:11:41,430 --> 00:11:40,240

a a good sound knowledge obviously

349

00:11:43,030 --> 00:11:41,440

you know there are people that are

350

00:11:44,150 --> 00:11:43,040

experts who are also paranormal

351
00:11:46,550 --> 00:11:44,160
investigators in

352
00:11:47,190 --> 00:11:46,560
mental illness and mental health but i

353
00:11:49,509 --> 00:11:47,200
think as

354
00:11:51,509 --> 00:11:49,519
a gen in the general population i think

355
00:11:54,629 --> 00:11:51,519
every investigator should actually do

356
00:11:56,069 --> 00:11:54,639
a mental health first aid course and uh

357
00:11:57,350 --> 00:11:56,079
be able but firstly to be able to help

358
00:11:59,110 --> 00:11:57,360
someone who's having a mental health

359
00:12:01,110 --> 00:11:59,120
crisis because that's the main reason

360
00:12:02,710 --> 00:12:01,120
but also gives a really good sound

361
00:12:04,949 --> 00:12:02,720
knowledge of the different types of

362
00:12:06,470 --> 00:12:04,959
mental illnesses people can experience

363
00:12:08,389 --> 00:12:06,480

and being aware of the fact that that

364

00:12:09,670 --> 00:12:08,399

might actually cross over into

365

00:12:11,910 --> 00:12:09,680

what people may feel like having a

366

00:12:13,350 --> 00:12:11,920

paranormal experience of course

367

00:12:14,629 --> 00:12:13,360

we don't diagnose or anything like

368

00:12:16,629 --> 00:12:14,639

that's not the case at all but just

369

00:12:19,269 --> 00:12:16,639

having that awareness so you know

370

00:12:21,110 --> 00:12:19,279

okay i think i might be above my my

371

00:12:22,949 --> 00:12:21,120

ground to be able to take this case on

372

00:12:24,710 --> 00:12:22,959

it needs to be referred to specialists

373

00:12:26,790 --> 00:12:24,720

instead like in the medical

374

00:12:29,110 --> 00:12:26,800

industry i think that's a it's a very

375

00:12:31,350 --> 00:12:29,120

good attitude to take because

376

00:12:33,190 --> 00:12:31,360

uh from time to time in the skeptical

377

00:12:36,629 --> 00:12:33,200

community we'll get people coming

378

00:12:39,110 --> 00:12:36,639

to us where in well for me for example

379

00:12:40,310 --> 00:12:39,120

in my completely uneducated opinion they

380

00:12:43,590 --> 00:12:40,320

may be in need of

381

00:12:45,030 --> 00:12:43,600

of more help or more guidance than i can

382

00:12:46,790 --> 00:12:45,040

possibly offer

383

00:12:48,069 --> 00:12:46,800

but i guess you would yes you would get

384

00:12:51,670 --> 00:12:48,079

people from time to time

385

00:12:54,069 --> 00:12:51,680

contacting you via access paranormal who

386

00:12:55,430 --> 00:12:54,079

would have worries and concerns maybe

387

00:12:56,629 --> 00:12:55,440

think they've got a haunted house but

388

00:12:58,949 --> 00:12:56,639

maybe have deep uh

389

00:13:00,389 --> 00:12:58,959

problems absolutely and it does happen

390

00:13:02,790 --> 00:13:00,399

that there are there are key

391

00:13:04,150 --> 00:13:02,800

things as you can imagine that you get

392

00:13:06,629 --> 00:13:04,160

kind of get flagged um

393

00:13:08,389 --> 00:13:06,639

as soon as they start speaking often i

394

00:13:09,350 --> 00:13:08,399

get emails and i can sort of tell

395

00:13:11,509 --> 00:13:09,360

through the emails

396

00:13:13,430 --> 00:13:11,519

uh with a certain language used and the

397

00:13:14,949 --> 00:13:13,440

certain things that people have said

398

00:13:16,470 --> 00:13:14,959

you know if there is actually something

399

00:13:17,910 --> 00:13:16,480

more that they need help with as opposed

400

00:13:19,350 --> 00:13:17,920

to something paranormal is like

401
00:13:20,870 --> 00:13:19,360
let's put that aside for now i think

402
00:13:21,829 --> 00:13:20,880
there might possibly be something else

403
00:13:23,509 --> 00:13:21,839
going on here

404
00:13:25,030 --> 00:13:23,519
and you learn to step away from that you

405
00:13:26,790 --> 00:13:25,040
know it's not a licensed

406
00:13:29,110 --> 00:13:26,800
job you know if there's no governing

407
00:13:31,269 --> 00:13:29,120
body there's no official qualification

408
00:13:32,870 --> 00:13:31,279
so it's it's it's all volunteer based as

409
00:13:35,030 --> 00:13:32,880
well and so you've got to really

410
00:13:36,870 --> 00:13:35,040
really um you know it's that ethical

411
00:13:38,069 --> 00:13:36,880
reasons for for stepping back and saying

412
00:13:39,590 --> 00:13:38,079
this is above

413
00:13:41,750 --> 00:13:39,600

what i can do to help this this

414

00:13:43,189 --> 00:13:41,760

obviously needs another specialized help

415

00:13:45,910 --> 00:13:43,199

that's professional

416

00:13:47,990 --> 00:13:45,920

and um in the medical field yeah yeah

417

00:13:50,230 --> 00:13:48,000

absolutely and i think that that is

418

00:13:51,189 --> 00:13:50,240

the correct uh the correct attitude to

419

00:13:53,189 --> 00:13:51,199

take uh

420

00:13:54,389 --> 00:13:53,199

finally beth i mean in all the years

421

00:13:56,230 --> 00:13:54,399

you've been doing this and you've been

422

00:13:57,910 --> 00:13:56,240

running around ghostly houses and haunted

423

00:13:59,670 --> 00:13:57,920

locations and things like that

424

00:14:01,350 --> 00:13:59,680

have you ever seen anything that went

425

00:14:02,550 --> 00:14:01,360

bump in the night that really had you

426

00:14:06,150 --> 00:14:02,560

scratching your head

427

00:14:07,269 --> 00:14:06,160

i did think i've seen an apparition and

428

00:14:08,870 --> 00:14:07,279

i always say think

429

00:14:11,509 --> 00:14:08,880

because i had someone else see it with

430

00:14:14,790 --> 00:14:11,519

me as well um when we were in a

431

00:14:16,629 --> 00:14:14,800

lovely old um pub in near

432

00:14:18,150 --> 00:14:16,639

goulburn area at just outside of

433

00:14:20,550 --> 00:14:18,160

goulburn and

434

00:14:21,829 --> 00:14:20,560

we were setting up and we knew the place

435

00:14:24,230 --> 00:14:21,839

was all locked off and

436

00:14:25,910 --> 00:14:24,240

uh there's a person we're paranormal

437

00:14:27,269 --> 00:14:25,920

investigators we all wear black

438

00:14:29,590 --> 00:14:27,279

so everyone's wearing black everyone

439

00:14:30,710 --> 00:14:29,600

knows so we look like night time

440

00:14:32,710 --> 00:14:30,720

you know as you do you've got it's got

441

00:14:35,829 --> 00:14:32,720

to be in your color right and

442

00:14:37,350 --> 00:14:35,839

i i we looked across and there was um

443

00:14:38,949 --> 00:14:37,360

sometimes you know with people who do

444

00:14:40,550 --> 00:14:38,959

feature walls they'll cut a section out

445

00:14:41,990 --> 00:14:40,560

and put glass instead so

446

00:14:43,590 --> 00:14:42,000

you know it's not the full wall but it's

447

00:14:45,509 --> 00:14:43,600

part of it and

448

00:14:48,150 --> 00:14:45,519

somebody had walked past in a denim blue

449

00:14:49,509 --> 00:14:48,160

shirt and sandy blonde hair

450

00:14:51,030 --> 00:14:49,519

and of course there's nobody who was

451
00:14:52,470 --> 00:14:51,040
wearing that at the time so i thought

452
00:14:54,470 --> 00:14:52,480
hang on i thought we've got the whole

453
00:14:56,069 --> 00:14:54,480
place to ourselves and so i went around

454
00:14:56,389 --> 00:14:56,079
the corner with my friend who saw i

455
00:14:58,710 --> 00:14:56,399
thought

456
00:15:00,389 --> 00:14:58,720
someone's someone must have broke in i

457
00:15:01,750 --> 00:15:00,399
went around the corner realizing as i

458
00:15:03,750 --> 00:15:01,760
was walking around the corners hard

459
00:15:05,670 --> 00:15:03,760
floors i'm like i can hear my feet

460
00:15:07,189 --> 00:15:05,680
walking on the floor i didn't hear

461
00:15:08,230 --> 00:15:07,199
footsteps before

462
00:15:09,750 --> 00:15:08,240
and obviously as i went around the

463
00:15:10,870 --> 00:15:09,760

corner that person was not there and

464

00:15:12,310 --> 00:15:10,880

actually realized they would have

465

00:15:14,150 --> 00:15:12,320

actually been half into the ground as

466

00:15:16,629 --> 00:15:14,160

well so

467

00:15:19,350 --> 00:15:16,639

it was very interesting so i don't know

468

00:15:20,790 --> 00:15:19,360

that's about to say isn't that fun

469

00:15:22,949 --> 00:15:20,800

and it reminds me of you know the good

470

00:15:24,310 --> 00:15:22,959

old stuff the stuff that i like the ufos

471

00:15:26,629 --> 00:15:24,320

and the monsters and the looking for

472

00:15:28,389 --> 00:15:26,639

ghosties and what was that sort of thing

473

00:15:30,069 --> 00:15:28,399

uh it really takes me back i think

474

00:15:31,829 --> 00:15:30,079

that's wonderful well beth darlington

475

00:15:33,189 --> 00:15:31,839

all the way over there in uk

476

00:15:35,189 --> 00:15:33,199

good luck with your future

477

00:15:37,189 --> 00:15:35,199

investigations into ghosties and

478

00:15:39,350 --> 00:15:37,199

and haunted places and you know what

479

00:15:39,990 --> 00:15:39,360

when this is all over beth one day i'd

480

00:15:42,230 --> 00:15:40,000

love to come

481

00:15:43,030 --> 00:15:42,240

on a ghost hunt with you that would be

482

00:15:44,710 --> 00:15:43,040

fantastic

483

00:15:46,310 --> 00:15:44,720

i would love to have you over here there

484

00:15:48,629 --> 00:15:46,320

are so many different

485

00:15:50,389 --> 00:15:48,639

venues and old buildings worth exploring

486

00:15:52,389 --> 00:15:50,399

in the spooky parts at night time so

487

00:15:54,150 --> 00:15:52,399

that would be great to have you over

488

00:15:56,069 --> 00:15:54,160

it would it wouldn't i look forward to

489

00:15:56,870 --> 00:15:56,079

it it would indeed but for now beth

490

00:16:06,829 --> 00:15:56,880

darlington

491

00:16:16,310 --> 00:16:09,520

richard

492

00:16:23,670 --> 00:16:21,110

dr alice howarth and michael marshall

493

00:16:25,829 --> 00:16:23,680

just two of the speakers for skepticon

494

00:16:29,749 --> 00:16:25,839

2020 the australian skeptics

495

00:16:34,389 --> 00:16:32,550

dr alice has a phd in cellular and

496

00:16:37,430 --> 00:16:34,399

molecular pharmacology

497

00:16:39,749 --> 00:16:37,440

in the field of cancer cell biology and

498

00:16:41,910 --> 00:16:39,759

is currently a clinical and molecular

499

00:16:44,069 --> 00:16:41,920

pharmacologist working in

500

00:16:46,069 --> 00:16:44,079

nano medicines at the university of

501
00:16:48,069 --> 00:16:46,079
liverpool in the uk

502
00:16:49,350 --> 00:16:48,079
as a vice president of the merseyside

503
00:16:51,990 --> 00:16:49,360
skeptic society

504
00:16:52,550 --> 00:16:52,000
alice has gone undercover to investigate

505
00:16:56,230 --> 00:16:52,560
false

506
00:16:58,389 --> 00:16:56,240
cancer cures flat earth beliefs and more

507
00:16:59,749 --> 00:16:58,399
alice is the co-host of the long-running

508
00:17:02,710 --> 00:16:59,759
skeptical podcast

509
00:17:06,549 --> 00:17:02,720
skeptics with a k a science communicator

510
00:17:10,470 --> 00:17:08,630
michael marshall is the project director

511
00:17:12,470 --> 00:17:10,480
of the good thinking society

512
00:17:13,590 --> 00:17:12,480
and president of the merseyside skeptic

513
00:17:15,750 --> 00:17:13,600

society

514

00:17:16,789 --> 00:17:15,760

he regularly speaks with proponents of

515

00:17:19,829 --> 00:17:16,799

pseudoscience

516

00:17:21,590 --> 00:17:19,839

for the be reasonable podcast

517

00:17:23,909 --> 00:17:21,600

his work has seen him organizing

518

00:17:26,710 --> 00:17:23,919

international homeopathy protests

519

00:17:27,909 --> 00:17:26,720

going undercover to expose psychics and

520

00:17:30,710 --> 00:17:27,919

quack medics

521

00:17:31,750 --> 00:17:30,720

spending a weekend embedded in the flat

522

00:17:35,350 --> 00:17:31,760

earth movement

523

00:17:38,150 --> 00:17:35,360

and co-founding the popular qed

524

00:17:39,990 --> 00:17:38,160

conference his work with good thinking

525

00:17:43,270 --> 00:17:40,000

was partly responsible

526
00:17:45,830 --> 00:17:43,280
for the end of homeopathy funding

527
00:17:47,270 --> 00:17:45,840
on the uk's national health service

528
00:17:49,990 --> 00:17:47,280
saving the country

529
00:17:50,950 --> 00:17:50,000
millions of pounds he has written for

530
00:17:54,390 --> 00:17:50,960
the guardian

531
00:17:58,470 --> 00:17:54,400
the times new scientist new statesman

532
00:18:00,150 --> 00:17:58,480
and the skeptic dr alice howarth and

533
00:18:02,789 --> 00:18:00,160
michael marshall just two of the

534
00:18:04,630 --> 00:18:02,799
speakers appearing at skepticon 2020

535
00:18:07,190 --> 00:18:04,640
the australian skeptics national

536
00:18:08,870 --> 00:18:07,200
convention

537
00:18:12,950 --> 00:18:08,880
for more information and to buy your

538
00:18:38,950 --> 00:18:28,310

org www.skepticcon.org a u

539

00:18:43,990 --> 00:18:38,960

[Music]

540

00:18:48,630 --> 00:18:46,789

what are logical fallacies and why is it

541

00:18:51,270 --> 00:18:48,640

important that critical thinkers should

542

00:18:53,590 --> 00:18:51,280

know about them

543

00:18:55,270 --> 00:18:53,600

a logical fallacy is an error we can

544

00:18:57,270 --> 00:18:55,280

make in reasoning

545

00:19:01,669 --> 00:18:57,280

but it usually crops up when we are

546

00:19:05,990 --> 00:19:03,750

some people might even knowingly use

547

00:19:06,870 --> 00:19:06,000

them to try and score cheap points in an

548

00:19:10,230 --> 00:19:06,880

argument

549

00:19:12,710 --> 00:19:10,240

due to intellectual laziness

550

00:19:14,549 --> 00:19:12,720

they are traps we can fall into but if

551
00:19:16,630 --> 00:19:14,559
we know what to look out for

552
00:19:20,230 --> 00:19:16,640
we can spot them when they occur and

553
00:19:21,430 --> 00:19:20,240
stop ourselves from using them

554
00:19:23,990 --> 00:19:21,440
[Music]

555
00:19:26,230 --> 00:19:24,000
this time we'll look at the anecdotal

556
00:19:28,630 --> 00:19:26,240
evidence fallacy

557
00:19:30,390 --> 00:19:28,640
this is when you are swayed into taking

558
00:19:33,430 --> 00:19:30,400
up a position or belief

559
00:19:36,549 --> 00:19:33,440
based on isolated examples of data

560
00:19:39,750 --> 00:19:36,559
poor data or personal experience

561
00:19:41,270 --> 00:19:39,760
rather than reliable evidence this

562
00:19:44,470 --> 00:19:41,280
logical fallacy

563
00:19:48,390 --> 00:19:44,480

is surely one of the most common and can

564

00:19:50,549 --> 00:19:48,400

be seen in many different circumstances

565

00:19:52,710 --> 00:19:50,559

it can come about from the intrinsic

566

00:19:53,830 --> 00:19:52,720

trust we have in the perceived wisdom of

567

00:19:57,430 --> 00:19:53,840

our friends

568

00:20:00,789 --> 00:19:57,440

and especially our family after all

569

00:20:03,590 --> 00:20:00,799

mother knows best i hear the

570

00:20:05,510 --> 00:20:03,600

vaxxed bus is touring the country they

571

00:20:06,070 --> 00:20:05,520

make videos of parents and others

572

00:20:09,590 --> 00:20:06,080

telling their

573

00:20:11,510 --> 00:20:09,600

stories of vaccine damage it seems then

574

00:20:14,230 --> 00:20:11,520

there must be something to the claims

575

00:20:16,230 --> 00:20:14,240

that vaccinations are unsafe

576
00:20:17,510 --> 00:20:16,240
here we have a classic case of people

577
00:20:20,789 --> 00:20:17,520
being swayed by the

578
00:20:23,350 --> 00:20:20,799
anecdotal evidence fallacy

579
00:20:26,070 --> 00:20:23,360
if vaccination was as dangerous as the

580
00:20:28,710 --> 00:20:26,080
anti-vaxxers would have us believe

581
00:20:31,029 --> 00:20:28,720
that fact would be reflected in ongoing

582
00:20:33,190 --> 00:20:31,039
studies worldwide

583
00:20:34,630 --> 00:20:33,200
but it can be compelling to see people

584
00:20:37,270 --> 00:20:34,640
pour their hearts out

585
00:20:39,270 --> 00:20:37,280
when they really do think vaccines have

586
00:20:42,470 --> 00:20:39,280
damaged their children

587
00:20:44,950 --> 00:20:42,480
people are so skeptical of acupuncture i

588
00:20:47,350 --> 00:20:44,960

bet they haven't tried it for themselves

589

00:20:48,789 --> 00:20:47,360

i was skeptical too until i tried it and

590

00:20:51,669 --> 00:20:48,799

i can tell you

591

00:20:52,789 --> 00:20:51,679

that i know it works because it worked

592

00:20:55,029 --> 00:20:52,799

for me

593

00:20:57,110 --> 00:20:55,039

skeptics have known for years that this

594

00:21:00,149 --> 00:20:57,120

sort of anecdotal evidence

595

00:21:03,350 --> 00:21:00,159

is almost impossible to counter

596

00:21:05,590 --> 00:21:03,360

when someone for whatever reason

597

00:21:06,470 --> 00:21:05,600

is convinced that a treatment has worked

598

00:21:10,070 --> 00:21:06,480

for them

599

00:21:13,590 --> 00:21:10,080

they will and understandably so

600

00:21:17,029 --> 00:21:13,600

stick to their guns no matter what

601
00:21:18,470 --> 00:21:17,039
alas in this case the scientific

602
00:21:22,390 --> 00:21:18,480
evidence for the claims of

603
00:21:25,270 --> 00:21:22,400
acupuncture are very much lacking

604
00:21:26,950 --> 00:21:25,280
they say the world is heating up and sea

605
00:21:29,510 --> 00:21:26,960
levels are rising

606
00:21:29,990 --> 00:21:29,520
but my family has been running the same

607
00:21:33,029 --> 00:21:30,000
oyster

608
00:21:36,310 --> 00:21:33,039
farm on the river for generations

609
00:21:37,990 --> 00:21:36,320
and you know what we haven't noticed any

610
00:21:41,430 --> 00:21:38,000
change in the water levels

611
00:21:43,669 --> 00:21:41,440
at all this example is based on a real

612
00:21:45,270 --> 00:21:43,679
interview with an oyster farmer in

613
00:21:48,310 --> 00:21:45,280

australia

614

00:21:51,830 --> 00:21:48,320

even though he might work on the river

615

00:21:52,149 --> 00:21:51,840

that doesn't mean he or his family going

616

00:21:55,270 --> 00:21:52,159

back

617

00:21:57,110 --> 00:21:55,280

years have kept accurate details of

618

00:22:00,310 --> 00:21:57,120

water levels

619

00:22:01,830 --> 00:22:00,320

however to him things seem more or less

620

00:22:04,390 --> 00:22:01,840

the same

621

00:22:07,710 --> 00:22:04,400

based on this he is ready to deny

622

00:22:11,430 --> 00:22:08,870

[Music]

623

00:22:13,029 --> 00:22:11,440

it is often very convenient to rely on

624

00:22:16,950 --> 00:22:13,039

anecdotal evidence

625

00:22:19,750 --> 00:22:16,960

and at some times it can seem intuitive

626
00:22:21,909 --> 00:22:19,760
no matter how sure we are we should

627
00:22:23,750 --> 00:22:21,919
never be afraid to check the basis of

628
00:22:26,760 --> 00:22:23,760
our opinions and beliefs

629
00:22:33,990 --> 00:22:26,770
to see if they are based on shaky ground

630
00:22:36,070 --> 00:22:34,000
[Music]

631
00:22:37,029 --> 00:22:36,080
knowing a logical fallacy when you hear

632
00:22:39,830 --> 00:22:37,039
one and

633
00:22:42,310 --> 00:22:39,840
even knowing its name is important when

634
00:22:45,750 --> 00:22:42,320
arguing your point of view

635
00:22:48,149 --> 00:22:45,760
however you may come across as arrogant

636
00:22:48,950 --> 00:22:48,159
and not get very far if you call it out

637
00:22:51,270 --> 00:22:48,960
by name

638
00:22:53,350 --> 00:22:51,280

to your opponent when you hear it being

639

00:22:55,909 --> 00:22:53,360

used

640

00:22:56,710 --> 00:22:55,919

if your opponent calls you out for using

641

00:22:58,950 --> 00:22:56,720

one

642

00:23:01,990 --> 00:22:58,960

it's time to stop and think about how

643

00:23:04,149 --> 00:23:02,000

you are making your case

644

00:23:05,350 --> 00:23:04,159

use your knowledge of logical fallacies

645

00:23:08,070 --> 00:23:05,360

wisely

646

00:23:09,350 --> 00:23:08,080

and remember that even if your point of

647

00:23:11,669 --> 00:23:09,360

view is right

648

00:23:12,950 --> 00:23:11,679

and you know all the pitfalls in arguing

649

00:23:15,430 --> 00:23:12,960

your case

650

00:23:16,630 --> 00:23:15,440

it doesn't always mean you'll win on the

651
00:23:19,909 --> 00:23:16,640
day

652
00:23:22,460 --> 00:23:19,919
and as skeptics we must also remember

653
00:23:25,510 --> 00:23:22,470
that we too can be wrong at times

654
00:23:27,270 --> 00:23:25,520
[Music]

655
00:23:38,670 --> 00:23:27,280
i'm michelle bickersma from the vic

656
00:23:43,990 --> 00:23:42,390
[Music]

657
00:23:45,590 --> 00:23:44,000
and now ladies and gentlemen it's a

658
00:23:50,070 --> 00:23:45,600
press room here at nasa

659
00:23:52,390 --> 00:23:50,080
this gives us a view of mission control

660
00:23:54,390 --> 00:23:52,400
up there on the giant screen you'll see

661
00:23:55,750 --> 00:23:54,400
the mission status of the solar flare

662
00:23:58,549 --> 00:23:55,760
space capsule

663
00:23:59,909 --> 00:23:58,559

from the australian space service or ass

664

00:24:01,350 --> 00:23:59,919

for short

665

00:24:03,190 --> 00:24:01,360

this is a part of our ongoing

666

00:24:05,430 --> 00:24:03,200

international cooperation

667

00:24:09,430 --> 00:24:05,440

as you can see the solar flare is on

668

00:24:13,990 --> 00:24:12,149

the pilot captain richard saunders won

669

00:24:15,190 --> 00:24:14,000

his chance to fly to the moon in a

670

00:24:18,640 --> 00:24:15,200

national lottery

671

00:24:21,190 --> 00:24:18,650

held in australia

672

00:24:23,990 --> 00:24:21,200

[Music]

673

00:24:24,950 --> 00:24:24,000

mission control to solar flare mission

674

00:24:27,820 --> 00:24:24,960

control to

675

00:24:29,430 --> 00:24:27,830

solar flare come in solar flare

676

00:24:32,149 --> 00:24:29,440

[Music]

677

00:24:32,870 --> 00:24:32,159

solar flare to houston solar flare

678

00:24:35,029 --> 00:24:32,880

houston

679

00:24:36,789 --> 00:24:35,039

captain saunders here how are you

680

00:24:39,830 --> 00:24:36,799

reading me houston

681

00:24:40,310 --> 00:24:39,840

houston here flight director dunning we

682

00:24:43,430 --> 00:24:40,320

have a

683

00:24:45,510 --> 00:24:43,440

worldwide hookup today so hi from nasa

684

00:24:48,310 --> 00:24:45,520

to wherever you're hearing us

685

00:24:49,190 --> 00:24:48,320

now your flight status is looking good

686

00:24:52,310 --> 00:24:49,200

solar flare

687

00:24:55,350 --> 00:24:52,320

need you to check your o2 levels

688

00:25:01,190 --> 00:24:55,360

uh we have them at uh one

689

00:25:04,549 --> 00:25:01,200
niner 6.5 uh roger that houston

690

00:25:07,110 --> 00:25:04,559
o2 levels are set we

691

00:25:08,390 --> 00:25:07,120
also have a message from the australian

692

00:25:10,870 --> 00:25:08,400
prime minister

693

00:25:12,070 --> 00:25:10,880
she wants you to bring back some moon

694

00:25:13,909 --> 00:25:12,080
aliens

695

00:25:16,950 --> 00:25:13,919
she says they'll do a better job than

696

00:25:18,630 --> 00:25:16,960
her current cabinet

697

00:25:20,950 --> 00:25:18,640
tell her i'll vote for her next time if

698

00:25:22,710 --> 00:25:20,960
she lowers my taxes

699

00:25:24,470 --> 00:25:22,720
i have about three hours before

700

00:25:28,310 --> 00:25:24,480
beginning my descent down

701
00:25:29,430 --> 00:25:28,320
to the lunar surface very smooth ride so

702
00:25:32,789 --> 00:25:29,440
far

703
00:25:34,870 --> 00:25:32,799
didn't feel the lift off at all man

704
00:25:36,549 --> 00:25:34,880
those rocket scientists you have really

705
00:25:38,870 --> 00:25:36,559
know their stuff

706
00:25:40,070 --> 00:25:38,880
and the artificial gravity is working

707
00:25:43,350 --> 00:25:40,080
well

708
00:25:44,950 --> 00:25:43,360
roger solar flare yeah that artificial

709
00:25:48,390 --> 00:25:44,960
gravity huh

710
00:25:51,830 --> 00:25:48,400
hey houston i have to report that the

711
00:25:53,269 --> 00:25:51,840
stars look very different today how so

712
00:25:56,149 --> 00:25:53,279
solar flare

713
00:25:57,990 --> 00:25:56,159

hard to pin down but they look like

714

00:25:59,990 --> 00:25:58,000

they've been drawn onto the background

715

00:26:03,190 --> 00:26:00,000

of space with

716

00:26:05,430 --> 00:26:03,200

with a crayon roger that uh

717

00:26:06,630 --> 00:26:05,440

solar flare you do know this is a public

718

00:26:09,830 --> 00:26:06,640

broadcast

719

00:26:14,070 --> 00:26:09,840

we are going out live around the world

720

00:26:15,590 --> 00:26:14,080

okay right understood then uh hi to my

721

00:26:17,350 --> 00:26:15,600

friends in australia

722

00:26:19,909 --> 00:26:17,360

sorry i don't have a view of the earth

723

00:26:21,830 --> 00:26:19,919

but the reversing camera hasn't

724

00:26:24,630 --> 00:26:21,840

functioned since takeoff

725

00:26:25,510 --> 00:26:24,640

now captain saunders we need you to

726

00:26:30,230 --> 00:26:25,520

start the

727

00:26:34,470 --> 00:26:30,240

uh special procedure in two hours

728

00:26:37,510 --> 00:26:34,480

uh special procedure houston

729

00:26:41,029 --> 00:26:37,520

not sure i've been informed about that

730

00:26:41,510 --> 00:26:41,039

the uh special procedure the one your

731

00:26:43,669 --> 00:26:41,520

prime

732

00:26:44,549 --> 00:26:43,679

minister briefed you on in canberra

733

00:26:48,230 --> 00:26:44,559

before you

734

00:26:51,590 --> 00:26:48,240

left australia all right the briefing

735

00:26:53,190 --> 00:26:51,600

yeah um i missed that one

736

00:26:54,950 --> 00:26:53,200

couldn't travel at the time owing to

737

00:26:57,990 --> 00:26:54,960

covet 19.

738

00:27:01,430 --> 00:26:58,000

is this special procedure important

739

00:27:03,830 --> 00:27:01,440

uh standby solar flare

740

00:27:06,149 --> 00:27:03,840

uh hey hey ben uh he says he wasn't

741

00:27:07,590 --> 00:27:06,159

briefed about the special procedure

742

00:27:09,830 --> 00:27:07,600

also why does he think there's

743

00:27:10,950 --> 00:27:09,840

artificial gravity and why did he talk

744

00:27:14,070 --> 00:27:10,960

about the stars being

745

00:27:15,350 --> 00:27:14,080

painted on i mean i did the best i could

746

00:27:17,350 --> 00:27:15,360

yeah well you know i think you could

747

00:27:18,070 --> 00:27:17,360

have done a better job use paint next

748

00:27:20,630 --> 00:27:18,080

time huh

749

00:27:22,230 --> 00:27:20,640

i think they look pretty but the does

750

00:27:24,389 --> 00:27:22,240

captain saunders

751
00:27:25,590 --> 00:27:24,399
no he can't i mean does he think he's

752
00:27:28,230 --> 00:27:25,600
really in space

753
00:27:29,110 --> 00:27:28,240
i think he does oh okay matt okay man

754
00:27:32,549 --> 00:27:29,120
you have the con

755
00:27:34,149 --> 00:27:32,559
i have to attend to this okay uh solar

756
00:27:36,230 --> 00:27:34,159
player this is houston

757
00:27:37,990 --> 00:27:36,240
uh mission deputy radford keep on your

758
00:27:39,269 --> 00:27:38,000
current trajectory and we'll update you

759
00:27:40,960 --> 00:27:39,279
soon

760
00:27:43,990 --> 00:27:40,970
roger that houston

761
00:27:47,110 --> 00:27:44,000
[Music]

762
00:27:48,870 --> 00:27:47,120
to the honorable prime minister of

763
00:27:56,630 --> 00:27:48,880

australia

764

00:28:00,630 --> 00:27:56,640

dear prime minister i am

765

00:28:03,750 --> 00:28:00,640

writing to you about a tricky situation

766

00:28:04,870 --> 00:28:03,760

with the current moon mission with your

767

00:28:08,389 --> 00:28:04,880

astronaut

768

00:28:14,870 --> 00:28:11,590

it appears he is unaware

769

00:28:19,430 --> 00:28:14,880

of the special procedure

770

00:28:22,549 --> 00:28:19,440

that is of faking a lunar landing

771

00:28:25,750 --> 00:28:22,559

and seems to be under the impression

772

00:28:30,389 --> 00:28:25,760

that he is really going

773

00:28:33,590 --> 00:28:30,399

to the moon as you know we

774

00:28:37,430 --> 00:28:33,600

here at nasa have spent a lot of

775

00:28:41,669 --> 00:28:37,440

time and money faking moon missions

776

00:28:45,190 --> 00:28:41,679

since the 1960s after we discovered

777

00:28:48,789 --> 00:28:45,200

the moon like the earth

778

00:28:52,470 --> 00:28:48,799

is flat i know how important

779

00:28:56,230 --> 00:28:52,480

it is for australia not to mention

780

00:28:59,590 --> 00:28:56,240

your re-election chances

781

00:29:02,950 --> 00:28:59,600

to seem to be in the forefront

782

00:29:06,070 --> 00:29:02,960

of space exploration even

783

00:29:10,310 --> 00:29:06,080

if it's 60 years late but

784

00:29:18,230 --> 00:29:14,630

for a problem with captain saunders

785

00:29:21,350 --> 00:29:18,240

i suggest we try the

786

00:29:24,470 --> 00:29:21,360

capricorn one solution

787

00:29:27,590 --> 00:29:24,480

we have a disused hanger

788

00:29:31,110 --> 00:29:27,600

over in area 51

789

00:29:34,389 --> 00:29:31,120

left vacant since the last et

790

00:29:37,909 --> 00:29:34,399

escaped in 2016.

791

00:29:38,310 --> 00:29:37,919

i'm sure we can tell him the mission has

792

00:29:41,750 --> 00:29:38,320

been

793

00:29:45,669 --> 00:29:41,760

aborted and convinced him he

794

00:29:49,110 --> 00:29:45,679

really returned to australia

795

00:29:54,470 --> 00:29:49,120

if we give him enough

796

00:29:57,909 --> 00:29:54,480

vegemite toast yours etc etc

797

00:29:58,549 --> 00:29:57,919

ps anytime your country wants to take

798

00:30:03,669 --> 00:29:58,559

back

799

00:30:07,190 --> 00:30:03,679

can ham be our guest

800

00:30:11,990 --> 00:30:07,200

solar flare to houston uh houston

801

00:30:15,750 --> 00:30:12,000

we have a problem roger solar flare

802

00:30:18,870 --> 00:30:15,760

it seems that someone or something

803

00:30:22,470 --> 00:30:18,880

is outside the capsule uh

804

00:30:34,830 --> 00:30:22,480

touching up the stars with a paintbrush

805

00:30:37,669 --> 00:30:36,310

radford

806

00:30:39,190 --> 00:30:37,679

good day this is dr karl karl

807

00:30:40,549 --> 00:30:39,200

kruschmusky proud to be a skeptic and

808

00:30:42,870 --> 00:30:40,559

you can find out more about me

809

00:30:51,340 --> 00:30:42,880

at drcarl.com and get lots of free stuff

810

00:31:05,029 --> 00:30:51,350

there as well

811

00:31:06,789 --> 00:31:05,039

[Music]

812

00:31:08,710 --> 00:31:06,799

now as mentioned a couple of weeks ago

813

00:31:10,389 --> 00:31:08,720

on the show or maybe a bit more

814

00:31:11,830 --> 00:31:10,399

there are lots of contenders this year

815

00:31:14,950 --> 00:31:11,840

for the Australian skeptics

816

00:31:16,470 --> 00:31:14,960

bent spoon award yeah awarded to the

817

00:31:18,630 --> 00:31:16,480

most preposterous piece of paranormal

818

00:31:20,549 --> 00:31:18,640

pseudoscientific before

819

00:31:21,830 --> 00:31:20,559

you know the sort of thing in the past

820

00:31:24,310 --> 00:31:21,840

that's gone to people

821

00:31:25,110 --> 00:31:24,320

advocating water divining various

822

00:31:29,029 --> 00:31:25,120

alternative

823

00:31:31,029 --> 00:31:29,039

medicine anti-vaccination views

824

00:31:32,549 --> 00:31:31,039

one year it went to a woman who said she

825

00:31:36,470 --> 00:31:32,559

could live on

826
00:31:38,710 --> 00:31:36,480
air alone breatharianism

827
00:31:39,830 --> 00:31:38,720
and you can spend a very enjoyable

828
00:31:41,669 --> 00:31:39,840
couple of hours

829
00:31:44,149 --> 00:31:41,679
going through the list of past winners

830
00:31:48,149 --> 00:31:44,159
of the ben spoon award stretching back

831
00:31:50,470 --> 00:31:48,159
in almost 40 years owing to covert 19

832
00:31:51,509 --> 00:31:50,480
indeed some of the previous winners are

833
00:31:53,110 --> 00:31:51,519
back again

834
00:31:55,269 --> 00:31:53,120
and one we've mentioned before on the

835
00:31:58,230 --> 00:31:55,279
show the

836
00:31:59,509 --> 00:31:58,240
man who always seems to go by the tag

837
00:32:04,070 --> 00:31:59,519
celebrity chef

838
00:32:07,590 --> 00:32:04,080

pete evans and this is a bit of a story

839

00:32:10,630 --> 00:32:07,600

that appeared in news.com.edu

840

00:32:11,509 --> 00:32:10,640

pete evans labeled hypocrite for covert

841

00:32:14,710 --> 00:32:11,519

19

842

00:32:17,430 --> 00:32:14,720

safety measures in his byron bay

843

00:32:19,269 --> 00:32:17,440

healing clinic and this is an article by

844

00:32:22,630 --> 00:32:19,279

rebecca skellen

845

00:32:25,830 --> 00:32:22,640

published on the 19th of august the tv

846

00:32:28,789 --> 00:32:25,840

chef there we go tv chef the tv

847

00:32:29,590 --> 00:32:28,799

chef's new byron healing clinic and

848

00:32:31,990 --> 00:32:29,600

healing

849

00:32:34,149 --> 00:32:32,000

clinic is in quotes appears to be

850

00:32:36,230 --> 00:32:34,159

adhering to social distancing

851
00:32:37,909 --> 00:32:36,240
which has left many labeling the

852
00:32:41,029 --> 00:32:37,919
anti-vaxxer

853
00:32:43,750 --> 00:32:41,039
a hypocrite and it says in part

854
00:32:45,909 --> 00:32:43,760
he's been spouting bizarre and

855
00:32:48,389 --> 00:32:45,919
potentially dangerous claims about the

856
00:32:51,669 --> 00:32:48,399
virus on his social media channels

857
00:32:54,070 --> 00:32:51,679
stating quote there is no pandemic

858
00:32:55,269 --> 00:32:54,080
end quote but now pete evans is being

859
00:32:58,870 --> 00:32:55,279
accused of being a

860
00:33:02,549 --> 00:32:58,880
hypocrite and that's in quotes too

861
00:33:05,669 --> 00:33:02,559
after photos of his new quotes again

862
00:33:08,549 --> 00:33:05,679
healing clinic in quote in byron bay

863
00:33:09,269 --> 00:33:08,559

new south wales show the business is

864

00:33:12,870 --> 00:33:09,279

following

865

00:33:15,750 --> 00:33:12,880

covet 19 safe practices including

866

00:33:16,230 --> 00:33:15,760

having a hand sanitizer station the

867

00:33:19,029 --> 00:33:16,240

clinic

868

00:33:20,549 --> 00:33:19,039

is yet to open its doors to clients but

869

00:33:24,149 --> 00:33:20,559

preparation for those

870

00:33:26,870 --> 00:33:24,159

seeking evan's quote transformational

871

00:33:27,909 --> 00:33:26,880

practices end quote at evolve health

872

00:33:30,710 --> 00:33:27,919

labs

873

00:33:31,669 --> 00:33:30,720

is well underway while there are no

874

00:33:34,070 --> 00:33:31,679

suggestions that

875

00:33:36,549 --> 00:33:34,080

evans is doing wrong by adhering to the

876

00:33:38,389 --> 00:33:36,559

government's social distancing measures

877

00:33:41,350 --> 00:33:38,399

many have pointed out it goes against

878

00:33:42,950 --> 00:33:41,360

the statements the 47 year old

879

00:33:44,549 --> 00:33:42,960

why that's important we should know his

880

00:33:47,669 --> 00:33:44,559

age i don't know but there you go

881

00:33:51,430 --> 00:33:47,679

the 47 year old has made doubting

882

00:33:53,909 --> 00:33:51,440

the coronavirus is even real

883

00:33:55,990 --> 00:33:53,919

a tweet posted earlier today calls out

884

00:33:58,230 --> 00:33:56,000

the former tv chef

885

00:34:00,710 --> 00:33:58,240

but forever whatever else he does in his

886

00:34:01,509 --> 00:34:00,720

whole life he'll always be called the tv

887

00:34:06,789 --> 00:34:01,519

chef

888

00:34:09,990 --> 00:34:06,799

venture labeling evans a hypocrite

889

00:34:14,069 --> 00:34:10,000

quote pete evans says that

890

00:34:17,109 --> 00:34:14,079

hashtag covid 19 and wearing masks

891

00:34:19,349 --> 00:34:17,119

is all bull he wants you to march in the

892

00:34:23,990 --> 00:34:19,359

streets against conformity

893

00:34:27,430 --> 00:34:24,000

but his new shop has distancing measures

894

00:34:29,270 --> 00:34:27,440

and sanitizer and he wears masks

895

00:34:31,270 --> 00:34:29,280

sucks when your heroes are hypocrites

896

00:34:34,710 --> 00:34:31,280

doesn't it end quote

897

00:34:38,470 --> 00:34:34,720

and that was a tweet from at cam

898

00:34:40,389 --> 00:34:38,480

lives here and i'll be linking

899

00:34:42,389 --> 00:34:40,399

to this article in this week's show

900

00:34:44,550 --> 00:34:42,399

notes it goes on to say

901
00:34:46,470 --> 00:34:44,560
while the front of the clinic can't be

902
00:34:48,869 --> 00:34:46,480
seen in the snap

903
00:34:51,430 --> 00:34:48,879
referring to a photograph on that page a

904
00:34:53,990 --> 00:34:51,440
distinctive logo on the reception desk

905
00:34:55,669 --> 00:34:54,000
where the sign is displayed is visible

906
00:34:57,910 --> 00:34:55,679
and matches that featured on the

907
00:35:01,510 --> 00:34:57,920
clinic's instagram page

908
00:35:02,150 --> 00:35:01,520
evolve health labs as a result others

909
00:35:04,150 --> 00:35:02,160
were

910
00:35:06,790 --> 00:35:04,160
quick to jump on board accusing the

911
00:35:08,950 --> 00:35:06,800
anti-vaxxer turned conspiracy theorist

912
00:35:10,230 --> 00:35:08,960
of shunning his controversial views to

913
00:35:13,670 --> 00:35:10,240

make money

914

00:35:15,750 --> 00:35:13,680

one person said he quote doesn't want to

915

00:35:18,710 --> 00:35:15,760

lose dollars dollars dollars

916

00:35:20,950 --> 00:35:18,720

end quote while another argued his bold

917

00:35:24,790 --> 00:35:20,960

statements about coronavirus

918

00:35:26,310 --> 00:35:24,800

were just for attention and another snap

919

00:35:29,510 --> 00:35:26,320

on the page

920

00:35:31,589 --> 00:35:29,520

has a sign saying help us keep everyone

921

00:35:34,150 --> 00:35:31,599

safe from covert 19

922

00:35:35,030 --> 00:35:34,160

do not visit if you have and it lists

923

00:35:38,470 --> 00:35:35,040

the various

924

00:35:39,910 --> 00:35:38,480

symptoms of coronavirus now if you

925

00:35:43,510 --> 00:35:39,920

recall

926
00:35:43,990 --> 00:35:43,520
pete evans has already been fined by the

927
00:35:47,109 --> 00:35:44,000
government

928
00:35:48,230 --> 00:35:47,119
for promoting a box of lights called a

929
00:35:50,069 --> 00:35:48,240
biocharger

930
00:35:51,670 --> 00:35:50,079
costing only fourteen thousand nine

931
00:35:54,710 --> 00:35:51,680
hundred ninety dollars

932
00:35:55,750 --> 00:35:54,720
that uh he claimed had healing

933
00:35:59,349 --> 00:35:55,760
properties for

934
00:36:02,310 --> 00:35:59,359
the wuhan virus and it says here

935
00:36:03,670 --> 00:36:02,320
he's been sharing countless conspiracy

936
00:36:07,990 --> 00:36:03,680
theory memes

937
00:36:11,190 --> 00:36:08,000
one of which asks his 263

938
00:36:12,710 --> 00:36:11,200

thousand followers if covert 19 was the

939

00:36:15,910 --> 00:36:12,720

quote

940

00:36:16,710 --> 00:36:15,920

biggest scam endemic in history end

941

00:36:18,870 --> 00:36:16,720

quote

942

00:36:20,630 --> 00:36:18,880

now we look around a bit more in another

943

00:36:21,910 --> 00:36:20,640

story in a similar vein that's come my

944

00:36:25,190 --> 00:36:21,920

way from

945

00:36:28,950 --> 00:36:25,200

also from news.com.eu is about

946

00:36:31,910 --> 00:36:28,960

doctors slamming covert 19 anti-vaxxers

947

00:36:34,069 --> 00:36:31,920

by dr zach turner a sydney doctor has

948

00:36:36,230 --> 00:36:34,079

spoken out saying anyone who refuses the

949

00:36:38,829 --> 00:36:36,240

covert 19 vaccination should be

950

00:36:40,390 --> 00:36:38,839

banned from traveling interstate and

951
00:36:42,550 --> 00:36:40,400
overseas

952
00:36:44,550 --> 00:36:42,560
and let's say that's assuming that a

953
00:36:49,030 --> 00:36:44,560
vaccine comes along

954
00:36:51,670 --> 00:36:49,040
which works which has yet to be seen

955
00:36:53,430 --> 00:36:51,680
the story says with news of vaccines

956
00:36:56,390 --> 00:36:53,440
reaching their final stages

957
00:36:58,470 --> 00:36:56,400
and our government signing a deal to buy

958
00:37:00,310 --> 00:36:58,480
25 million doses

959
00:37:01,829 --> 00:37:00,320
many of us are thinking with the relief

960
00:37:05,030 --> 00:37:01,839
that it

961
00:37:07,030 --> 00:37:05,040
it's all over unfortunately it is not

962
00:37:08,870 --> 00:37:07,040
even close to half way

963
00:37:11,670 --> 00:37:08,880

to achieve herd immunity and completely

964

00:37:15,030 --> 00:37:11,680

eradicate the transmission of covert 19

965

00:37:17,349 --> 00:37:15,040

australia would need about 80 to 95

966

00:37:20,390 --> 00:37:17,359

percent of its population vaccinated

967

00:37:24,950 --> 00:37:20,400

which in reality may take up until

968

00:37:28,310 --> 00:37:24,960

late next year now on this page

969

00:37:28,870 --> 00:37:28,320

there's a little uh little vote and it

970

00:37:31,349 --> 00:37:28,880

says

971

00:37:34,950 --> 00:37:31,359

would you take a covert 19 vaccine

972

00:37:38,470 --> 00:37:34,960

question mark yes or no cast your vote

973

00:37:40,069 --> 00:37:38,480

well what can we assume can we assume

974

00:37:42,470 --> 00:37:40,079

are they asking you would you take a

975

00:37:45,990 --> 00:37:42,480

covert 19 vaccine

976

00:37:48,390 --> 00:37:46,000

presumably it would work so

977

00:37:51,190 --> 00:37:48,400

a covet 19 vaccine that works that is

978

00:37:52,790 --> 00:37:51,200

true that is real that is effective

979

00:37:54,550 --> 00:37:52,800

of course it could be argued what this

980

00:37:55,829 --> 00:37:54,560

question is saying is would you take a

981

00:37:57,990 --> 00:37:55,839

covet 19

982

00:37:59,829 --> 00:37:58,000

vaccine or something that's labeled as

983

00:38:03,510 --> 00:37:59,839

such or hopeful or whatever

984

00:38:06,630 --> 00:38:03,520

let's see what there let's see what the

985

00:38:09,589 --> 00:38:06,640

results are so far and if i press

986

00:38:11,190 --> 00:38:09,599

yes assuming it's a real the real deal

987

00:38:15,950 --> 00:38:11,200

they're talking about cast your vote

988

00:38:19,270 --> 00:38:15,960

then the page loads ooh out of 98

989

00:38:22,470 --> 00:38:19,280

441 voters

990

00:38:25,750 --> 00:38:22,480

31 say yes

991

00:38:28,230 --> 00:38:25,760

69 say no and this

992

00:38:29,430 --> 00:38:28,240

reminds us that these sort of online

993

00:38:32,710 --> 00:38:29,440

votes

994

00:38:34,069 --> 00:38:32,720

are very unscientific and completely

995

00:38:37,750 --> 00:38:34,079

unreliable

996

00:38:39,750 --> 00:38:37,760

but i wonder if the anti-vaxxers or the

997

00:38:42,230 --> 00:38:39,760

flying monkeys as they're known

998

00:38:42,790 --> 00:38:42,240

have swooped on this page to heavily

999

00:38:45,430 --> 00:38:42,800

vote

1000

00:38:46,230 --> 00:38:45,440

no now it gets better don't worry i'll

1001
00:38:52,950 --> 00:38:46,240
i'll

1002
00:38:55,829 --> 00:38:52,960
voting uh box down the page a little bit

1003
00:38:58,310 --> 00:38:55,839
says should the covet 19 vaccine be

1004
00:39:02,150 --> 00:38:58,320
mandatory well well

1005
00:39:05,670 --> 00:39:02,160
okay why not for the sake of

1006
00:39:05,990 --> 00:39:05,680
this exercise i'll click yes there we go

1007
00:39:14,510 --> 00:39:06,000
i

1008
00:39:18,069 --> 00:39:14,520
the results are out of 86

1009
00:39:22,069 --> 00:39:18,079
075 votes 26

1010
00:39:24,150 --> 00:39:22,079
say yes and 74 percent say

1011
00:39:26,069 --> 00:39:24,160
no the story goes on to say the

1012
00:39:26,550 --> 00:39:26,079
government should consider updating the

1013
00:39:29,270 --> 00:39:26,560

current

1014

00:39:30,870 --> 00:39:29,280

quote yellow fever vaccination passport

1015

00:39:31,670 --> 00:39:30,880

end quote issued to australians who

1016

00:39:34,630 --> 00:39:31,680

receive

1017

00:39:35,589 --> 00:39:34,640

vaccinations before visiting high-risk

1018

00:39:37,190 --> 00:39:35,599

countries

1019

00:39:39,670 --> 00:39:37,200

these could easily be turned into

1020

00:39:40,069 --> 00:39:39,680

electronic vaccine cards and offered to

1021

00:39:43,510 --> 00:39:40,079

each

1022

00:39:45,910 --> 00:39:43,520

australian well gee

1023

00:39:47,589 --> 00:39:45,920

if we could peer into the future if we

1024

00:39:49,270 --> 00:39:47,599

could peer into the future we don't know

1025

00:39:51,670 --> 00:39:49,280

what it's going to be like

1026

00:39:53,349 --> 00:39:51,680

when and if there's a viable vaccine

1027

00:39:56,390 --> 00:39:53,359

with this sort of

1028

00:39:58,470 --> 00:39:56,400

travel and passports and

1029

00:40:00,150 --> 00:39:58,480

do you get a green tick do you get a

1030

00:40:01,990 --> 00:40:00,160

tattoo

1031

00:40:04,069 --> 00:40:02,000

have you had the flu have you had the

1032

00:40:06,230 --> 00:40:04,079

coronavirus vaccine yes i have well how

1033

00:40:08,230 --> 00:40:06,240

do we know it's in my passport oh not

1034

00:40:09,190 --> 00:40:08,240

good enough show us your tattoo i don't

1035

00:40:12,150 --> 00:40:09,200

know

1036

00:40:13,670 --> 00:40:12,160

the future no i don't think there are

1037

00:40:16,790 --> 00:40:13,680

going to be tattoos

1038

00:40:17,349 --> 00:40:16,800

and finally to wrap up this little covet

1039

00:40:21,349 --> 00:40:17,359

19

1040

00:40:24,950 --> 00:40:21,359

vaccination anti-vaccination

1041

00:40:26,790 --> 00:40:24,960

segment you would

1042

00:40:28,230 --> 00:40:26,800

be aware after listening to the skeptic

1043

00:40:29,349 --> 00:40:28,240

zone for the last little while of the

1044

00:40:31,190 --> 00:40:29,359

vaxxed bus

1045

00:40:32,550 --> 00:40:31,200

and the work the australian skeptics did

1046

00:40:34,630 --> 00:40:32,560

to counter this vaxxed

1047

00:40:36,150 --> 00:40:34,640

bus the vaxxed bus is no longer

1048

00:40:39,589 --> 00:40:36,160

traveling at the moment

1049

00:40:41,190 --> 00:40:39,599

it plans to be again

1050

00:40:43,109 --> 00:40:41,200

and this notice has come to our

1051

00:40:45,670 --> 00:40:43,119

attention vaxxed

1052

00:40:47,109 --> 00:40:45,680

down under we are excited to announce

1053

00:40:50,390 --> 00:40:47,119

that the north queensland

1054

00:40:52,069 --> 00:40:50,400

vaxxed down under tour will begin on the

1055

00:40:54,069 --> 00:40:52,079

10th of september

1056

00:40:56,390 --> 00:40:54,079

if you live in north or central

1057

00:40:57,430 --> 00:40:56,400

queensland and want to meet up with the

1058

00:41:00,790 --> 00:40:57,440

bus

1059

00:41:02,470 --> 00:41:00,800

please fill out the survey monkey so we

1060

00:41:05,829 --> 00:41:02,480

know where to find you

1061

00:41:07,270 --> 00:41:05,839

and can plan accordingly and it provides

1062

00:41:11,270 --> 00:41:07,280

a link and also

1063

00:41:12,470 --> 00:41:11,280

lists some of the i guess the proposed

1064

00:41:15,829 --> 00:41:12,480

areas

1065

00:41:18,630 --> 00:41:15,839

where this vaxxed bus may be heading

1066

00:41:20,470 --> 00:41:18,640

so i'll read out the list published and

1067

00:41:22,470 --> 00:41:20,480

if you're in one of these areas or you

1068

00:41:24,870 --> 00:41:22,480

know someone in one of these areas

1069

00:41:26,950 --> 00:41:24,880

you may wish to take advantage of the

1070

00:41:29,990 --> 00:41:26,960

australian skeptics press release about

1071

00:41:32,950 --> 00:41:30,000

this vax bus and the people behind it

1072

00:41:34,390 --> 00:41:32,960

who to be blunt think that coronavirus

1073

00:41:37,829 --> 00:41:34,400

is a scam

1074

00:41:42,309 --> 00:41:37,839

and not a real threat so

1075

00:41:46,829 --> 00:41:42,319

people in gimpy harvey bay

1076

00:41:50,630 --> 00:41:46,839

bundaberg gladstone rockhampton

1077

00:41:54,710 --> 00:41:50,640

mackay townsville cairns

1078

00:41:59,190 --> 00:41:54,720

atherton greenvale charters towers

1079

00:42:03,190 --> 00:41:59,200

claremont emerald springs shore

1080

00:42:06,710 --> 00:42:03,200

ralston romer miles

1081

00:42:09,589 --> 00:42:06,720

chinchilla and dalby now

1082

00:42:10,230 --> 00:42:09,599

queensland being such a huge state that

1083

00:42:13,349 --> 00:42:10,240

covers a

1084

00:42:14,870 --> 00:42:13,359

very large area if you know anybody in

1085

00:42:17,190 --> 00:42:14,880

those areas or you

1086

00:42:18,950 --> 00:42:17,200

are in those areas you might want to

1087

00:42:20,950 --> 00:42:18,960

take a look at the

1088

00:42:22,069 --> 00:42:20,960

notice from australian skeptics i'll add

1089

00:42:23,910 --> 00:42:22,079

again

1090

00:42:25,829 --> 00:42:23,920

the link in this week's show notes or if

1091

00:42:27,829 --> 00:42:25,839

you just google australian skeptics and

1092

00:42:28,710 --> 00:42:27,839

get to the skeptics page you'll you'll

1093

00:42:32,150 --> 00:42:28,720

find

1094

00:42:34,309 --> 00:42:32,160

the the information about the vaxxed bus

1095

00:42:35,910 --> 00:42:34,319

very easily well there you are a little

1096

00:42:38,390 --> 00:42:35,920

bit of a winding road from the bench

1097

00:42:41,589 --> 00:42:38,400

spoon award to anti-vaccination

1098

00:42:43,270 --> 00:42:41,599

throw in some conspiracy theories and

1099

00:42:46,630 --> 00:42:43,280

some interesting issues

1100

00:42:48,950 --> 00:42:46,640

we must all face soon i hope we all have

1101
00:42:51,670 --> 00:42:48,960
to face soon with the uh

1102
00:42:52,950 --> 00:42:51,680
the vaccine once it becomes available

1103
00:42:57,030 --> 00:42:52,960
and

1104
00:42:59,030 --> 00:42:57,040
the vaxxed or vexed bus

1105
00:43:01,030 --> 00:42:59,040
and as ever we'll try to keep you

1106
00:43:15,349 --> 00:43:01,040
updated as best we can

1107
00:43:18,870 --> 00:43:17,589
i'm mick west in my podcast tales from

1108
00:43:20,230 --> 00:43:18,880
the rabbit hole i have extended

1109
00:43:22,150 --> 00:43:20,240
conversations with people who've been

1110
00:43:23,670 --> 00:43:22,160
involved in conspiracy culture

1111
00:43:25,109 --> 00:43:23,680
i do this for a couple of reasons

1112
00:43:25,990 --> 00:43:25,119
firstly because it's really interesting

1113
00:43:27,589 --> 00:43:26,000

these people have great

1114

00:43:29,270 --> 00:43:27,599

stories about how they fell down the

1115

00:43:30,150 --> 00:43:29,280

conspiracy theory rabbit hole what they

1116

00:43:31,750 --> 00:43:30,160

did down there

1117

00:43:33,109 --> 00:43:31,760

and what it was that helped them out

1118

00:43:34,790 --> 00:43:33,119

sometimes i also talk to people who

1119

00:43:36,309 --> 00:43:34,800

investigate conspiracy theories and they

1120

00:43:37,349 --> 00:43:36,319

have equally fascinating stories from

1121

00:43:39,190 --> 00:43:37,359

the other side

1122

00:43:40,630 --> 00:43:39,200

secondly i want to understand how best

1123

00:43:42,230 --> 00:43:40,640

to prevent the spread of conspiracy

1124

00:43:43,829 --> 00:43:42,240

theorism misinformation which is an

1125

00:43:45,829 --> 00:43:43,839

increasing problem in a time when

1126

00:43:47,190 --> 00:43:45,839

alternative media is exploding

1127

00:43:49,030 --> 00:43:47,200

the best way to do this is to

1128

00:43:49,670 --> 00:43:49,040

communicate effectively with the people

1129

00:43:51,510 --> 00:43:49,680

involved

1130

00:43:53,270 --> 00:43:51,520

and the best way to do that is with a

1131

00:43:56,570 --> 00:43:53,280

nice long chat

1132

00:44:06,829 --> 00:43:56,580

check it out tales from the rabbit hole

1133

00:44:06,839 --> 00:44:11,990

tftrh.com

1134

00:44:19,109 --> 00:44:16,069

yeah let's have a random

1135

00:44:19,119 --> 00:44:24,760

with dr paulie

1136

00:44:24,770 --> 00:44:28,150

[Music]

1137

00:44:31,910 --> 00:44:30,069

the journal psychological science

1138

00:44:33,510 --> 00:44:31,920

recently published a paper by pennywick

1139

00:44:34,470 --> 00:44:33,520

at al which sparked my skeptical

1140

00:44:37,030 --> 00:44:34,480

interest

1141

00:44:39,030 --> 00:44:37,040

it was entitled fighting covert 19

1142

00:44:40,870 --> 00:44:39,040

misinformation on social media

1143

00:44:43,270 --> 00:44:40,880

experimental evidence for scalable

1144

00:44:44,950 --> 00:44:43,280

accuracy nudge intervention

1145

00:44:46,870 --> 00:44:44,960

but given the title of course i felt

1146

00:44:48,550 --> 00:44:46,880

obliged to read it

1147

00:44:50,550 --> 00:44:48,560

the authors conducted a relatively

1148

00:44:51,270 --> 00:44:50,560

simple psychological experiment in two

1149

00:44:53,510 --> 00:44:51,280

stages

1150

00:44:54,950 --> 00:44:53,520

they wanted to see whether a small nudge

1151
00:44:57,109 --> 00:44:54,960
reminding people to think about the

1152
00:44:59,190 --> 00:44:57,119
accuracy of what they read

1153
00:45:01,270 --> 00:44:59,200
improve the likelihood of sharing true

1154
00:45:03,349 --> 00:45:01,280
claims and decrease the likelihood of

1155
00:45:05,270 --> 00:45:03,359
sharing false claims

1156
00:45:06,870 --> 00:45:05,280
the premise they claim is when we're

1157
00:45:09,109 --> 00:45:06,880
casually browsing on social media

1158
00:45:11,349 --> 00:45:09,119
websites such as facebook and twitter

1159
00:45:13,190 --> 00:45:11,359
we're more likely to be inattentive and

1160
00:45:13,910 --> 00:45:13,200
perhaps less likely to pay attention to

1161
00:45:17,349 --> 00:45:13,920
things like

1162
00:45:18,950 --> 00:45:17,359
accuracy for those of us who have ever

1163
00:45:22,230 --> 00:45:18,960

been on the internet ever

1164

00:45:24,069 --> 00:45:22,240

this will come as no surprise in stage

1165

00:45:26,150 --> 00:45:24,079

one of their experiment they looked at

1166

00:45:27,270 --> 00:45:26,160

baseline likelihood to share a set of

1167

00:45:29,670 --> 00:45:27,280

true and false

1168

00:45:31,750 --> 00:45:29,680

headlines i the headlines had true or

1169

00:45:33,750 --> 00:45:31,760

false

1170

00:45:35,270 --> 00:45:33,760

they had people assess how accurate they

1171

00:45:37,349 --> 00:45:35,280

thought the claim being made by the

1172

00:45:38,870 --> 00:45:37,359

headlines were

1173

00:45:41,270 --> 00:45:38,880

and whether or not they were likely to

1174

00:45:43,030 --> 00:45:41,280

share it and just to note that all the

1175

00:45:44,230 --> 00:45:43,040

headlines had something to do with cobra

1176

00:45:45,910 --> 00:45:44,240

19.

1177

00:45:48,309 --> 00:45:45,920

the researchers also assessed the

1178

00:45:50,950 --> 00:45:48,319

participants regarding how concerned

1179

00:45:51,910 --> 00:45:50,960

they were about cover 19 in general and

1180

00:45:55,190 --> 00:45:51,920

how often

1181

00:45:57,190 --> 00:45:55,200

they check the news regarding cobra 19.

1182

00:45:59,349 --> 00:45:57,200

they also assess them regarding their

1183

00:46:00,630 --> 00:45:59,359

level of reflective thinking

1184

00:46:02,150 --> 00:46:00,640

whether they were the kind of person

1185

00:46:03,750 --> 00:46:02,160

that goes to the doctor for every little

1186

00:46:05,670 --> 00:46:03,760

thing or the kind of person that avoids

1187

00:46:08,790 --> 00:46:05,680

the doctor altogether

1188

00:46:11,109 --> 00:46:08,800

their level of scientific knowledge and

1189

00:46:12,870 --> 00:46:11,119

their political ideology and it's worth

1190

00:46:14,309 --> 00:46:12,880

noting that this was based in the usa so

1191

00:46:17,109 --> 00:46:14,319

obviously the political ideology

1192

00:46:18,550 --> 00:46:17,119

reflected the political parties there

1193

00:46:20,630 --> 00:46:18,560

the second experiment was pretty much

1194

00:46:21,349 --> 00:46:20,640

the same except they randomized patients

1195

00:46:23,349 --> 00:46:21,359

who received

1196

00:46:25,589 --> 00:46:23,359

a nudge in order to think about the

1197

00:46:26,950 --> 00:46:25,599

accuracy of a claim

1198

00:46:29,829 --> 00:46:26,960

that didn't have anything to do with

1199

00:46:31,510 --> 00:46:29,839

cobra 19 and to not receive a nudge

1200

00:46:33,030 --> 00:46:31,520

the authors conclude that the nudge made

1201
00:46:33,990 --> 00:46:33,040
people more likely to consider the

1202
00:46:36,470 --> 00:46:34,000
accuracy

1203
00:46:37,270 --> 00:46:36,480
of the covert 19 headlines before they

1204
00:46:39,510 --> 00:46:37,280
shared it

1205
00:46:41,190 --> 00:46:39,520
and suggest that social media can easily

1206
00:46:42,230 --> 00:46:41,200
implement this sort of thing in order to

1207
00:46:44,150 --> 00:46:42,240
stimulate people

1208
00:46:45,910 --> 00:46:44,160
into thinking about the accuracy of what

1209
00:46:47,349 --> 00:46:45,920
they're sharing

1210
00:46:49,510 --> 00:46:47,359
look personally i'm a little bit dubious

1211
00:46:51,510 --> 00:46:49,520
that this will work in a sustained way

1212
00:46:54,230 --> 00:46:51,520
but that's not really what i wanted to

1213
00:46:55,990 --> 00:46:54,240

focus on today

1214

00:46:57,910 --> 00:46:56,000

the researchers also looked at a number

1215

00:46:58,950 --> 00:46:57,920

of correlations between those additional

1216

00:47:01,510 --> 00:46:58,960

measures i mentioned

1217

00:47:04,069 --> 00:47:01,520

earlier i whether or not they're likely

1218

00:47:05,670 --> 00:47:04,079

or the doctor or the reflective thinking

1219

00:47:08,390 --> 00:47:05,680

and their ability to work out which

1220

00:47:10,550 --> 00:47:08,400

headline has a true or false claim

1221

00:47:13,109 --> 00:47:10,560

and the likelihood they are then of

1222

00:47:16,230 --> 00:47:13,119

sharing that true or false claim

1223

00:47:18,710 --> 00:47:16,240

headline i'm not going to focus on

1224

00:47:20,549 --> 00:47:18,720

every little result presented because

1225

00:47:21,670 --> 00:47:20,559

honestly i think they milk the data a

1226

00:47:23,670 --> 00:47:21,680

little bit too much

1227

00:47:24,710 --> 00:47:23,680

with lots and lots of correlations but i

1228

00:47:27,349 --> 00:47:24,720

think there are some

1229

00:47:28,950 --> 00:47:27,359

things worth noting reflective thinking

1230

00:47:30,870 --> 00:47:28,960

and science knowledge were positively

1231

00:47:33,349 --> 00:47:30,880

correlated with spotting and sharing

1232

00:47:36,470 --> 00:47:33,359

true claims and negatively correlated

1233

00:47:37,990 --> 00:47:36,480

with sharing false claims so

1234

00:47:39,510 --> 00:47:38,000

what this is trying to say is that

1235

00:47:41,589 --> 00:47:39,520

people who are reflective thinkers

1236

00:47:43,190 --> 00:47:41,599

or have good science knowledge are more

1237

00:47:45,670 --> 00:47:43,200

likely to spot a true claim

1238

00:47:46,390 --> 00:47:45,680

and are also more likely to share them

1239

00:47:48,470 --> 00:47:46,400

and they're

1240

00:47:50,309 --> 00:47:48,480

also more likely to spot a false claim

1241

00:47:51,589 --> 00:47:50,319

and are less likely to share those false

1242

00:47:52,870 --> 00:47:51,599

claims

1243

00:47:55,030 --> 00:47:52,880

yeah look that's probably not that

1244

00:47:56,309 --> 00:47:55,040

surprising i mean it makes sense that

1245

00:47:58,069 --> 00:47:56,319

those who stop and think

1246

00:48:00,069 --> 00:47:58,079

or have good science knowledge to to

1247

00:48:01,670 --> 00:48:00,079

back themselves up

1248

00:48:03,829 --> 00:48:01,680

are going to be more likely to spot the

1249

00:48:06,950 --> 00:48:03,839

accuracy of a particular claim

1250

00:48:08,309 --> 00:48:06,960

however what i found more interesting is

1251

00:48:09,829 --> 00:48:08,319

that there's actually a stronger

1252

00:48:10,710 --> 00:48:09,839

correlation between the reflective

1253

00:48:14,150 --> 00:48:10,720

thinking

1254

00:48:16,950 --> 00:48:14,160

and spotting and sharing true claims

1255

00:48:18,710 --> 00:48:16,960

than there was with science knowledge it

1256

00:48:20,870 --> 00:48:18,720

seems to me that skeptics have been

1257

00:48:22,549 --> 00:48:20,880

right along critical thinking is a

1258

00:48:23,750 --> 00:48:22,559

better tool at deciphering true from

1259

00:48:26,549 --> 00:48:23,760

false claims

1260

00:48:27,750 --> 00:48:26,559

more so than science knowledge alone i

1261

00:48:30,069 --> 00:48:27,760

wondered if we could focus

1262

00:48:31,190 --> 00:48:30,079

more on this as an intervention critical

1263

00:48:32,950 --> 00:48:31,200

thinking

1264

00:48:34,950 --> 00:48:32,960

and how we could get the general public

1265

00:48:36,870 --> 00:48:34,960

to have these attributes i mean

1266

00:48:38,790 --> 00:48:36,880

that's what all of us would like the

1267

00:48:40,150 --> 00:48:38,800

whole world to be critical thinkers

1268

00:48:41,829 --> 00:48:40,160

right

1269

00:48:43,349 --> 00:48:41,839

i know we teach a lot of science content

1270

00:48:46,390 --> 00:48:43,359

to kids at schools

1271

00:48:48,870 --> 00:48:46,400

and you know not every kid likes science

1272

00:48:50,470 --> 00:48:48,880

but what i have heard is that there's

1273

00:48:51,430 --> 00:48:50,480

not much critical thinking and that

1274

00:48:54,630 --> 00:48:51,440

that's

1275

00:48:55,270 --> 00:48:54,640

missing from the curriculum luckily my

1276

00:48:56,950 --> 00:48:55,280

colleague

1277

00:48:58,790 --> 00:48:56,960

at the institute for evidence-based

1278

00:49:00,790 --> 00:48:58,800

healthcare bond university

1279

00:49:02,710 --> 00:49:00,800

professor tammy hoffman is trying to

1280

00:49:05,190 --> 00:49:02,720

solve this very problem

1281

00:49:06,549 --> 00:49:05,200

she's trying to teach high school kids

1282

00:49:08,060 --> 00:49:06,559

how to evaluate claims

1283

00:49:13,109 --> 00:49:08,070

and how to think critically

1284

00:49:16,710 --> 00:49:15,510

so tammy i've been telling the skeptic's

1285

00:49:17,670 --> 00:49:16,720

own listeners that you're currently

1286

00:49:19,670 --> 00:49:17,680

running a study

1287

00:49:21,510 --> 00:49:19,680

with high school kids teaching them how

1288

00:49:23,109 --> 00:49:21,520

to do critical thinking

1289

00:49:25,430 --> 00:49:23,119

um what prompted you to start this

1290

00:49:27,270 --> 00:49:25,440

project uh well two things first of all

1291

00:49:29,270 --> 00:49:27,280

my background is in helping people to

1292

00:49:30,309 --> 00:49:29,280

make informed health decisions so when

1293

00:49:33,190 --> 00:49:30,319

they're going to the doctor

1294

00:49:34,630 --> 00:49:33,200

or working out whether a treatment is

1295

00:49:36,069 --> 00:49:34,640

right for them and whether the benefits

1296

00:49:37,910 --> 00:49:36,079

outweigh the harms

1297

00:49:39,829 --> 00:49:37,920

and the more research that we did with

1298

00:49:41,109 --> 00:49:39,839

patients we realized that there's this

1299

00:49:43,670 --> 00:49:41,119

fundamental

1300

00:49:45,270 --> 00:49:43,680

lack of critical thinking about health

1301
00:49:47,109 --> 00:49:45,280
and assuming that everything a doctor

1302
00:49:48,549 --> 00:49:47,119
says is correct and everything they read

1303
00:49:51,270 --> 00:49:48,559
and health information on the internet

1304
00:49:52,230 --> 00:49:51,280
is correct um and so we started thinking

1305
00:49:54,950 --> 00:49:52,240
how do we

1306
00:49:57,030 --> 00:49:54,960
instill in people this sort of i guess

1307
00:49:57,349 --> 00:49:57,040
skepticism but critical thinking early

1308
00:50:00,710 --> 00:49:57,359
on

1309
00:50:02,230 --> 00:50:00,720
so that people are as they become adults

1310
00:50:03,430 --> 00:50:02,240
they're sort of already approaching

1311
00:50:06,069 --> 00:50:03,440
everything with uh

1312
00:50:07,190 --> 00:50:06,079
but why or is that really true sort of

1313
00:50:09,829 --> 00:50:07,200

frame

1314

00:50:10,470 --> 00:50:09,839

so at the same time some colleagues in

1315

00:50:13,510 --> 00:50:10,480

norway

1316

00:50:15,670 --> 00:50:13,520

and the uk we're working on a project

1317

00:50:17,829 --> 00:50:15,680

teaching primary school children to be

1318

00:50:19,430 --> 00:50:17,839

able to just get the basics of

1319

00:50:21,510 --> 00:50:19,440

thinking about whether a health claim

1320

00:50:25,030 --> 00:50:21,520

might be true or not

1321

00:50:27,829 --> 00:50:25,040

and so in conjunction with

1322

00:50:29,349 --> 00:50:27,839

um leila kuzak who's my phd student so

1323

00:50:30,710 --> 00:50:29,359

we're doing some work here in australia

1324

00:50:32,630 --> 00:50:30,720

thinking we're going to tackle high

1325

00:50:35,109 --> 00:50:32,640

school students for the first time and

1326

00:50:37,030 --> 00:50:35,119

start to just talk to them about

1327

00:50:39,190 --> 00:50:37,040

so everything on the internet everything

1328

00:50:40,069 --> 00:50:39,200

on health products everything on social

1329

00:50:42,069 --> 00:50:40,079

media

1330

00:50:43,589 --> 00:50:42,079

that claim makes a claim about health

1331

00:50:45,430 --> 00:50:43,599

that you actually need to stop and think

1332

00:50:46,870 --> 00:50:45,440

hang on what's the research behind that

1333

00:50:48,549 --> 00:50:46,880

claim and is it true

1334

00:50:50,150 --> 00:50:48,559

yeah and that that that would be

1335

00:50:51,270 --> 00:50:50,160

fantastic um you know

1336

00:50:53,349 --> 00:50:51,280

especially if we could get a whole

1337

00:50:55,510 --> 00:50:53,359

generation of skeptics

1338

00:50:58,069 --> 00:50:55,520

out there and that it indoctrinated him

1339

00:50:59,829 --> 00:50:58,079

into into the curriculum

1340

00:51:01,109 --> 00:50:59,839

um i'm actually really surprised that

1341

00:51:03,670 --> 00:51:01,119

this sort of thing isn't

1342

00:51:05,109 --> 00:51:03,680

in the curriculum already so you

1343

00:51:07,829 --> 00:51:05,119

mentioned it has been done before

1344

00:51:09,030 --> 00:51:07,839

in overseas in in primary school kids is

1345

00:51:10,630 --> 00:51:09,040

this not happening already

1346

00:51:12,710 --> 00:51:10,640

yeah so we were surprised too that was

1347

00:51:14,870 --> 00:51:12,720

one of the things we looked at is

1348

00:51:16,309 --> 00:51:14,880

we analyzed the australian curriculum

1349

00:51:17,990 --> 00:51:16,319

and a lot of teachers that we

1350

00:51:20,390 --> 00:51:18,000

interviewed also said no that in terms

1351

00:51:22,950 --> 00:51:20,400

of critical thinking it's just

1352

00:51:25,349 --> 00:51:22,960

it's not really covered much um in the

1353

00:51:27,750 --> 00:51:25,359

curriculum and a lot of teachers

1354

00:51:29,589 --> 00:51:27,760

um were hoping that you know would be

1355

00:51:31,430 --> 00:51:29,599

really wanting resources that would help

1356

00:51:34,390 --> 00:51:31,440

them sort of package up how to teach

1357

00:51:36,549 --> 00:51:34,400

um critical thinking so there's been a

1358

00:51:37,670 --> 00:51:36,559

large randomized control trial done in

1359

00:51:39,430 --> 00:51:37,680

uganda

1360

00:51:40,950 --> 00:51:39,440

of a few thousand primary school

1361

00:51:42,390 --> 00:51:40,960

children grade five

1362

00:51:44,309 --> 00:51:42,400

and they looked at could the teachers

1363

00:51:47,030 --> 00:51:44,319

there over a whole semester um

1364

00:51:48,950 --> 00:51:47,040

teach them some basics about health

1365

00:51:49,990 --> 00:51:48,960

claims and thinking about their accuracy

1366

00:51:51,510 --> 00:51:50,000

and that showed a significant

1367

00:51:53,430 --> 00:51:51,520

effect it was published in the lancet a

1368

00:51:55,270 --> 00:51:53,440

few years ago and they've just done a

1369

00:51:57,349 --> 00:51:55,280

release their 12-month follow-up results

1370

00:51:59,270 --> 00:51:57,359

and they retained that

1371

00:52:01,430 --> 00:51:59,280

difference so that's sort of the first

1372

00:52:03,030 --> 00:52:01,440

big study there's now quite a lot of

1373

00:52:05,190 --> 00:52:03,040

studies around the world that are trying

1374

00:52:06,950 --> 00:52:05,200

to implement translate those materials

1375

00:52:08,549 --> 00:52:06,960

into their respective languages

1376
00:52:10,549 --> 00:52:08,559
and that's run by something called the

1377
00:52:11,589 --> 00:52:10,559
informed health choices group based in

1378
00:52:13,670 --> 00:52:11,599
norway

1379
00:52:15,190 --> 00:52:13,680
cool but no one as of yet has done high

1380
00:52:16,630 --> 00:52:15,200
school students yeah and we thought

1381
00:52:17,990 --> 00:52:16,640
that's the time when teenagers are

1382
00:52:20,069 --> 00:52:18,000
really starting to have a say

1383
00:52:21,349 --> 00:52:20,079
with may not be you know medical

1384
00:52:23,349 --> 00:52:21,359
decisions and you know

1385
00:52:26,230 --> 00:52:23,359
they're usually not on medications or

1386
00:52:28,390 --> 00:52:26,240
having big health decisions but they are

1387
00:52:30,549 --> 00:52:28,400
getting lots of exposure to things like

1388
00:52:31,270 --> 00:52:30,559

acne treatments and shampoo that makes

1389

00:52:33,990 --> 00:52:31,280

your hair

1390

00:52:34,950 --> 00:52:34,000

glossier and fuller and you know sports

1391

00:52:37,430 --> 00:52:34,960

drinks and

1392

00:52:39,190 --> 00:52:37,440

um athletic shoes and all of these

1393

00:52:41,030 --> 00:52:39,200

products that are making health claims

1394

00:52:43,750 --> 00:52:41,040

and they're you know on social media

1395

00:52:45,349 --> 00:52:43,760

and seeing instagram and facebook ads

1396

00:52:47,349 --> 00:52:45,359

and twitter ads promoting all this stuff

1397

00:52:49,430 --> 00:52:47,359

using the claim language so

1398

00:52:50,470 --> 00:52:49,440

it's actually an ideal time we think to

1399

00:52:53,109 --> 00:52:50,480

start

1400

00:52:54,549 --> 00:52:53,119

um teenagers just critically thinking

1401

00:52:57,190 --> 00:52:54,559

stopping and thinking hang on

1402

00:52:59,349 --> 00:52:57,200

is this claim um you know is there

1403

00:53:01,990 --> 00:52:59,359

research backing up this claim

1404

00:53:03,430 --> 00:53:02,000

so and and tammy i'm really interested

1405

00:53:05,510 --> 00:53:03,440

to know and i guess everyone

1406

00:53:07,430 --> 00:53:05,520

um you know listening to the podcast you

1407

00:53:08,069 --> 00:53:07,440

know keen to know what is it that you're

1408

00:53:09,990 --> 00:53:08,079

actually

1409

00:53:11,910 --> 00:53:10,000

doing with with the kids so what we've

1410

00:53:14,870 --> 00:53:11,920

developed so we did a few

1411

00:53:16,390 --> 00:53:14,880

um precursor studies so some qualitative

1412

00:53:18,069 --> 00:53:16,400

work with australian teenagers and a

1413

00:53:18,870 --> 00:53:18,079

systematic review of all the existing

1414

00:53:20,790 --> 00:53:18,880

interventions

1415

00:53:23,990 --> 00:53:20,800

and confirmed that there are none in

1416

00:53:25,910 --> 00:53:24,000

high schoolers and we took some of the

1417

00:53:27,270 --> 00:53:25,920

relevant bits from existing studies and

1418

00:53:29,349 --> 00:53:27,280

we've developed a four

1419

00:53:31,030 --> 00:53:29,359

module course called health hack and

1420

00:53:33,750 --> 00:53:31,040

health hack obviously

1421

00:53:35,910 --> 00:53:33,760

but this is h a double c and it stands

1422

00:53:38,230 --> 00:53:35,920

for how to assess claims critically

1423

00:53:40,470 --> 00:53:38,240

so it's four modules each module is

1424

00:53:42,790 --> 00:53:40,480

meant to be about the length of one

1425

00:53:44,710 --> 00:53:42,800

classroom lessons so that was 50 minutes

1426
00:53:46,390 --> 00:53:44,720
and it's designed for teachers to teach

1427
00:53:48,230 --> 00:53:46,400
it so it's not a workshop that we're

1428
00:53:49,829 --> 00:53:48,240
going to do we did during the piloting

1429
00:53:52,470 --> 00:53:49,839
but you know in terms of

1430
00:53:53,109 --> 00:53:52,480
dissemination and scalability it's aimed

1431
00:53:55,750 --> 00:53:53,119
at something

1432
00:53:57,430 --> 00:53:55,760
the teachers can develop and can deliver

1433
00:53:59,270 --> 00:53:57,440
so there's a teacher's guide and all the

1434
00:54:02,390 --> 00:53:59,280
powerpoint slides and a teacher's manual

1435
00:54:03,990 --> 00:54:02,400
there's a student activity booklet

1436
00:54:05,910 --> 00:54:04,000
and it takes them through all the

1437
00:54:07,750 --> 00:54:05,920
activities hope to learn and hopefully

1438
00:54:10,470 --> 00:54:07,760

what's a fun and engaging way

1439

00:54:12,390 --> 00:54:10,480

so that teenagers can sort of finish

1440

00:54:14,549 --> 00:54:12,400

these four lessons and go huh the next

1441

00:54:15,030 --> 00:54:14,559

time i look at a claim on a product or

1442

00:54:16,790 --> 00:54:15,040

on

1443

00:54:18,390 --> 00:54:16,800

an ad or in a magazine that they

1444

00:54:19,750 --> 00:54:18,400

actually stop and think

1445

00:54:21,430 --> 00:54:19,760

is it for real what's the research

1446

00:54:23,030 --> 00:54:21,440

behind it what type of research should i

1447

00:54:24,950 --> 00:54:23,040

believe this

1448

00:54:27,190 --> 00:54:24,960

and it can be taught in any subject

1449

00:54:29,190 --> 00:54:27,200

we've aimed it at years seven to nine

1450

00:54:31,030 --> 00:54:29,200

but most schools that are taking part

1451

00:54:33,030 --> 00:54:31,040

seem to be situating it within the

1452

00:54:35,589 --> 00:54:33,040

science curricula but it could also go

1453

00:54:36,950 --> 00:54:35,599

in you know health and pe or some

1454

00:54:39,670 --> 00:54:36,960

schools have digital

1455

00:54:40,630 --> 00:54:39,680

media digital subjects but it mostly

1456

00:54:41,910 --> 00:54:40,640

seems to

1457

00:54:44,069 --> 00:54:41,920

lend itself to sitting within the

1458

00:54:45,990 --> 00:54:44,079

science curriculum great

1459

00:54:47,190 --> 00:54:46,000

um and i'm sure we've got lots of

1460

00:54:49,030 --> 00:54:47,200

listeners

1461

00:54:50,390 --> 00:54:49,040

that are high school teachers that are

1462

00:54:53,829 --> 00:54:50,400

listening in and wondering

1463

00:54:55,510 --> 00:54:53,839

oh gosh how can i join this study um

1464

00:54:57,270 --> 00:54:55,520

is there any way that people can contact

1465

00:54:59,510 --> 00:54:57,280

you if they're interested absolutely yep

1466

00:55:01,910 --> 00:54:59,520

so we've got um ethical approval to do

1467

00:55:04,069 --> 00:55:01,920

the study in any australian

1468

00:55:06,309 --> 00:55:04,079

high school a private high school we

1469

00:55:09,430 --> 00:55:06,319

have approval to do it in um

1470

00:55:11,589 --> 00:55:09,440

victorian state high schools um

1471

00:55:13,190 --> 00:55:11,599

paused for the moment walk the covert

1472

00:55:14,710 --> 00:55:13,200

outbreak down there but hopefully early

1473

00:55:16,230 --> 00:55:14,720

next year we can resume that but

1474

00:55:18,789 --> 00:55:16,240

certainly right now we're

1475

00:55:21,109 --> 00:55:18,799

actively recruiting for any high schools

1476

00:55:23,510 --> 00:55:21,119

independent high schools in australia

1477

00:55:24,150 --> 00:55:23,520

and um if someone if you want to email

1478

00:55:27,270 --> 00:55:24,160

me

1479

00:55:30,390 --> 00:55:27,280

it's t hoffman h o double f m a double n

1480

00:55:32,069 --> 00:55:30,400

at bond.edu.au i can

1481

00:55:34,390 --> 00:55:32,079

send all the details needed and we

1482

00:55:36,230 --> 00:55:34,400

provide all the resources needed and

1483

00:55:37,670 --> 00:55:36,240

yep help teachers to be able to deliver

1484

00:55:39,829 --> 00:55:37,680

this some are delivering it

1485

00:55:41,109 --> 00:55:39,839

sort of over four lessons in one week

1486

00:55:42,950 --> 00:55:41,119

other schools are saying we're going to

1487

00:55:44,309 --> 00:55:42,960

do it as a half day activity at the end

1488

00:55:45,589 --> 00:55:44,319

of term when all the assessment's

1489

00:55:47,270 --> 00:55:45,599

finished and there's you know

1490

00:55:49,030 --> 00:55:47,280

not much else to fill in the day rather

1491

00:55:50,630 --> 00:55:49,040

than watching a movie or something we'll

1492

00:55:51,750 --> 00:55:50,640

do a half day workshop on critical

1493

00:55:53,589 --> 00:55:51,760

thinking

1494

00:55:55,030 --> 00:55:53,599

which we think is fantastic so any

1495

00:55:55,750 --> 00:55:55,040

schools that are interested please get

1496

00:55:57,990 --> 00:55:55,760

in touch

1497

00:56:03,230 --> 00:55:58,000

perfect thanks so much tammy and good

1498

00:56:16,549 --> 00:56:03,240

luck with it thank you

1499

00:56:21,270 --> 00:56:18,230

thank you for listening to the skeptic

1500

00:56:22,069 --> 00:56:21,280

zone now i'd like to announce our new

1501
00:56:24,390 --> 00:56:22,079
reporter

1502
00:56:25,589 --> 00:56:24,400
jennifer hathawn now jennifer i've known

1503
00:56:27,910 --> 00:56:25,599
for many years

1504
00:56:28,789 --> 00:56:27,920
well on and off i originally met

1505
00:56:32,150 --> 00:56:28,799
jennifer

1506
00:56:34,789 --> 00:56:32,160
at dragoncon over 10 years ago

1507
00:56:35,589 --> 00:56:34,799
and we sort of didn't really keep in

1508
00:56:37,349 --> 00:56:35,599
touch

1509
00:56:39,109 --> 00:56:37,359
because there was a big gap where i

1510
00:56:41,670 --> 00:56:39,119
wasn't going to dragoncon

1511
00:56:43,589 --> 00:56:41,680
and when i went back to dragoncon just

1512
00:56:46,870 --> 00:56:43,599
last year there she was

1513
00:56:47,750 --> 00:56:46,880

and uh i did an interview with her on

1514

00:56:49,349 --> 00:56:47,760

the spot

1515

00:56:52,390 --> 00:56:49,359

and her new segment is going to be

1516

00:56:54,470 --> 00:56:52,400

called here is my two cents worth

1517

00:56:55,910 --> 00:56:54,480

that will be coming uh up soon reports

1518

00:56:58,390 --> 00:56:55,920

from jennifer will be coming up soon but

1519

00:57:00,470 --> 00:56:58,400

just getting back to her bio

1520

00:57:02,870 --> 00:57:00,480

jennifer is a skeptic and science

1521

00:57:05,190 --> 00:57:02,880

enthusiast from the united states

1522

00:57:06,549 --> 00:57:05,200

her lifelong passion for scientific

1523

00:57:09,990 --> 00:57:06,559

knowledge led her to

1524

00:57:12,549 --> 00:57:10,000

pursue a career in environmental science

1525

00:57:13,430 --> 00:57:12,559

she earned her master's in geography

1526
00:57:15,910 --> 00:57:13,440
from

1527
00:57:18,390 --> 00:57:15,920
louisiana state university and a

1528
00:57:21,030 --> 00:57:18,400
bachelor of science in biology from

1529
00:57:21,589 --> 00:57:21,040
university of south alabama and it goes

1530
00:57:24,390 --> 00:57:21,599
on her

1531
00:57:26,710 --> 00:57:24,400
interest in skepticism blossomed along

1532
00:57:29,990 --> 00:57:26,720
with her love of science and she became

1533
00:57:33,109 --> 00:57:30,000
involved with the skeptics at dragoncon

1534
00:57:35,430 --> 00:57:33,119
in 2007 as a fan

1535
00:57:36,950 --> 00:57:35,440
and i think jennifer told me that she

1536
00:57:39,670 --> 00:57:36,960
hasn't missed a dragon con

1537
00:57:41,589 --> 00:57:39,680
since welcome jennifer to the show and

1538
00:57:43,349 --> 00:57:41,599

we look forward to your reports

1539

00:57:45,349 --> 00:57:43,359

and speaking of jennifer of course you

1540

00:57:47,430 --> 00:57:45,359

would have heard jennifer earlier

1541

00:57:49,030 --> 00:57:47,440

in the show during the solar flare

1542

00:57:51,829 --> 00:57:49,040

moonshot segment

1543

00:57:53,670 --> 00:57:51,839

and a big thank you to jennifer for

1544

00:57:56,789 --> 00:57:53,680

providing her voice

1545

00:58:00,069 --> 00:57:56,799

and brian dunning and ben radford

1546

00:58:01,510 --> 00:58:00,079

what a crew a big shout out to maynard i

1547

00:58:04,710 --> 00:58:01,520

helped produce

1548

00:58:07,990 --> 00:58:04,720

maynard's live

1549

00:58:10,870 --> 00:58:08,000

mad club show over the last few days

1550

00:58:12,470 --> 00:58:10,880

if you go to maynard.com.eu you can see

1551
00:58:14,870 --> 00:58:12,480
that craziness

1552
00:58:16,789 --> 00:58:14,880
and before we go a big thank you as ever

1553
00:58:18,870 --> 00:58:16,799
to those wonderful people who help

1554
00:58:22,230 --> 00:58:18,880
support the skeptic zone via patreon or

1555
00:58:24,710 --> 00:58:22,240
paypal at skepticzone.tv

1556
00:58:26,870 --> 00:58:24,720
thank you people you can sit back and

1557
00:58:28,710 --> 00:58:26,880
have an extra cup of tea

1558
00:58:30,470 --> 00:58:28,720
knowing that it's your contribution that

1559
00:58:32,549 --> 00:58:30,480
means everybody else

1560
00:58:33,990 --> 00:58:32,559
can enjoy the show and if you're

1561
00:58:36,309 --> 00:58:34,000
everybody else

1562
00:58:37,430 --> 00:58:36,319
maybe you can consider supporting the

1563
00:58:39,750 --> 00:58:37,440

show as well

1564

00:58:41,030 --> 00:58:39,760

that would be much appreciated but for

1565

00:58:43,030 --> 00:58:41,040

this week

1566

00:58:49,270 --> 00:58:43,040

this is richard saunders signing off

1567

00:58:52,549 --> 00:58:51,030

you've been listening to the skeptic

1568

00:58:55,710 --> 00:58:52,559

zone podcast

1569

00:58:57,109 --> 00:58:55,720

please visit our website at

1570

00:59:00,150 --> 00:58:57,119

www.skepticzone.tv

1571

00:59:02,150 --> 00:59:00,160

for show notes contacts and to access

1572

00:59:05,670 --> 00:59:02,160

the back catalog of episodes

1573

00:59:07,750 --> 00:59:05,680

going back to 2008 you can follow the

1574

00:59:11,190 --> 00:59:07,760

skeptic zone podcast on twitter

1575

00:59:14,710 --> 00:59:11,200

at skepticzone visit our facebook page

1576

00:59:16,150 --> 00:59:14,720

or leave a review on itunes you can also

1577

00:59:19,349 --> 00:59:16,160

support the skeptic zone

1578

00:59:20,150 --> 00:59:19,359

via patreon or paypal the skeptic zone

1579

00:59:23,030 --> 00:59:20,160

podcast

1580

00:59:24,789 --> 00:59:23,040

is an independent production the views

1581

00:59:25,270 --> 00:59:24,799

and opinions expressed on the skeptic

1582

00:59:27,270 --> 00:59:25,280

zone

1583

00:59:28,470 --> 00:59:27,280

are not necessarily those of australian