

Episode **608**

THE  
**SKEPTIC  
ZONE**  
PODCAST

[www.skepticzone.tv](http://www.skepticzone.tv)

7 June 2020

Hunting Quack Machines  
with the Jellybean Lady

About Time!  
Susan Gerbic's  
"Psychic Sting" update

Logical Fallacies  
with Michelle Bijkersma

Newsletter from  
Australian Skeptics

Stardust catches  
the Carnivores



1  
00:00:11,860 --> 00:00:09,100  
welcome to the skeptic zone the podcast

2  
00:00:13,940 --> 00:00:11,870  
from Australia for science and reason

3  
00:00:16,840 --> 00:00:13,950  
[Music]

4  
00:00:22,840 --> 00:00:16,850  
[Applause]

5  
00:00:25,370 --> 00:00:22,850  
[Music]

6  
00:00:30,130 --> 00:00:25,380  
yes it's the skeptic zone podcast

7  
00:00:33,110 --> 00:00:30,140  
episode number 608 for the 7th of June

8  
00:00:35,869 --> 00:00:33,120  
2020 Richard Saunders coming to you from

9  
00:00:38,119 --> 00:00:35,879  
Sydney Australia now I'm not having a

10  
00:00:40,460 --> 00:00:38,129  
lazy afternoon I'm having a busy morning

11  
00:00:42,410 --> 00:00:40,470  
putting together the skeptic zone and

12  
00:00:44,210 --> 00:00:42,420  
what a show we have for you this week

13  
00:00:46,130 --> 00:00:44,220

we're gonna kick off with an interview

14

00:00:49,340 --> 00:00:46,140

and the dear old friend of mine Loretta

15

00:00:51,560 --> 00:00:49,350

Marin also known as the jelly bean lady

16

00:00:54,139 --> 00:00:51,570

why is she known as the jelly bean lady

17

00:00:58,119 --> 00:00:54,149

well for years she's been campaigning

18

00:01:01,270 --> 00:00:58,129

against the quackery the absurdity the

19

00:01:05,080 --> 00:01:01,280

ridiculous legally the predict that

20

00:01:07,850 --> 00:01:05,090

ridiculous earth Rivard the bizarre

21

00:01:11,359 --> 00:01:07,860

methodology known as homeopathy

22

00:01:13,420 --> 00:01:11,369

and she was famous for carrying around a

23

00:01:16,389 --> 00:01:13,430

large jar of jelly means to say that

24

00:01:20,090 --> 00:01:16,399

sugar the jelly beans made out of sugar

25

00:01:22,100 --> 00:01:20,100

for just as effective as homeopathy but

26

00:01:23,779 --> 00:01:22,110

also she turned her attention to the bio

27

00:01:25,490 --> 00:01:23,789

machines we've been discussing on the

28

00:01:28,039 --> 00:01:25,500

sceptic zones these are the ones who you

29

00:01:29,780 --> 00:01:28,049

hook yourself up to something on your

30

00:01:33,200 --> 00:01:29,790

head or your arm or your foot or who

31

00:01:37,819 --> 00:01:33,210

knows where and those where and some

32

00:01:40,100 --> 00:01:37,829

machine pretends or claims or appears to

33

00:01:42,560 --> 00:01:40,110

scan your body with magical waves and

34

00:01:44,810 --> 00:01:42,570

then the results are shown on a computer

35

00:01:46,640 --> 00:01:44,820

screen or a buzzing buzzes Apple or

36

00:01:49,609 --> 00:01:46,650

something or other and these machines

37

00:01:52,340 --> 00:01:49,619

also claim to send energy back into your

38

00:01:54,740 --> 00:01:52,350

body to kill viruses and parasites not

39

00:01:57,710 --> 00:01:54,750

even dr. McCoy had something like this

40

00:02:00,020 --> 00:01:57,720

find out more when we chat to Loretta

41

00:02:02,990 --> 00:02:00,030

Marin from the Friends of Science in

42

00:02:04,969 --> 00:02:03,000

medicine after that would say follow-up

43

00:02:07,310 --> 00:02:04,979

report from susan gerbic from guerrilla

44

00:02:09,440 --> 00:02:07,320

skepticism on wikipedia you will

45

00:02:13,130 --> 00:02:09,450

remember last week she discussed the

46

00:02:15,590 --> 00:02:13,140

sting a psychic sting she did in New

47

00:02:17,870 --> 00:02:15,600

Zealand or she was in California but the

48

00:02:20,240 --> 00:02:17,880

psychic was in New Zealand while the New

49

00:02:23,660 --> 00:02:20,250

Zealand media have now taken up the

50

00:02:26,890 --> 00:02:23,670

story of this so-called psychic offering

- 51  
00:02:29,390 --> 00:02:26,900  
what can be best described as an
- 52  
00:02:32,090 --> 00:02:29,400  
extremely questionable health advice
- 53  
00:02:34,430 --> 00:02:32,100  
when it comes to preventing covert night
- 54  
00:02:37,310 --> 00:02:34,440  
team and then it's the return
- 55  
00:02:39,350 --> 00:02:37,320  
Michelle because ma with logical
- 56  
00:02:42,770 --> 00:02:39,360  
fallacies this week Michelle looks at
- 57  
00:02:44,780 --> 00:02:42,780  
the force equivalence fallacy this is
- 58  
00:02:47,240 --> 00:02:44,790  
when it is argued that two different
- 59  
00:02:50,960 --> 00:02:47,250  
things or points of view that may only
- 60  
00:02:55,400 --> 00:02:50,970  
have passing or superficial similarities
- 61  
00:02:57,650 --> 00:02:55,410  
are in fact logically equivalent can you
- 62  
00:02:59,930 --> 00:02:57,660  
compare apples with oranges find out
- 63  
00:03:02,780 --> 00:02:59,940

with Michelle because ma then we have

64

00:03:06,350 --> 00:03:02,790

some news from the newsletter of

65

00:03:09,530 --> 00:03:06,360

Australian skeptics number 99 newsletter

66

00:03:12,740 --> 00:03:09,540

number 99 and to round off the show I

67

00:03:15,380 --> 00:03:12,750

chat to author Bailey Harris in the

68

00:03:17,210 --> 00:03:15,390

United States and here in Brisbane I

69

00:03:20,630 --> 00:03:17,220

chat to Ariel Massey these two women

70

00:03:24,710 --> 00:03:20,640

have got together got together to create

71

00:03:27,920 --> 00:03:24,720

and go extinct Stardust catches the

72

00:03:31,070 --> 00:03:27,930

carnivores a new board game about

73

00:03:35,030 --> 00:03:31,080

evolution teaching kids all about

74

00:03:38,150 --> 00:03:35,040

evolution in this instance about

75

00:03:40,610 --> 00:03:38,160

carnivores also in this interview you

76

00:03:43,490 --> 00:03:40,620

can find out how you can help with this

77

00:03:45,380 --> 00:03:43,500

project yourself stay tuned at the end

78

00:03:47,540 --> 00:03:45,390

of the show for more announcements from

79

00:03:50,330 --> 00:03:47,550

me but now it's time for me to run

80

00:03:52,190 --> 00:03:50,340

downstairs jumping over the cats who've

81

00:03:55,010 --> 00:03:52,200

already had their breakfast

82

00:03:59,449 --> 00:03:55,020

they've already ran downstairs about 10

83

00:04:02,060 --> 00:03:59,459

minutes ago and had their lovely cat

84

00:04:04,009 --> 00:04:02,070

kibbles don't know what they taste like

85

00:04:06,380 --> 00:04:04,019

I better not find out now it's time for

86

00:04:08,410 --> 00:04:06,390

me to run downstairs and have something

87

00:04:12,979 --> 00:04:08,420

which I have occasionally which is

88

00:04:15,470 --> 00:04:12,989

freshly toasted toast do you toast toast

89

00:04:19,310 --> 00:04:15,480

now you toast bread some freshly toasted

90

00:04:22,430 --> 00:04:19,320

bread which is toast a little bit of

91

00:04:25,340 --> 00:04:22,440

just a little bit of chilli sauce peanut

92

00:04:28,690 --> 00:04:25,350

butter on top of that and a few peanuts

93

00:04:33,230 --> 00:04:28,700

on top of that so it's sort of like a

94

00:04:35,780 --> 00:04:33,240

chili satay sauce in Hawaii on toast hmm

95

00:04:38,360 --> 00:04:35,790

it's pretty good well I think so well I

96

00:04:38,800 --> 00:04:38,370

do that I hope you enjoy the skeptic

97

00:05:00,980 --> 00:04:38,810

zone

98

00:05:03,420 --> 00:05:00,990

[Music]

99

00:05:04,710 --> 00:05:03,430

folks a couple of weeks ago on the show

100

00:05:07,680 --> 00:05:04,720

you would have heard us talking about

101

00:05:10,740 --> 00:05:07,690

these bio machines these feedback

102

00:05:14,790 --> 00:05:10,750

machines these bio resonance machines

103

00:05:16,740 --> 00:05:14,800

that plague our society still machines

104

00:05:19,140 --> 00:05:16,750

you hook onto yourself or you get

105

00:05:21,390 --> 00:05:19,150

strapped up to they send a mystical

106

00:05:23,730 --> 00:05:21,400

magical energy wave or waves or

107

00:05:26,490 --> 00:05:23,740

something through your body they bounce

108

00:05:28,310 --> 00:05:26,500

around your organs and fed back so the

109

00:05:32,670 --> 00:05:28,320

naturopath or the natural health

110

00:05:35,940 --> 00:05:32,680

provider in question can then read the

111

00:05:37,950 --> 00:05:35,950

results and suggest some treatment

112

00:05:40,430 --> 00:05:37,960

joining me now on the line from

113

00:05:42,570 --> 00:05:40,440

Queensland is somebody who has been

114

00:05:44,450 --> 00:05:42,580

investigating these machines for years

115

00:05:48,180 --> 00:05:44,460

it's the jelly bean lady

116

00:05:50,400 --> 00:05:48,190

Loretta Marin good morning Richard now I

117

00:05:52,890 --> 00:05:50,410

asked you to drop by the skeptic zone

118

00:05:54,450 --> 00:05:52,900

today because it's for so many years

119

00:05:57,180 --> 00:05:54,460

you've been investigating these machines

120

00:05:59,910 --> 00:05:57,190

what could we call them broadly what

121

00:06:04,860 --> 00:05:59,920

could we say they bioresonance zapping

122

00:06:06,480 --> 00:06:04,870

type frequency energy devices oh wait

123

00:06:09,330 --> 00:06:06,490

there's two ways one you can call them

124

00:06:11,340 --> 00:06:09,340

electrical quack machines but generally

125

00:06:14,520 --> 00:06:11,350

we refer to them as electrodermal

126  
00:06:17,430 --> 00:06:14,530  
screening devices electrodermal meaning

127  
00:06:20,820 --> 00:06:17,440  
yes the electricity passes along your

128  
00:06:23,280 --> 00:06:20,830  
skin and diagnoses all that ails you and

129  
00:06:25,470 --> 00:06:23,290  
fixes it to exactly right exactly right

130  
00:06:27,870 --> 00:06:25,480  
and we've mentioned many times on the

131  
00:06:29,670 --> 00:06:27,880  
show this the one I've personally seen

132  
00:06:33,780 --> 00:06:29,680  
and some of the members of the skeptic

133  
00:06:37,020 --> 00:06:33,790  
zone this Metatron NLS Metatron

134  
00:06:38,940 --> 00:06:37,030  
nonlinear scanner the device from Russia

135  
00:06:41,250 --> 00:06:38,950  
but no matter where they're from I know

136  
00:06:43,560 --> 00:06:41,260  
that you must have come across many of

137  
00:06:46,380 --> 00:06:43,570  
these machines I've counted about 30

138  
00:06:48,240 --> 00:06:46,390

that are still being used now in fact I

139

00:06:51,450 --> 00:06:48,250

listed them all than they were attached

140

00:06:53,700 --> 00:06:51,460

to a report to the TGA just to show the

141

00:06:55,850 --> 00:06:53,710

depths of these machines which cost from

142

00:06:58,740 --> 00:06:55,860

you know maybe a few hundred dollars to

143

00:07:00,690 --> 00:06:58,750

more thousands of dollars 25

144

00:07:04,590 --> 00:07:00,700

my thousand dollars they're not cheap

145

00:07:05,910 --> 00:07:04,600

yes indeed not cheap at all and there

146

00:07:08,250 --> 00:07:05,920

are lots of people out there making

147

00:07:09,930 --> 00:07:08,260

serious money by selling these machines

148

00:07:12,570 --> 00:07:09,940

and they sell them through natural

149

00:07:15,090 --> 00:07:12,580

health proponents or naturopaths for

150

00:07:17,460 --> 00:07:15,100

example who who really do think that

151  
00:07:18,720 --> 00:07:17,470  
these machines work now I notice here in

152  
00:07:23,400 --> 00:07:18,730  
the little report that you've sent me

153  
00:07:27,090 --> 00:07:23,410  
that in 2010 there were over 220 of

154  
00:07:29,670 --> 00:07:27,100  
these websites listed well back in in

155  
00:07:31,590 --> 00:07:29,680  
those time a decade ago now I had

156  
00:07:32,250 --> 00:07:31,600  
decided that I was getting nowhere with

157  
00:07:36,210 --> 00:07:32,260  
the TGA

158  
00:07:38,880 --> 00:07:36,220  
and I thought well if they could ignore

159  
00:07:41,670 --> 00:07:38,890  
me but could they ignore the individual

160  
00:07:45,210 --> 00:07:41,680  
states so I went around the internet and

161  
00:07:47,490 --> 00:07:45,220  
I found over 220 websites I then sorted

162  
00:07:49,080 --> 00:07:47,500  
them by state and then put them in

163  
00:07:52,380 --> 00:07:49,090

reports which you can see are about a

164

00:07:54,510 --> 00:07:52,390

centimeter thick and that included every

165

00:07:57,150 --> 00:07:54,520

image from every website the names and

166

00:08:00,240 --> 00:07:57,160

addresses and I sent them all out to the

167

00:08:02,790 --> 00:08:00,250

individual states and I waited and what

168

00:08:05,460 --> 00:08:02,800

happened is West Australia came back to

169

00:08:07,350 --> 00:08:05,470

me and said Loretta what are these

170

00:08:09,480 --> 00:08:07,360

things and I said well if you put your

171

00:08:10,650 --> 00:08:09,490

wet finger on a light switch you get a

172

00:08:12,810 --> 00:08:10,660

little bit of a tingle

173

00:08:14,490 --> 00:08:12,820

I said that's pretty much what it is is

174

00:08:17,130 --> 00:08:14,500

that little tiny amount of electricity

175

00:08:18,750 --> 00:08:17,140

going through your body and she said

176

00:08:21,450 --> 00:08:18,760

well I know what you mean my husband's

177

00:08:24,900 --> 00:08:21,460

an electrician so that was good and then

178

00:08:26,909 --> 00:08:24,910

I was contacted by Victoria and they

179

00:08:28,350 --> 00:08:26,919

came up with the same question and I

180

00:08:32,909 --> 00:08:28,360

said why don't you talk to West

181

00:08:34,560 --> 00:08:32,919

Australia well the next thing I knew the

182

00:08:37,020 --> 00:08:34,570

devices were some of the devices were

183

00:08:39,779 --> 00:08:37,030

cancelled but not all of them one caller

184

00:08:41,130 --> 00:08:39,789

by cohn they told me it was canceled but

185

00:08:44,159 --> 00:08:41,140

when I had to look it was still there

186

00:08:46,890 --> 00:08:44,169

and that's taken a decade of writing to

187

00:08:48,030 --> 00:08:46,900

the TGA to get that one removed there's

188

00:08:50,970 --> 00:08:48,040

also one that you've brought to my

189

00:08:52,770 --> 00:08:50,980

notice called the cyber scan is that a

190

00:08:55,710 --> 00:08:52,780

similar sort of thing the cyber scan

191

00:08:58,200 --> 00:08:55,720

actually came after 2010 it was listed

192

00:09:00,090 --> 00:08:58,210

with the TGA a few years later so I

193

00:09:02,370 --> 00:09:00,100

didn't have it on the initial reports

194

00:09:04,770 --> 00:09:02,380

but it's a similar sort of sort of thing

195

00:09:07,320 --> 00:09:04,780

effect they all are they have some sort

196

00:09:10,460 --> 00:09:07,330

of idea that they're based on quantum

197

00:09:12,400 --> 00:09:10,470

physics homeopathy and acupuncture and

198

00:09:14,889 --> 00:09:12,410

this is

199

00:09:18,100 --> 00:09:14,899

just there to remove your toxins or

200

00:09:19,600 --> 00:09:18,110

identify chemicals poisons viruses

201

00:09:21,579 --> 00:09:19,610

bacteria they claim they can kill

202

00:09:23,559 --> 00:09:21,589

viruses what they stayed is that

203

00:09:26,050 --> 00:09:23,569

everything on the planet has a frequency

204

00:09:28,660 --> 00:09:26,060

and these machines can detect that

205

00:09:32,319 --> 00:09:28,670

frequency and using quantum physics can

206

00:09:34,540 --> 00:09:32,329

turn it around and zap the virus

207

00:09:37,210 --> 00:09:34,550

bacteria with the same frequency and

208

00:09:38,920 --> 00:09:37,220

you're cured cancer as well that's on

209

00:09:40,329 --> 00:09:38,930

the list for some of them called one

210

00:09:42,850 --> 00:09:40,339

called the rife you're probably familiar

211

00:09:45,249 --> 00:09:42,860

with yeah oh just still go and hold a

212

00:09:48,189 --> 00:09:45,259

Clark people like that so the machines

213

00:09:49,990 --> 00:09:48,199

were still there and once again back to

214

00:09:52,150 --> 00:09:50,000

the therapy to goods administrating

215

00:09:54,879 --> 00:09:52,160

challenging these machines showing the

216

00:09:57,160 --> 00:09:54,889

claims and the TGA said well it's not

217

00:09:59,889 --> 00:09:57,170

the sponsor making the claims it's one

218

00:10:01,300 --> 00:09:59,899

of the people selling the devices so I

219

00:10:03,730 --> 00:10:01,310

thought well that's the great loophole

220

00:10:05,800 --> 00:10:03,740

isn't it they get Fred to sponsor it and

221

00:10:07,480 --> 00:10:05,810

then you know their mates start making

222

00:10:11,490 --> 00:10:07,490

the claims and the claims included

223

00:10:15,249 --> 00:10:11,500

things like fixing up autism and just a

224

00:10:17,350 --> 00:10:15,259

during smoking addiction or foot 175 a

225

00:10:20,009 --> 00:10:17,360

meeting you have with them and and you

226

00:10:23,759 --> 00:10:20,019

need up to three to eight sessions so

227

00:10:26,259 --> 00:10:23,769

when I contacted by Conn for example I

228

00:10:27,970 --> 00:10:26,269

actually asked him what the Machine cost

229

00:10:30,280 --> 00:10:27,980

and they said it was something like

230

00:10:32,129 --> 00:10:30,290

thirty four thousand but I could make

231

00:10:38,259 --> 00:10:32,139

over a hundred thousand dollars a year

232

00:10:40,240 --> 00:10:38,269

and it was TGA approved right so the aim

233

00:10:42,509 --> 00:10:40,250

there was to get rid of get rid of the

234

00:10:45,040 --> 00:10:42,519

the approval no that's all we can do

235

00:10:47,590 --> 00:10:45,050

because it's all about advertising the

236

00:10:50,829 --> 00:10:47,600

TGA can't ban these devices they're not

237

00:10:53,050 --> 00:10:50,839

killing anybody but they can do list

238

00:10:56,439 --> 00:10:53,060

them which means technically that not

239

00:11:00,730 --> 00:10:56,449

natural pet shouldn't be using them but

240

00:11:03,370 --> 00:11:00,740

the problem is that I sent in over 200

241

00:11:05,230 --> 00:11:03,380

complaints from friends of science and

242

00:11:08,379 --> 00:11:05,240

medicine you know that I'm the CEO of

243

00:11:12,340 --> 00:11:08,389

that great group we have been going from

244

00:11:14,910 --> 00:11:12,350

yeah over eight years yes and anyway

245

00:11:17,170 --> 00:11:14,920

what the TGA and their wisdom did they

246

00:11:19,240 --> 00:11:17,180

canceled every one of the complaints

247

00:11:20,769 --> 00:11:19,250

that the whole lot back to me and said

248

00:11:23,040 --> 00:11:20,779

they were going to do an education

249

00:11:26,540 --> 00:11:23,050

campaign now we're looking here from

250

00:11:29,750 --> 00:11:26,550

dates back in August 28th

251  
00:11:32,420 --> 00:11:29,760  
to February this year when finally the

252  
00:11:35,210 --> 00:11:32,430  
bicon sponsor actually cancelled their

253  
00:11:36,830 --> 00:11:35,220  
device so it's taken and that was the

254  
00:11:38,990 --> 00:11:36,840  
celebration because I figured that was

255  
00:11:41,870 --> 00:11:39,000  
ten years of fighting to have that

256  
00:11:44,930 --> 00:11:41,880  
device cancel and what happened was we

257  
00:11:47,480 --> 00:11:44,940  
flew to Canberra to meet with the

258  
00:11:49,280 --> 00:11:47,490  
national manager and he said I can't

259  
00:11:51,440 --> 00:11:49,290  
cancel that device because it's a

260  
00:11:54,410 --> 00:11:51,450  
biofeedback device and that has a

261  
00:11:56,240 --> 00:11:54,420  
legitimate place in healthcare well that

262  
00:11:59,300 --> 00:11:56,250  
took a while for the penny to drop until

263  
00:12:02,690 --> 00:11:59,310

a year or so later I thought no it's not

264

00:12:05,420 --> 00:12:02,700

so back I went to people like dr. Steve

265

00:12:08,150 --> 00:12:05,430

Roberts on quantum physics and got

266

00:12:10,730 --> 00:12:08,160

advice from proper biofeedback experts

267

00:12:13,160 --> 00:12:10,740

from Australia from overseas and they

268

00:12:15,860 --> 00:12:13,170

said this is not a biofeedback device

269

00:12:17,840 --> 00:12:15,870

and that helped I believe as well but

270

00:12:19,970 --> 00:12:17,850

the TV ends then as I say they sent all

271

00:12:22,160 --> 00:12:19,980

the complaints back but they said they

272

00:12:24,500 --> 00:12:22,170

would launch an inquiry into looking at

273

00:12:25,880 --> 00:12:24,510

the research for these devices to see

274

00:12:28,250 --> 00:12:25,890

whether they worked or not in that fit

275

00:12:30,590 --> 00:12:28,260

and give them credit they still have

276

00:12:32,330 --> 00:12:30,600

have to give the people the right to

277

00:12:34,520 --> 00:12:32,340

come back with their own research they

278

00:12:37,520 --> 00:12:34,530

can't just say it's nonsense because the

279

00:12:38,600 --> 00:12:37,530

science says it's nonsense anyway they

280

00:12:41,210 --> 00:12:38,610

obviously didn't come back with

281

00:12:43,730 --> 00:12:41,220

appropriate research and they canceled

282

00:12:45,800 --> 00:12:43,740

them so that was a big day this year we

283

00:12:48,410 --> 00:12:45,810

quietly had a drink after all that time

284

00:12:50,930 --> 00:12:48,420

to say at long last

285

00:12:54,050 --> 00:12:50,940

they're all gone but the trouble is the

286

00:12:56,380 --> 00:12:54,060

education campaign meant that the TJ's

287

00:12:59,530 --> 00:12:56,390

sent letters out to all the bodies

288

00:13:02,810 --> 00:12:59,540

representing natural therapists and

289

00:13:04,520 --> 00:13:02,820

eight months later I heard that the

290

00:13:06,620 --> 00:13:04,530

Australian traditional medicine society

291

00:13:09,200 --> 00:13:06,630

who represent most of the natural

292

00:13:10,940 --> 00:13:09,210

therapists still have not notified their

293

00:13:12,710 --> 00:13:10,950

members they admitted that they had not

294

00:13:15,950 --> 00:13:12,720

sent out the letter so how effective

295

00:13:18,280 --> 00:13:15,960

this education campaign is is going to

296

00:13:20,420 --> 00:13:18,290

be you know tricky when the

297

00:13:22,700 --> 00:13:20,430

association's don't let their members

298

00:13:25,700 --> 00:13:22,710

know that they're actually breaking the

299

00:13:27,260 --> 00:13:25,710

law all that said yeah when you see

300

00:13:28,430 --> 00:13:27,270

these machines in action and I'm

301  
00:13:31,370 --> 00:13:28,440  
thinking about the one I've seen myself

302  
00:13:34,880 --> 00:13:31,380  
which is called the Metatron I mentioned

303  
00:13:37,640 --> 00:13:34,890  
before and you sit in front of a laptop

304  
00:13:40,460 --> 00:13:37,650  
and you put on a pair of what looked to

305  
00:13:43,100 --> 00:13:40,470  
be headphones and on the screen is

306  
00:13:45,950 --> 00:13:43,110  
displayed pictures of your vital organs

307  
00:13:48,500 --> 00:13:45,960  
down to the level of DNA and it also

308  
00:13:51,830 --> 00:13:48,510  
says it can zap viruses and parasites

309  
00:13:55,610 --> 00:13:51,840  
and things like that it is so bizarre it

310  
00:13:57,260 --> 00:13:55,620  
is so obviously fake I'm quite surprised

311  
00:13:59,270 --> 00:13:57,270  
that other aspects of the legal system

312  
00:14:01,310 --> 00:13:59,280  
don't come into play here I mean what

313  
00:14:04,730 --> 00:14:01,320

happened to good old-fashioned consumer

314

00:14:07,520 --> 00:14:04,740

protection for example man you know now

315

00:14:10,720 --> 00:14:07,530

come to think of it Al Capone

316

00:14:12,920 --> 00:14:10,730

they finally got him not for all the the

317

00:14:14,450 --> 00:14:12,930

horrible crimes he was committing but

318

00:14:16,820 --> 00:14:14,460

they got him for tax evasion

319

00:14:18,710 --> 00:14:16,830

so with these machines if they can't get

320

00:14:20,390 --> 00:14:18,720

them on purely health claims surely

321

00:14:22,250 --> 00:14:20,400

there's other avenues they can pursue

322

00:14:25,070 --> 00:14:22,260

when it comes to product or service that

323

00:14:28,010 --> 00:14:25,080

does not and cannot work well the

324

00:14:29,390 --> 00:14:28,020

trouble is even when you talk to some of

325

00:14:31,970 --> 00:14:29,400

the doctors they say well that's not

326

00:14:34,580 --> 00:14:31,980

hurting anyone and I know it was

327

00:14:36,680 --> 00:14:34,590

actually invited to become a witness at

328

00:14:40,310 --> 00:14:36,690

a parliamentary inquiry into allergies

329

00:14:42,050 --> 00:14:40,320

and if Alexis and one of my the

330

00:14:44,210 --> 00:14:42,060

challenges I had was to get rid of these

331

00:14:47,060 --> 00:14:44,220

devices because all of them claim they

332

00:14:49,730 --> 00:14:47,070

can actually identify in Curia allergies

333

00:14:51,710 --> 00:14:49,740

and the doctor up on the panel said I'm

334

00:14:54,080 --> 00:14:51,720

gonna pay devil's advocate here he said

335

00:14:56,390 --> 00:14:54,090

what's wrong with the devices if they

336

00:14:59,360 --> 00:14:56,400

don't hurt anybody and I said they do in

337

00:15:02,300 --> 00:14:59,370

three ways I said one is that they are

338

00:15:04,640 --> 00:15:02,310

taking money from you so then they're

339

00:15:08,110 --> 00:15:04,650

financially robbing you I said the

340

00:15:11,660 --> 00:15:08,120

second one is that they're actually

341

00:15:14,180 --> 00:15:11,670

delaying treatment for patients so a

342

00:15:17,150 --> 00:15:14,190

child has a bed allergy and they go to

343

00:15:19,610 --> 00:15:17,160

these practitioners so they spend 175

344

00:15:22,220 --> 00:15:19,620

dollars a time and they go there for 8

345

00:15:24,950 --> 00:15:22,230

weeks in a row you've delayed a proper

346

00:15:27,440 --> 00:15:24,960

treatment and the third one is the

347

00:15:29,660 --> 00:15:27,450

disappointment by the family when they

348

00:15:31,850 --> 00:15:29,670

spent all this money and the child is no

349

00:15:33,830 --> 00:15:31,860

longer it's not getting any better

350

00:15:36,140 --> 00:15:33,840

and I thought that was very sad no I

351

00:15:39,560 --> 00:15:36,150

actually had a visitor here one day and

352

00:15:40,910 --> 00:15:39,570

she had terrible eczema and finally she

353

00:15:42,560 --> 00:15:40,920

lived out in the country finally a

354

00:15:45,950 --> 00:15:42,570

specialist had come round and been able

355

00:15:48,680 --> 00:15:45,960

to give her some some skin stuff to help

356

00:15:50,780 --> 00:15:48,690

her and she told me of her visit to the

357

00:15:52,550 --> 00:15:50,790

naturopath who put her on one of these

358

00:15:53,750 --> 00:15:52,560

machines and she had to cross her arms

359

00:15:56,350 --> 00:15:53,760

over her chest he put

360

00:15:59,270 --> 00:15:56,360

camped out on and clipped it on hmm and

361

00:16:01,370 --> 00:15:59,280

\$2,000 later she was no better off this

362

00:16:03,500 --> 00:16:01,380

woman was in permanent agony with the

363

00:16:05,450 --> 00:16:03,510

sex amount with all the scratching that

364

00:16:08,210 --> 00:16:05,460

you do his skin was so itchy she showed

365

00:16:10,610 --> 00:16:08,220

me photos so there is harm being done

366

00:16:12,290 --> 00:16:10,620

here it's not just oh it's not gonna

367

00:16:14,090 --> 00:16:12,300

hurt anyway it's not let's like ko me up

368

00:16:16,340 --> 00:16:14,100

it's not going to hurt anybody so all

369

00:16:18,650 --> 00:16:16,350

these people are taking it in India to

370

00:16:21,260 --> 00:16:18,660

try to stop getting the virus and that's

371

00:16:24,350 --> 00:16:21,270

giving them false hope as well so yes

372

00:16:26,360 --> 00:16:24,360

the harm is not just physical harm but

373

00:16:29,570 --> 00:16:26,370

it's financial harm emotional harm and

374

00:16:32,090 --> 00:16:29,580

harm in delaying proven treatments yes

375

00:16:34,280 --> 00:16:32,100

of course in just last week on the

376

00:16:36,290 --> 00:16:34,290

skeptics and we had our friend of Ajit

377

00:16:38,510 --> 00:16:36,300

talking from India about the situation

378

00:16:40,070 --> 00:16:38,520

homeopathy and how it's not really

379

00:16:42,890 --> 00:16:40,080

working well it sounds a bit silly to

380

00:16:44,390 --> 00:16:42,900

say obviously it's not working but I can

381

00:16:45,920 --> 00:16:44,400

see the link you're making between these

382

00:16:48,920 --> 00:16:45,930

machines and something that looks like

383

00:16:51,890 --> 00:16:48,930

or promises you know pseudoscience to be

384

00:16:54,410 --> 00:16:51,900

of benefit again I'm just so gobsmacked

385

00:16:55,550 --> 00:16:54,420

it's something so blatantly fake you

386

00:16:57,260 --> 00:16:55,560

know somebody's invented a computer

387

00:16:59,890 --> 00:16:57,270

program that looks like it's scanning

388

00:17:02,300 --> 00:16:59,900

your body and these things can be

389

00:17:04,780 --> 00:17:02,310

available and being used and there are

390

00:17:08,270 --> 00:17:04,790

people in the government who don't act

391

00:17:10,460 --> 00:17:08,280

straightaway as because it's it's again

392

00:17:13,430 --> 00:17:10,470

it's just so obvious I will hopefully

393

00:17:15,319 --> 00:17:13,440

things have taken a turn now that the

394

00:17:17,030 --> 00:17:15,329

devices are no longer listed so that

395

00:17:18,439 --> 00:17:17,040

gives us new opportunities but I must

396

00:17:21,350 --> 00:17:18,449

admit there are new device is still

397

00:17:23,750 --> 00:17:21,360

coming on the market and so we we have

398

00:17:25,670 --> 00:17:23,760

to be right on to them mm-hmm it doesn't

399

00:17:27,439 --> 00:17:25,680

surprise me at all sadly enough well I'm

400

00:17:29,810 --> 00:17:27,449

glad that you're there I'm glad that the

401  
00:17:31,580 --> 00:17:29,820  
Friends of science in medicine are

402  
00:17:33,440 --> 00:17:31,590  
keeping up the fight I think it's very

403  
00:17:36,560 --> 00:17:33,450  
worthwhile for the very good reasons you

404  
00:17:39,380 --> 00:17:36,570  
mentioned before and we'll be keeping an

405  
00:17:41,600 --> 00:17:39,390  
eye on that I will link to the Friends

406  
00:17:44,180 --> 00:17:41,610  
of science and medicine website in this

407  
00:17:46,070 --> 00:17:44,190  
week's show notes but for now Loretta

408  
00:17:49,980 --> 00:17:46,080  
sit back and have some nice jelly beans

409  
00:17:58,999 --> 00:17:49,990  
thank you very much thank you

410  
00:18:05,009 --> 00:18:02,399  
hi my name's Joe Thornley and I'd like

411  
00:18:08,009 --> 00:18:05,019  
you to join my cup I'd like you to

412  
00:18:10,320 --> 00:18:08,019  
listen to my podcast about cults called

413  
00:18:12,029 --> 00:18:10,330

zealot it's available pretty much any

414

00:18:14,940 --> 00:18:12,039

way you find podcasts with further

415

00:18:17,279 --> 00:18:14,950

reading on the zealot Facebook page each

416

00:18:19,230 --> 00:18:17,289

episode a guest joins me to talk about a

417

00:18:24,610 --> 00:18:19,240

specific cult where we answer the big

418

00:18:36,370 --> 00:18:34,840

and does anyone think they're Jesus hop

419

00:18:38,380 --> 00:18:36,380

over to my compound and have a listen

420

00:19:04,710 --> 00:18:38,390

I've just mixed up a fresh batch of

421

00:19:14,080 --> 00:19:12,100

here's susan gerbic now folks last week

422

00:19:16,779 --> 00:19:14,090

you will remember we had an interesting

423

00:19:20,169 --> 00:19:16,789

story with our friend susan gerbic about

424

00:19:21,460 --> 00:19:20,179

a undercover operation operation Oh

425

00:19:23,409 --> 00:19:21,470

she'll tell me what it is that some

426

00:19:25,029 --> 00:19:23,419

convoluted thing with porcupines and

427

00:19:27,399 --> 00:19:25,039

pies and peaches and I don't know

428

00:19:29,289 --> 00:19:27,409

whatever anyway it's a psychic sting

429

00:19:32,590 --> 00:19:29,299

another psychic sting by susan gerbic

430

00:19:34,480 --> 00:19:32,600

this revolved around somebody who claims

431

00:19:36,820 --> 00:19:34,490

the talk with the dead one Jeanette

432

00:19:40,269 --> 00:19:36,830

Wilson in New Zealand but she also

433

00:19:43,149 --> 00:19:40,279

claims he had a preventative fork over

434

00:19:45,279 --> 00:19:43,159

19 joining me once again from Salinas

435

00:19:48,580 --> 00:19:45,289

California its susan gerbic hello Susan

436

00:19:51,310 --> 00:19:48,590

hi Richard my listeners now what an

437

00:19:53,860 --> 00:19:51,320

interesting story it was can you just

438

00:19:55,139 --> 00:19:53,870

briefly recap what happened in this

439

00:19:57,549 --> 00:19:55,149  
chatroom

440

00:20:01,180 --> 00:19:57,559  
well we were trying to see if we could

441

00:20:03,010 --> 00:20:01,190  
catch this psychic healer into giving us

442

00:20:05,019 --> 00:20:03,020  
some advice about vaccines because we've

443

00:20:06,669 --> 00:20:05,029  
been told she's an tiebacks she

444

00:20:08,980 --> 00:20:06,679  
complained about her Wikipedia page

445

00:20:10,960 --> 00:20:08,990  
having quotes on it saying that she's

446

00:20:12,850 --> 00:20:10,970  
anti Beck's so we wanted to see if we

447

00:20:17,039 --> 00:20:12,860  
can catch her actually saying it on

448

00:20:20,529 --> 00:20:17,049  
video her beliefs and boy did we went I

449

00:20:21,909 --> 00:20:20,539  
attended a online session along with a

450

00:20:25,240 --> 00:20:21,919  
couple members from the New Zealand

451  
00:20:29,200 --> 00:20:25,250  
skeptics and we recorded everything and

452  
00:20:32,649 --> 00:20:29,210  
we at the very end of the workshop she

453  
00:20:36,639 --> 00:20:32,659  
gave I asked her a question about if she

454  
00:20:38,330 --> 00:20:36,649  
was having any forsyth into what's

455  
00:20:41,000 --> 00:20:38,340  
happening with Cova and

456  
00:20:46,850 --> 00:20:41,010  
scene and she gave me a 16 minute rant

457  
00:20:48,680 --> 00:20:46,860  
about boba 19 and how how we can best

458  
00:20:53,060 --> 00:20:48,690  
fix it plus her reviews on the

459  
00:20:55,909 --> 00:20:53,070  
government and Trump and on and on and

460  
00:20:58,340 --> 00:20:55,919  
we had it all on audio and I think the

461  
00:21:00,289 --> 00:20:58,350  
important thing is I mean we know

462  
00:21:01,970 --> 00:21:00,299  
there's lots of conspiracy theories out

463  
00:21:04,279 --> 00:21:01,980

there and people who follow it and think

464

00:21:06,289 --> 00:21:04,289

that the virus was man-made and you know

465

00:21:09,380 --> 00:21:06,299

and you know what you know people have

466

00:21:12,680 --> 00:21:09,390

crazy ideas but I think the important

467

00:21:15,440 --> 00:21:12,690

point here was that she was offering or

468

00:21:18,590 --> 00:21:15,450

suggesting or telling you the audience

469

00:21:21,260 --> 00:21:18,600

the listeners of her meeting that they

470

00:21:24,440 --> 00:21:21,270

should try this supplement and she was

471

00:21:27,019 --> 00:21:24,450

making very specific claims for that

472

00:21:29,299 --> 00:21:27,029

yeah absolutely it's not so much the

473

00:21:31,669 --> 00:21:29,309

problem that she is making claims about

474

00:21:33,560 --> 00:21:31,679

healing or kinds about speaking to the

475

00:21:37,549 --> 00:21:33,570

dead but whenever you start talking

476

00:21:39,889 --> 00:21:37,559

about how to keep awake Ovid by taking

477

00:21:43,010 --> 00:21:39,899

some sort of supplement that really

478

00:21:44,840 --> 00:21:43,020

makes my hackles go yeah now there's a

479

00:21:47,570 --> 00:21:44,850

follow-up to the story because this has

480

00:21:50,750 --> 00:21:47,580

been now taken up by the New Zealand

481

00:21:54,919 --> 00:21:50,760

press I believe yes it was reported by

482

00:21:59,750 --> 00:21:54,929

Tobey macGuire in this in off and that's

483

00:22:02,180 --> 00:21:59,760

an online newspaper so to speak on news

484

00:22:03,529 --> 00:22:02,190

outlet and folks I'll link to that page

485

00:22:07,370 --> 00:22:03,539

in this week's show note it's quite

486

00:22:09,620 --> 00:22:07,380

extensive I mean he really did listen or

487

00:22:12,769 --> 00:22:09,630

read the transcripts very thoroughly and

488

00:22:15,560 --> 00:22:12,779

he put questions to her about it yes he

489

00:22:18,799 --> 00:22:15,570

contacted her and she I woke up to find

490

00:22:21,470 --> 00:22:18,809

a cease and desist kind of take down

491

00:22:24,710 --> 00:22:21,480

your videos off of my channel from her

492

00:22:25,940 --> 00:22:24,720

so I really do sir private and I don't

493

00:22:27,799 --> 00:22:25,950

have a problem with that I don't have

494

00:22:29,570 --> 00:22:27,809

the only reason I have the video is up

495

00:22:32,450 --> 00:22:29,580

on my YouTube channel was so that the

496

00:22:34,310 --> 00:22:32,460

media be able to access it yeah it's

497

00:22:37,340 --> 00:22:34,320

sort of what what what's that expression

498

00:22:40,549 --> 00:22:37,350

the shutting Mabon gate after the horses

499

00:22:42,440 --> 00:22:40,559

bolted it really doesn't matter I don't

500

00:22:43,940 --> 00:22:42,450

really have a problem when you catch

501  
00:22:45,350 --> 00:22:43,950  
psychics and doing something like that

502  
00:22:46,669 --> 00:22:45,360  
where they say that you know you

503  
00:22:49,520 --> 00:22:46,679  
recorded this and you weren't supposed

504  
00:22:51,490 --> 00:22:49,530  
to record it or you did this or you did

505  
00:22:53,260 --> 00:22:51,500  
that I mean they're psychic

506  
00:22:55,780 --> 00:22:53,270  
they should know I am on the call with

507  
00:22:57,520 --> 00:22:55,790  
them and I spent over two hours on the

508  
00:22:58,990 --> 00:22:57,530  
call with her with a fake name that she

509  
00:23:01,240 --> 00:22:59,000  
would haven't been able to look at my

510  
00:23:03,310 --> 00:23:01,250  
face she was interacting with me the

511  
00:23:05,890 --> 00:23:03,320  
whole time so if she didn't know that I

512  
00:23:08,050 --> 00:23:05,900  
was not who I said I was that's not my

513  
00:23:10,600 --> 00:23:08,060

fault she should know that well you know

514

00:23:12,370 --> 00:23:10,610

I guess it's the old thing that if

515

00:23:14,590 --> 00:23:12,380

there's if they were really psychic then

516

00:23:19,710 --> 00:23:14,600

they would do XYZ and their comeback is

517

00:23:23,590 --> 00:23:21,370

that's right

518

00:23:25,960 --> 00:23:23,600

okay now folks again please have a look

519

00:23:27,070 --> 00:23:25,970

at this report linked in the show notes

520

00:23:30,280 --> 00:23:27,080

I think you'll find it really

521

00:23:32,040 --> 00:23:30,290

interesting reading but I think Susan

522

00:23:35,440 --> 00:23:32,050

you were telling me there's another

523

00:23:38,320 --> 00:23:35,450

psychic sting being reported on so

524

00:23:40,330 --> 00:23:38,330

Thomas John Flanagan is one of the

525

00:23:43,750 --> 00:23:40,340

psychics that I had busted quite a few

526

00:23:46,540 --> 00:23:43,760

years ago in operation pizza roll and he

527

00:23:49,120 --> 00:23:46,550

had a show in Vegas at Caesar's Palace

528

00:23:51,040 --> 00:23:49,130

and now he has a new show starting today

529

00:23:53,440 --> 00:23:51,050

in fact it's probably playing right now

530

00:23:55,510 --> 00:23:53,450

in his first the first episode is called

531

00:23:57,250 --> 00:23:55,520

the Thomas John experience mm-hmm and

532

00:23:59,680 --> 00:23:57,260

from what I understand it looks just

533

00:24:01,960 --> 00:23:59,690

like his other show seat belt psychic

534

00:24:03,520 --> 00:24:01,970

except that sometimes now he gets on

535

00:24:06,880 --> 00:24:03,530

with a car and he does readings with

536

00:24:09,190 --> 00:24:06,890

people on park benches or while he's

537

00:24:12,520 --> 00:24:09,200

eating or whatever but before it was

538

00:24:14,650 --> 00:24:12,530

just in a car well I did a lot of

539

00:24:17,440 --> 00:24:14,660

research before this came out and I

540

00:24:19,210 --> 00:24:17,450

wrote another article and it is out

541

00:24:21,880 --> 00:24:19,220

right now hopefully you'll link to it in

542

00:24:23,650 --> 00:24:21,890

the show notes but it appeared this

543

00:24:26,560 --> 00:24:23,660

morning it's printed in well it's

544

00:24:29,380 --> 00:24:26,570

available on online it's skeptical

545

00:24:32,020 --> 00:24:29,390

inquirer hmm and because that article

546

00:24:33,910 --> 00:24:32,030

came out today I made a few predictions

547

00:24:37,000 --> 00:24:33,920

about what I think people are gonna see

548

00:24:40,450 --> 00:24:37,010

on the show tonight when they watch so

549

00:24:42,820 --> 00:24:40,460

my my predictions are published and so

550

00:24:44,980 --> 00:24:42,830

let's see how accurate I am we're using

551  
00:24:46,660 --> 00:24:44,990  
that article spreading it around of

552  
00:24:49,180 --> 00:24:46,670  
course it's on this Wikipedia page as

553  
00:24:51,940 --> 00:24:49,190  
well as the article from spin off about

554  
00:24:53,410 --> 00:24:51,950  
Jeannette Wilson I'm sure both of them

555  
00:24:55,870 --> 00:24:53,420  
are not going to be happy about having

556  
00:24:58,490 --> 00:24:55,880  
this Wikipedia pages updated with the

557  
00:25:01,269 --> 00:24:58,500  
most recent articles

558  
00:25:04,100 --> 00:25:01,279  
well Thank You Susan for your your

559  
00:25:07,039 --> 00:25:04,110  
continuous and the tireless work and

560  
00:25:08,720 --> 00:25:07,049  
your undercover work and we'll keep an

561  
00:25:10,820 --> 00:25:08,730  
eye on things and please alert me when

562  
00:25:13,249 --> 00:25:10,830  
you're doing your next a little sneaky

563  
00:25:15,110 --> 00:25:13,259

sting well thank you so much Richard

564

00:25:16,280 --> 00:25:15,120

you've always been so gracious and

565

00:25:25,479 --> 00:25:16,290

reporting our work

566

00:25:28,309 --> 00:25:25,489

[Music]

567

00:25:31,729 --> 00:25:28,319

aliens are probing people and mutilating

568

00:25:33,859 --> 00:25:31,739

cows 9/11 was an inside job

569

00:25:37,279 --> 00:25:33,869

I'm the oppa to clean up my athlete's

570

00:25:39,799 --> 00:25:37,289

foot vaccines cause autism little

571

00:25:42,739 --> 00:25:39,809

sockets a tinnitus bone is definitely

572

00:25:45,139 --> 00:25:42,749

real we all have friends and family who

573

00:25:47,149 --> 00:25:45,149

believe these things and much more well

574

00:25:49,039 --> 00:25:47,159

if you're a rational thinker who is

575

00:25:50,599 --> 00:25:49,049

tired of arguing on social media and

576

00:25:51,709 --> 00:25:50,609

never getting anywhere we have a

577

00:25:53,719 --> 00:25:51,719

solution for you

578

00:25:56,029 --> 00:25:53,729

join the guerrilla skepticism on

579

00:25:58,579 --> 00:25:56,039

wikipedia team and we will teach you how

580

00:26:00,499 --> 00:25:58,589

to add reliable scientific and skeptical

581

00:26:03,649 --> 00:26:00,509

information to the world's number-one

582

00:26:05,599 --> 00:26:03,659

source of information Wikipedia we write

583

00:26:08,149 --> 00:26:05,609

new articles and improve existing ones

584

00:26:10,309 --> 00:26:08,159

we remove pseudoscience paranormal and

585

00:26:12,469 --> 00:26:10,319

altmed claims substituting the actual

586

00:26:15,139 --> 00:26:12,479

facts and we operate in many languages

587

00:26:17,539 --> 00:26:15,149

we've already reached tens of millions

588

00:26:19,519 --> 00:26:17,549

of people searching for information but

589

00:26:22,579 --> 00:26:19,529

as you can imagine we can never do

590

00:26:25,219 --> 00:26:22,589

enough so please join us all you need is

591

00:26:27,589 --> 00:26:25,229

a PC a Facebook account and the desire

592

00:26:29,239 --> 00:26:27,599

to help educate the planet in fact

593

00:26:33,109 --> 00:26:29,249

you'll be educating the world while you

594

00:26:36,889 --> 00:26:33,119

sleep contact us at G is Oh W team @

595

00:26:41,200 --> 00:26:36,899

gmail.com guerrilla skepticism the time

596

00:27:00,080 --> 00:26:41,210

is now music by purple planet calm

597

00:27:01,990 --> 00:27:00,090

[Music]

598

00:27:04,770 --> 00:27:02,000

logical fallacies

599

00:27:08,289 --> 00:27:04,780

[Music]

600

00:27:10,180 --> 00:27:08,299

what are logical fallacies and why is it

601  
00:27:12,330 --> 00:27:10,190  
important that critical thinkers should

602  
00:27:15,030 --> 00:27:12,340  
know about them

603  
00:27:18,060 --> 00:27:15,040  
a logical fallacy is an error we can

604  
00:27:20,310 --> 00:27:18,070  
make in reasoning but it usually crops

605  
00:27:24,060 --> 00:27:20,320  
up when we are discussing or arguing our

606  
00:27:26,490 --> 00:27:24,070  
point of view some people might even

607  
00:27:28,680 --> 00:27:26,500  
knowingly use them to try and score

608  
00:27:30,920 --> 00:27:28,690  
cheap points in an argument due to

609  
00:27:34,260 --> 00:27:30,930  
intellectual laziness

610  
00:27:36,720 --> 00:27:34,270  
they are traps we can fall into but if

611  
00:27:39,060 --> 00:27:36,730  
we know what to look out for we can spot

612  
00:27:45,060 --> 00:27:39,070  
them when they occur and stop ourselves

613  
00:27:48,870 --> 00:27:45,070

from using them this time we'll look at

614

00:27:50,580 --> 00:27:48,880

the false equivalence fallacy this is

615

00:27:53,460 --> 00:27:50,590

when it's argued that two different

616

00:27:55,920 --> 00:27:53,470

things or points of view that may have

617

00:27:59,520 --> 00:27:55,930

only passing or superficial similarities

618

00:28:02,310 --> 00:27:59,530

are in fact logically equivalent we've

619

00:28:05,730 --> 00:28:02,320

all heard the saying you are comparing

620

00:28:09,000 --> 00:28:05,740

apples with oranges yes they are both

621

00:28:12,540 --> 00:28:09,010

fruit both round and both are good to

622

00:28:15,060 --> 00:28:12,550

eat but despite these similarities they

623

00:28:18,000 --> 00:28:15,070

are not the same thing and should not be

624

00:28:20,340 --> 00:28:18,010

compared as such medical intuitive's

625

00:28:23,280 --> 00:28:20,350

those gifted people who can sense what

626  
00:28:25,350 --> 00:28:23,290  
is going on in your body are very caring

627  
00:28:28,650 --> 00:28:25,360  
people who treat thousands of patients

628  
00:28:31,320 --> 00:28:28,660  
each year yes they can make mistakes

629  
00:28:34,520 --> 00:28:31,330  
from time to time but so do mainstream

630  
00:28:37,560 --> 00:28:34,530  
doctors so in fact they're much the same

631  
00:28:40,650 --> 00:28:37,570  
yes both medical intuitive and

632  
00:28:43,890 --> 00:28:40,660  
mainstream doctors are caring people who

633  
00:28:46,950 --> 00:28:43,900  
do make mistakes from time to time they

634  
00:28:51,180 --> 00:28:46,960  
also probably drive cars listen to music

635  
00:28:53,550 --> 00:28:51,190  
and brush their teeth however all these

636  
00:28:56,720 --> 00:28:53,560  
things do not mean that they are similar

637  
00:28:59,550 --> 00:28:56,730  
when it comes to health care and advice

638  
00:29:02,520 --> 00:28:59,560

while mainstream doctors are trained in

639

00:29:05,010 --> 00:29:02,530

and follow the scientific method medical

640

00:29:08,280 --> 00:29:05,020

intuitive rarely have medical training

641

00:29:11,070 --> 00:29:08,290

and rely on the unproven and frankly

642

00:29:13,950 --> 00:29:11,080

quite bizarre idea that they can use

643

00:29:17,850 --> 00:29:13,960

something akin to ESP to diagnose

644

00:29:20,160 --> 00:29:17,860

illnesses when it comes to vaccination

645

00:29:23,250 --> 00:29:20,170

we have experts who say it's safe and

646

00:29:25,600 --> 00:29:23,260

effective but then again other experts

647

00:29:28,930 --> 00:29:25,610

say it's not worth the risk and

648

00:29:31,830 --> 00:29:28,940

has links to autism the term expert

649

00:29:34,630 --> 00:29:31,840

seems to be used quite a bit these days

650

00:29:37,480 --> 00:29:34,640

just because someone is known as an

651  
00:29:40,810 --> 00:29:37,490  
expert or even labels themselves as an

652  
00:29:43,530 --> 00:29:40,820  
expert it doesn't necessarily mean they

653  
00:29:46,960 --> 00:29:43,540  
have valid expert knowledge in a subject

654  
00:29:49,480 --> 00:29:46,970  
we even have the situation where people

655  
00:29:53,620 --> 00:29:49,490  
refer to themselves as having mastered a

656  
00:29:56,020 --> 00:29:53,630  
modality for example Reiki masters even

657  
00:29:59,669 --> 00:29:56,030  
though there is no credible evidence

658  
00:30:02,799 --> 00:29:59,679  
that Reiki based on mystical energies

659  
00:30:06,010 --> 00:30:02,809  
exists at all the Stars and the planets

660  
00:30:08,680 --> 00:30:06,020  
are wonderful and mysterious astrologers

661  
00:30:10,419 --> 00:30:08,690  
and astronomers continue to study the

662  
00:30:13,870 --> 00:30:10,429  
night sky to learn more about our

663  
00:30:15,880 --> 00:30:13,880

universe the size of astrology evolved

664

00:30:18,850 --> 00:30:15,890

out of the natural wonder and curiosity

665

00:30:22,510 --> 00:30:18,860

of our ancestors when they looked up at

666

00:30:24,940 --> 00:30:22,520

the night sky it was not surprising they

667

00:30:27,820 --> 00:30:24,950

saw patterns in the Stars and made up

668

00:30:31,480 --> 00:30:27,830

stories of gods animals and great

669

00:30:35,950 --> 00:30:31,490

adventures and did so all over the world

670

00:30:39,100 --> 00:30:35,960

for thousands of years in Australia for

671

00:30:41,650 --> 00:30:39,110

example the Aboriginal people used the

672

00:30:44,049 --> 00:30:41,660

appearance of stars at various times of

673

00:30:48,280 --> 00:30:44,059

the year to help them to know when to

674

00:30:50,650 --> 00:30:48,290

hunt for certain animals however today's

675

00:30:52,450 --> 00:30:50,660

astrology charts and predictions have

676

00:30:55,180 --> 00:30:52,460

very little to do with the real

677

00:30:58,900 --> 00:30:55,190

scientific study of stars planets and

678

00:31:01,930 --> 00:30:58,910

galaxies that your personality or events

679

00:31:04,750 --> 00:31:01,940

in your future can be read by looking at

680

00:31:07,090 --> 00:31:04,760

the heavens has long since been shown to

681

00:31:10,930 --> 00:31:07,100

be nothing more than superstition and

682

00:31:14,650 --> 00:31:10,940

magical thinking in the most important

683

00:31:15,780 --> 00:31:14,660

ways you cannot compare astrology with

684

00:31:18,090 --> 00:31:15,790

astronomy

685

00:31:21,340 --> 00:31:18,100

[Music]

686

00:31:24,100 --> 00:31:21,350

like many other logical fallacies it's

687

00:31:26,470 --> 00:31:24,110

not always easy and obvious to tell when

688

00:31:29,860 --> 00:31:26,480

the false equivalence fallacy is being

689

00:31:33,310 --> 00:31:29,870

used sometimes it takes a little thought

690

00:31:35,620 --> 00:31:33,320

or even research to know for sure it's

691

00:31:41,340 --> 00:31:35,630

important not to be too critical with

692

00:31:46,660 --> 00:31:44,230

knowing a logical fallacy when you hear

693

00:31:49,060 --> 00:31:46,670

one and even knowing its name is

694

00:31:52,720 --> 00:31:49,070

important when arguing your point of

695

00:31:55,540 --> 00:31:52,730

view however you may come across as

696

00:31:58,150 --> 00:31:55,550

arrogant and not get very far if you

697

00:32:01,840 --> 00:31:58,160

call it out by name to your opponent

698

00:32:04,210 --> 00:32:01,850

when you hear it being used if your

699

00:32:07,030 --> 00:32:04,220

opponent calls you out for using one

700

00:32:10,600 --> 00:32:07,040

it's time to stop and think about how

701

00:32:12,940 --> 00:32:10,610

you are making your case use your

702

00:32:16,240 --> 00:32:12,950

knowledge of logical fallacies wisely

703

00:32:18,490 --> 00:32:16,250

and remember that even if your point of

704

00:32:21,760 --> 00:32:18,500

view is right and you know all the

705

00:32:25,030 --> 00:32:21,770

pitfalls in arguing your case it doesn't

706

00:32:28,450 --> 00:32:25,040

always mean you'll win on the day and a

707

00:32:34,240 --> 00:32:28,460

skeptics we must also remember that we

708

00:32:36,910 --> 00:32:34,250

too can be wrong at times I'm sure

709

00:32:43,140 --> 00:32:36,920

because my from the Vik skeptics thanks

710

00:32:55,740 --> 00:32:52,800

[Music]

711

00:32:58,290 --> 00:32:55,750

now it's time to see what's making news

712

00:33:00,960 --> 00:32:58,300

at Australian skeptics for the

713

00:33:05,550 --> 00:33:00,970

Australian skeptics newsletter number 99

714

00:33:14,720 --> 00:33:05,560

and this newsletter can be yours by

715

00:33:21,230 --> 00:33:19,080

skeptic on 20/20 goes online following a

716

00:33:24,360 --> 00:33:21,240

lot of discussion soul-searching

717

00:33:26,940 --> 00:33:24,370

consulting and an extremely helpful

718

00:33:29,610 --> 00:33:26,950

survey the organizers of skeptic on

719

00:33:32,820 --> 00:33:29,620

20/20 have decided that the event this

720

00:33:35,190 --> 00:33:32,830

year will be purely online naturally

721

00:33:37,830 --> 00:33:35,200

this decision has been influenced by the

722

00:33:40,800 --> 00:33:37,840

need to assure the health and safety of

723

00:33:43,230 --> 00:33:40,810

attendees due to covert 19 whatever the

724

00:33:46,470 --> 00:33:43,240

nature of existing and possible future

725

00:33:48,900 --> 00:33:46,480

regulations may be the upside is that

726

00:33:50,760 --> 00:33:48,910

this will be a first for an Australian

727

00:33:54,270 --> 00:33:50,770

skeptics and your convention and gives a

728

00:33:56,550 --> 00:33:54,280

lot more people the chance to attend

729

00:33:58,530 --> 00:33:56,560

without the cost of travel and

730

00:34:01,980 --> 00:33:58,540

accommodation or getting out of their

731

00:34:04,650 --> 00:34:01,990

pajamas for that matter my next item

732

00:34:07,140 --> 00:34:04,660

says federal ministers flooded with

733

00:34:09,620 --> 00:34:07,150

unprecedented level of anti-vaccination

734

00:34:12,419 --> 00:34:09,630

mail in the age of digital

735

00:34:15,360 --> 00:34:12,429

communications a good old-fashioned

736

00:34:18,050 --> 00:34:15,370

letter-writing campaign pushed by a

737

00:34:22,020 --> 00:34:18,060

couple from northern New South Wales

738

00:34:26,790 --> 00:34:22,030

surprise we also have stories on seven

739

00:34:29,550 --> 00:34:26,800

traits for conspiratorial thinking 7 set

740

00:34:31,950 --> 00:34:29,560

more like 70 these days a handy guide

741

00:34:34,470 --> 00:34:31,960

inspired by coronavirus and the planned

742

00:34:36,440 --> 00:34:34,480

emic documentary the seven

743

00:34:39,380 --> 00:34:36,450

characteristics to help you identify

744

00:34:41,909 --> 00:34:39,390

conspiratorial thinking include

745

00:34:45,090 --> 00:34:41,919

contradictory beliefs over rising

746

00:34:46,560 --> 00:34:45,100

suspicion belief in nefarious Tennant

747

00:34:49,710 --> 00:34:46,570

etc

748

00:34:53,880 --> 00:34:49,720

here's one should scientists take UFOs

749

00:34:56,040 --> 00:34:53,890

and ghosts more seriously actually this

750

00:34:58,560 --> 00:34:56,050

article is more about why one particular

751

00:35:02,040 --> 00:34:58,570

journalist takes UFOs and ghosts

752

00:35:04,610 --> 00:35:02,050

seriously you really only get into their

753

00:35:07,710 --> 00:35:04,620

tibula question in the last paragraph

754

00:35:10,770 --> 00:35:07,720

nonetheless interesting perspective on

755

00:35:13,800 --> 00:35:10,780

one journalists feelings even if it is

756

00:35:16,860 --> 00:35:13,810

too full of patra sponsors like quote

757

00:35:18,840 --> 00:35:16,870

I'm not sure in quote and quote I won't

758

00:35:22,500 --> 00:35:18,850

commit myself one way or the other in

759

00:35:26,010 --> 00:35:22,510

quote and quote you're entitled to your

760

00:35:28,590 --> 00:35:26,020

view and quote also a rise in paranormal

761

00:35:31,890 --> 00:35:28,600

activity in the home since quarantine

762

00:35:33,960 --> 00:35:31,900

one wonders what home some interesting

763

00:35:36,180 --> 00:35:33,970

and edifying examples of faulty logic

764

00:35:38,160 --> 00:35:36,190

here otherwise this piece would have

765

00:35:40,950 --> 00:35:38,170

been down the bottom of the news letter

766

00:35:44,160 --> 00:35:40,960

with the silly stuff and also we have

767

00:35:46,950 --> 00:35:44,170

the Nobel disease when intelligence

768

00:35:50,010 --> 00:35:46,960

fails to protect against irrationality

769

00:35:53,430 --> 00:35:50,020

and finally the newsletter says the June

770

00:35:54,960 --> 00:35:53,440

2020 issue of the skeptic the Journal

771

00:35:58,190 --> 00:35:54,970

from Australian skeptics will be out

772

00:36:02,360 --> 00:35:58,200

soon with a feature on chiropractic

773

00:36:05,240 --> 00:36:02,370

crazy claims doggie claims the

774

00:36:08,430 --> 00:36:05,250

complexities of subluxation complex

775

00:36:10,710 --> 00:36:08,440

sounds interesting and general

776

00:36:13,440 --> 00:36:10,720

pseudoscience underpinnings not to

777

00:36:15,360 --> 00:36:13,450

mention how not to make wine taste

778

00:36:18,030 --> 00:36:15,370

better under strict scientific

779

00:36:21,150 --> 00:36:18,040

conditions the inside a story on the

780

00:36:23,790 --> 00:36:21,160

Carlos hoax psychics and mystics in

781

00:36:27,930 --> 00:36:23,800

Australian history the story of Atlantis

782

00:36:29,970 --> 00:36:27,940

sunk and much more that's only a sample

783

00:36:32,460 --> 00:36:29,980

of what's available on the newsletter

784

00:36:35,780 --> 00:36:32,470

and again to sign up for this newsletter

785

00:36:38,260 --> 00:36:35,790

for yourself just go to WWE captain's

786

00:36:57,099 --> 00:36:38,270

comm a you

787

00:37:00,590 --> 00:36:57,109

[Music]

788

00:37:02,480 --> 00:37:00,600

well folks if you remember last year I

789

00:37:05,330 --> 00:37:02,490

was very lucky enough to go to Dragon

790

00:37:06,920 --> 00:37:05,340

Con in Atlanta Georgia and what a

791

00:37:08,630 --> 00:37:06,930

wonderful time I had and one of the

792

00:37:11,840 --> 00:37:08,640

fascinating people I met there was a

793

00:37:13,520 --> 00:37:11,850

young author by the name of Bailey

794

00:37:17,120 --> 00:37:13,530

Harris and she was writing a series of

795

00:37:19,550 --> 00:37:17,130

books about well exploring history in

796

00:37:22,460 --> 00:37:19,560

the universe based around the character

797

00:37:24,620 --> 00:37:22,470

of Stardust and I'm delighted to say

798

00:37:26,270 --> 00:37:24,630

once again joining me on the line all

799

00:37:28,609 --> 00:37:26,280

the way from the United States we have

800

00:37:31,220 --> 00:37:28,619

Bailey Harris hello Bailey hello how are

801  
00:37:33,830 --> 00:37:31,230  
you I'm doing very well lovely to see

802  
00:37:35,180 --> 00:37:33,840  
you because for the magic of zoom and

803  
00:37:37,820 --> 00:37:35,190  
all sorts of things like that we can see

804  
00:37:43,180 --> 00:37:37,830  
each other but also in the same meeting

805  
00:37:47,750 --> 00:37:43,190  
I'm joined by Ariel Massey from Brisbane

806  
00:37:50,030 --> 00:37:47,760  
who is very interesting has a very

807  
00:37:52,730 --> 00:37:50,040  
interesting life Ariel you're part of a

808  
00:37:55,820 --> 00:37:52,740  
group or an outlet or a company or

809  
00:37:57,920 --> 00:37:55,830  
something called steam galaxy studios

810  
00:37:59,840 --> 00:37:57,930  
but you're also a biologist what's

811  
00:38:03,260 --> 00:37:59,850  
what's your story what's your background

812  
00:38:05,960 --> 00:38:03,270  
yeah so I am a biologist first I would

813  
00:38:08,060 --> 00:38:05,970

say and then I came across game design

814

00:38:09,950 --> 00:38:08,070

as a wonderful way to teach science

815

00:38:12,380 --> 00:38:09,960

because science is very dynamic you see

816

00:38:14,630 --> 00:38:12,390

and so are games and so they make a

817

00:38:16,700 --> 00:38:14,640

great medium to teach and so I founded

818

00:38:18,620 --> 00:38:16,710

my company steam galaxy on the premise

819

00:38:20,960 --> 00:38:18,630

that games are particularly well suited

820

00:38:23,090 --> 00:38:20,970

to teach science I think you're

821

00:38:26,810 --> 00:38:23,100

absolutely right and what's the origin

822

00:38:28,700 --> 00:38:26,820

of the the term steam galaxy cuz it sort

823

00:38:30,890 --> 00:38:28,710

of reminds me a bit of steampunk you

824

00:38:32,450 --> 00:38:30,900

know a little bit of an old-fashioned

825

00:38:33,530 --> 00:38:32,460

and science fiction and things like that

826

00:38:36,590 --> 00:38:33,540

I'm really glad you brought that up

827

00:38:39,980 --> 00:38:36,600

because I love sci-fi but steam in

828

00:38:43,430 --> 00:38:39,990

particular relates to stem Plus arts so

829

00:38:45,620 --> 00:38:43,440

it is all caps but I like the idea of a

830

00:38:49,670 --> 00:38:45,630

steam galaxy it might have a milky way

831

00:38:51,920 --> 00:38:49,680

maybe it is very appealing stem plus

832

00:38:55,520 --> 00:38:51,930

arts equals steam galaxy that's

833

00:38:58,700 --> 00:38:55,530

fascinating and before we get talking

834

00:39:02,300 --> 00:38:58,710

about the original game and this is very

835

00:39:03,830 --> 00:39:02,310

interesting story folks let's oh I came

836

00:39:06,950 --> 00:39:03,840

across this bit of information about you

837

00:39:08,870 --> 00:39:06,960

and I thought oh dream of dreams you get

838

00:39:13,280 --> 00:39:08,880

to do something incredibly amazing you

839

00:39:16,190 --> 00:39:13,290

make 3d scans of rodents goals that's

840

00:39:18,170 --> 00:39:16,200

right so as you can hear from my accent

841

00:39:20,240 --> 00:39:18,180

I'm American but I live in Brisbane

842

00:39:23,120 --> 00:39:20,250

because I'm doing my PhD at the

843

00:39:25,220 --> 00:39:23,130

University of Queensland and what's so

844

00:39:27,380 --> 00:39:25,230

great about Australia is that you guys

845

00:39:32,030 --> 00:39:27,390

have the best most awesomely weird

846

00:39:34,670 --> 00:39:32,040

mammals and this includes not just the

847

00:39:36,710 --> 00:39:34,680

egg-laying monotremes and the marsupials

848

00:39:40,099 --> 00:39:36,720

with their delightful pouches but it

849

00:39:41,060 --> 00:39:40,109

also includes the native rodents and a

850

00:39:44,470 --> 00:39:41,070

lot of people don't realize that

851

00:39:47,660 --> 00:39:44,480

Australia has over 60 native rodents

852

00:39:48,859 --> 00:39:47,670

they're the most species million family

853

00:39:50,540 --> 00:39:48,869

on the continent which is quite an

854

00:39:52,400 --> 00:39:50,550

accomplishment given that they've only

855

00:39:53,540 --> 00:39:52,410

been here for about four million years

856

00:39:55,730 --> 00:39:53,550

so it's very interested in their

857

00:39:58,430 --> 00:39:55,740

evolution and one way that you can do

858

00:40:00,650 --> 00:39:58,440

that is by studying the shape of their

859

00:40:02,420 --> 00:40:00,660

skulls which are very complex and they

860

00:40:05,720 --> 00:40:02,430

encode a lot of information about what

861

00:40:08,150 --> 00:40:05,730

they do and how they orient their vision

862

00:40:11,270 --> 00:40:08,160

and so I get to use a very cool blue

863

00:40:14,900 --> 00:40:11,280

light 3d scanner which very quickly and

864

00:40:18,109 --> 00:40:14,910

economically allows me to capture 3d

865

00:40:20,750 --> 00:40:18,119

skills 3d scans of skulls and I use that

866

00:40:23,359 --> 00:40:20,760

as the basis of my data these scans of

867

00:40:26,150 --> 00:40:23,369

skulls yes evolutionary studies it's

868

00:40:34,430 --> 00:40:26,160

just it's it's like almost it should be

869

00:40:37,370 --> 00:40:34,440

a movie of course Wow so you can then

870

00:40:40,010 --> 00:40:37,380

print them out Wow

871

00:40:42,109 --> 00:40:40,020

Oh gotta love science that's just

872

00:40:44,930 --> 00:40:42,119

fascinating now Bailey back to you and

873

00:40:46,430 --> 00:40:44,940

just just to remind our audience of

874

00:40:49,700 --> 00:40:46,440

course I was speaking to you last year

875

00:40:51,410 --> 00:40:49,710

about the Stardust series of books and

876  
00:40:53,720 --> 00:40:51,420  
you wrote your first book when you were

877  
00:40:55,850 --> 00:40:53,730  
eight and just to remind us all what

878  
00:40:57,770 --> 00:40:55,860  
what inspires you to write that book

879  
00:40:59,780 --> 00:40:57,780  
when I was eight years old I was

880  
00:41:02,590 --> 00:40:59,790  
watching a show with my family that's

881  
00:41:08,720 --> 00:41:02,600  
called cosmos and Neil deGrasse Tyson

882  
00:41:10,940 --> 00:41:08,730  
who's who's the host of it said in one

883  
00:41:13,040 --> 00:41:10,950  
of the episodes our bodies are made of

884  
00:41:16,580 --> 00:41:13,050  
Stardust and as an eight-year-old I

885  
00:41:19,250 --> 00:41:16,590  
thought this was so surreal and I was

886  
00:41:21,980 --> 00:41:19,260  
like I have to go upstairs I have to

887  
00:41:25,300 --> 00:41:21,990  
write about it tell people about this I

888  
00:41:28,610 --> 00:41:25,310

thought it was so cool that's how I

889

00:41:31,010 --> 00:41:28,620

started off with my first book mmm well

890

00:41:32,720 --> 00:41:31,020

that that series cosmos with Neil

891

00:41:35,780 --> 00:41:32,730

deGrasse Tyson and the original series

892

00:41:38,060 --> 00:41:35,790

way back in the 80s with Carl Sagan my

893

00:41:40,160 --> 00:41:38,070

goodness me that that has inspired so

894

00:41:42,830 --> 00:41:40,170

many people including myself of course

895

00:41:46,760 --> 00:41:42,840

it's a wonderful series indeed now back

896

00:41:49,960 --> 00:41:46,770

to you Ariel for a moment we have the

897

00:41:52,640 --> 00:41:49,970

original game that you invented or

898

00:41:55,220 --> 00:41:52,650

co-created way back in 2014 called go

899

00:41:59,170 --> 00:41:55,230

extinct what was the idea behind that

900

00:42:01,580 --> 00:41:59,180

game yeah so I had the distinct honor of

901  
00:42:02,780 --> 00:42:01,590  
teaching full-time at Stanford

902  
00:42:05,900 --> 00:42:02,790  
University which is where I graduated

903  
00:42:07,880 --> 00:42:05,910  
from the year after I graduated in a

904  
00:42:10,430 --> 00:42:07,890  
course called human biology which

905  
00:42:12,230 --> 00:42:10,440  
combined not only the usual track of

906  
00:42:14,930 --> 00:42:12,240  
violent biological sciences but had a

907  
00:42:16,070 --> 00:42:14,940  
parallel track of courses of the social

908  
00:42:18,590 --> 00:42:16,080  
sciences and they tried to make them

909  
00:42:19,850 --> 00:42:18,600  
sync up as much as possible and what

910  
00:42:21,590 --> 00:42:19,860  
that meant is that I had a great

911  
00:42:24,470 --> 00:42:21,600  
diversity of students interested in

912  
00:42:26,600 --> 00:42:24,480  
anything and everything from medicine to

913  
00:42:29,210 --> 00:42:26,610

improving health policy in Washington

914

00:42:31,520 --> 00:42:29,220

and so that meant that I needed to make

915

00:42:33,830 --> 00:42:31,530

the course subject as interesting and

916

00:42:36,860 --> 00:42:33,840

engaging as compelling and accessible as

917

00:42:38,360 --> 00:42:36,870

possible to a wide diversity of learners

918

00:42:40,730 --> 00:42:38,370

and people with different you know

919

00:42:44,090 --> 00:42:40,740

backgrounds and preparedness for the

920

00:42:46,040 --> 00:42:44,100

biological track one of the concepts I

921

00:42:47,540 --> 00:42:46,050

had the most difficulty with was

922

00:42:49,790 --> 00:42:47,550

actually one of my favorite concepts

923

00:42:51,800 --> 00:42:49,800

which is the evolutionary tree which as

924

00:42:54,200 --> 00:42:51,810

an evolutionary biologist I sort of live

925

00:42:55,970 --> 00:42:54,210

in brief I like to compare it to a

926  
00:42:56,630 --> 00:42:55,980  
resident of stone like once you know how

927  
00:42:59,150 --> 00:42:56,640  
to read it

928  
00:43:01,430 --> 00:42:59,160  
you can you can approach a new set of

929  
00:43:03,380 --> 00:43:01,440  
organisms very easily by making

930  
00:43:03,830 --> 00:43:03,390  
inferences based on the organisms you

931  
00:43:06,470 --> 00:43:03,840  
understand

932  
00:43:09,740 --> 00:43:06,480  
yeah so I was trying to teach this

933  
00:43:12,590 --> 00:43:09,750  
concept which is a complicated concept

934  
00:43:15,020 --> 00:43:12,600  
to teach in a linear way like we do with

935  
00:43:18,620 --> 00:43:15,030  
books or with sand of lectures or even

936  
00:43:21,350 --> 00:43:18,630  
office hours so I decided I needed to

937  
00:43:24,260 --> 00:43:21,360  
invent a new way of teaching it and

938  
00:43:26,090 --> 00:43:24,270

gains because they're not linear they're

939

00:43:27,770 --> 00:43:26,100

dynamic they're actually sort of

940

00:43:30,080 --> 00:43:27,780

circular because you get to repeat the

941

00:43:31,970 --> 00:43:30,090

same sort of turn over and over you get

942

00:43:33,770 --> 00:43:31,980

to really practice that one idea of

943

00:43:37,970 --> 00:43:33,780

thinking about clades thinking about

944

00:43:41,120 --> 00:43:37,980

sets within sets and so that that'll

945

00:43:42,770 --> 00:43:41,130

experiment turned into a game turned

946

00:43:45,560 --> 00:43:42,780

into a Kickstarter turned into my

947

00:43:47,030 --> 00:43:45,570

company and has now turned into this

948

00:43:48,440 --> 00:43:47,040

collaboration which I'm very excited

949

00:43:50,300 --> 00:43:48,450

about now let's talk about this

950

00:43:52,610 --> 00:43:50,310

collaboration you two have got together

951  
00:43:55,010 --> 00:43:52,620  
the Stardust series of books and the

952  
00:43:58,760 --> 00:43:55,020  
little Stardust character plus this game

953  
00:44:00,920 --> 00:43:58,770  
called go extinct and the new game the

954  
00:44:04,160 --> 00:44:00,930  
new game has appeared go extinct

955  
00:44:05,780 --> 00:44:04,170  
Stardust catches the carnivores and I'm

956  
00:44:09,080 --> 00:44:05,790  
very lucky folks I tell you what I'm

957  
00:44:10,760 --> 00:44:09,090  
just I've got the whole game right here

958  
00:44:13,280 --> 00:44:10,770  
oh there it goes crashing into

959  
00:44:14,720 --> 00:44:13,290  
microphone I've got the whole game right

960  
00:44:17,000 --> 00:44:14,730  
here I'm holding it up so everybody can

961  
00:44:18,500 --> 00:44:17,010  
see it look at that and where to

962  
00:44:20,360 --> 00:44:18,510  
describe it it's it's it's fascinating

963  
00:44:22,910 --> 00:44:20,370

it's that it's like the evolutionary

964

00:44:24,940 --> 00:44:22,920

tree we've got the Maya sit down the

965

00:44:28,250 --> 00:44:24,950

bottom there we've Stardust

966

00:44:30,980 --> 00:44:28,260

ancestor of Carnivora and all the

967

00:44:32,660 --> 00:44:30,990

descendants well many of them about 58

968

00:44:34,700 --> 00:44:32,670

different animals going through to the

969

00:44:36,050 --> 00:44:34,710

modern era with things like the cat and

970

00:44:37,820 --> 00:44:36,060

the painted wolf and we've got the

971

00:44:41,150 --> 00:44:37,830

elephant seal the skunk we're going back

972

00:44:44,230 --> 00:44:41,160

through history all the ancestors right

973

00:44:46,760 --> 00:44:44,240

back to the original one and the game

974

00:44:48,140 --> 00:44:46,770

comes with a series of cards which I'm

975

00:44:49,760 --> 00:44:48,150

picking up now which tell you a little

976

00:44:53,240 --> 00:44:49,770

bit that we've got the gray wolf we've

977

00:44:55,730 --> 00:44:53,250

got the the cheetah all the carnivores

978

00:44:57,280 --> 00:44:55,740

and we can see on the card we can check

979

00:45:00,650 --> 00:44:57,290

in all there's little little

980

00:45:03,590 --> 00:45:00,660

evolutionary history there and area I

981

00:45:07,480 --> 00:45:03,600

believe the game is loosely based on the

982

00:45:10,970 --> 00:45:07,490

game fish or go fish that's right yes so

983

00:45:13,280 --> 00:45:10,980

like go fish you're just collecting sets

984

00:45:15,330 --> 00:45:13,290

but instead of collecting sets of

985

00:45:18,120 --> 00:45:15,340

numbers you're collecting sets

986

00:45:20,220 --> 00:45:18,130

closely related animals which in biology

987

00:45:23,250 --> 00:45:20,230

we call crown glades so you're trying to

988

00:45:26,250 --> 00:45:23,260

get a monophyletic clade which is all of

989

00:45:28,500 --> 00:45:26,260

the unique animals so in the sort of

990

00:45:30,900 --> 00:45:28,510

wolf group the true dog group you would

991

00:45:33,810 --> 00:45:30,910

need the gray wolf the painted wolf

992

00:45:35,490 --> 00:45:33,820

yeah the bush dog and Darwin Zorro so

993

00:45:37,890 --> 00:45:35,500

you need those four animals and you use

994

00:45:40,590 --> 00:45:37,900

the evolutionary tree to figure out what

995

00:45:43,470 --> 00:45:40,600

those animals were and what other things

996

00:45:45,810 --> 00:45:43,480

you could ask to get them Wow so the

997

00:45:47,550 --> 00:45:45,820

twist with with these games is that not

998

00:45:50,460 --> 00:45:47,560

only can you ask for the specific animal

999

00:45:52,950 --> 00:45:50,470

you can ask for the ancestors too so you

1000

00:45:55,710 --> 00:45:52,960

could ask for any true dog so any of

1001  
00:45:58,740 --> 00:45:55,720  
those four animals I explained or you

1002  
00:46:00,120 --> 00:45:58,750  
could ask for any doglike animal you can

1003  
00:46:03,210 --> 00:46:00,130  
even ask for the myosin which would be

1004  
00:46:05,640 --> 00:46:03,220  
any any carnivore so it really really

1005  
00:46:07,260 --> 00:46:05,650  
practices that thinking of clay thinking

1006  
00:46:10,290 --> 00:46:07,270  
which we call so-called tree thinking

1007  
00:46:13,650 --> 00:46:10,300  
and working with the probabilities of

1008  
00:46:16,380 --> 00:46:13,660  
what you're likely to get now Bailey how

1009  
00:46:19,410 --> 00:46:16,390  
did you actually end up hooking up with

1010  
00:46:23,730 --> 00:46:19,420  
area for this project we started off at

1011  
00:46:25,620 --> 00:46:23,740  
like Kickstarter and I like found her

1012  
00:46:28,560 --> 00:46:25,630  
game and I thought it was so cool and

1013  
00:46:31,560 --> 00:46:28,570

then we like got connected and we talked

1014

00:46:34,740 --> 00:46:31,570

and I think that's pretty much how it

1015

00:46:37,740 --> 00:46:34,750

happened a little bit more well I think

1016

00:46:40,530 --> 00:46:37,750

your your startup's explores earth

1017

00:46:42,270 --> 00:46:40,540

wonders was the first real collaboration

1018

00:46:44,280 --> 00:46:42,280

that we started and that was so much fun

1019

00:46:45,870 --> 00:46:44,290

I was really honored that you asked me

1020

00:46:49,560 --> 00:46:45,880

to help you with that because it's such

1021

00:46:51,870 --> 00:46:49,570

a great book and one of the reasons we

1022

00:46:53,640 --> 00:46:51,880

decided to focus on carnivores is

1023

00:46:56,520 --> 00:46:53,650

because Bailey chose a lot of great

1024

00:46:58,350 --> 00:46:56,530

examples involving carnivores in her

1025

00:47:03,120 --> 00:46:58,360

latest book so everything from bears to

1026

00:47:04,170 --> 00:47:03,130

wolves to the Maya said itself so she

1027

00:47:06,090 --> 00:47:04,180

already had a lot of amazing

1028

00:47:07,740 --> 00:47:06,100

illustrations to include in the game so

1029

00:47:10,080 --> 00:47:07,750

that was really fun well it sounds like

1030

00:47:12,450 --> 00:47:10,090

a fabulous meeting of the minds there

1031

00:47:15,360 --> 00:47:12,460

now Bailey to you why do you think that

1032

00:47:18,330 --> 00:47:15,370

evolution education is so important to

1033

00:47:19,380 --> 00:47:18,340

you personally and what do you think why

1034

00:47:20,700 --> 00:47:19,390

do you think it's so important to

1035

00:47:23,070 --> 00:47:20,710

children all around the world

1036

00:47:25,800 --> 00:47:23,080

evolution has helped me understand how I

1037

00:47:28,970 --> 00:47:25,810

am connected to everything in our world

1038

00:47:34,230 --> 00:47:28,980

and I feel like when I look at other

1039

00:47:38,160 --> 00:47:34,240

animal even a plant is amazing so it's

1040

00:47:43,170 --> 00:47:38,170

me to understand that we all have common

1041

00:47:45,210 --> 00:47:43,180

ancestors is just amazing so yeah it's

1042

00:47:47,400 --> 00:47:45,220

absolutely amazing it's fascinating to

1043

00:47:50,070 --> 00:47:47,410

learn these things I personally find it

1044

00:47:53,670 --> 00:47:50,080

when I discovered some years ago many

1045

00:47:56,010 --> 00:47:53,680

years ago that birds are the descendants

1046

00:47:58,230 --> 00:47:56,020

of some dinosaurs that just blew my mind

1047

00:48:00,150 --> 00:47:58,240

I thought that was just amazing and I

1048

00:48:04,410 --> 00:48:00,160

saw a little sparrow

1049

00:48:07,860 --> 00:48:04,420

Wow it's a descendant from a dinosaur

1050

00:48:09,690 --> 00:48:07,870

that's it's it really maybe that can be

1051

00:48:11,880 --> 00:48:09,700

the next one maybe it's birds to

1052

00:48:16,350 --> 00:48:11,890

dinosaurs oh it's endless it's endless

1053

00:48:18,840 --> 00:48:16,360

fun now how can people get in touch with

1054

00:48:21,270 --> 00:48:18,850

you or find out more about steam Galaxy

1055

00:48:27,270 --> 00:48:21,280

Studios certainly well we have a website

1056

00:48:30,120 --> 00:48:27,280

it's WWE steam galaxy calm and that my

1057

00:48:33,930 --> 00:48:30,130

contact email is there or they can email

1058

00:48:36,180 --> 00:48:33,940

me at AE Marcy at Steam you'll see calm

1059

00:48:37,800 --> 00:48:36,190

I'm very happy to talk about anything

1060

00:48:40,560 --> 00:48:37,810

and everything from evolutionary biology

1061

00:48:43,020 --> 00:48:40,570

to game design and we have lots of free

1062

00:48:45,540 --> 00:48:43,030

resources on the website in particular

1063

00:48:47,820 --> 00:48:45,550

for teachers aligning the game with

1064

00:48:50,520 --> 00:48:47,830

standards both in Australia and in the

1065

00:48:52,110 --> 00:48:50,530

US and hopefully they're understandable

1066

00:48:55,380 --> 00:48:52,120

and applicable to other places as well

1067

00:48:57,960 --> 00:48:55,390

and there's a cool design your own app

1068

00:48:59,460 --> 00:48:57,970

that people can use to sort of explore

1069

00:49:01,320 --> 00:48:59,470

what the game is about and make their

1070

00:49:04,350 --> 00:49:01,330

own versions with Australian animals

1071

00:49:06,450 --> 00:49:04,360

very cool and then of course we have

1072

00:49:09,960 --> 00:49:06,460

more information about the kind of our

1073

00:49:13,800 --> 00:49:09,970

Edition as well and of course we can say

1074

00:49:15,510 --> 00:49:13,810

that now as people are listening and

1075

00:49:17,730 --> 00:49:15,520

they're finding this is fascinating

1076

00:49:19,440 --> 00:49:17,740

fun as I am they can help out indeed

1077

00:49:22,080 --> 00:49:19,450

there's a Kickstarter isn't there that's

1078

00:49:23,610 --> 00:49:22,090

right yeah we're we're both running the

1079

00:49:28,170 --> 00:49:23,620

Kickstarter Bailey's the lead on that

1080

00:49:29,910 --> 00:49:28,180

and we're just a week in and very

1081

00:49:33,540 --> 00:49:29,920

exciting we're almost halfway there so

1082

00:49:35,760 --> 00:49:33,550

we'd love if this if this game sounds of

1083

00:49:38,280 --> 00:49:35,770

any interest we'd love you to support

1084

00:49:40,410 --> 00:49:38,290

and you can check it out on Kickstarter

1085

00:49:42,810 --> 00:49:40,420

that's great because I had a quick look

1086

00:49:44,520 --> 00:49:42,820

myself and when you go there you can get

1087

00:49:46,200 --> 00:49:44,530

a much better understanding of the game

1088

00:49:48,870 --> 00:49:46,210

you can see the wonderful illustrations

1089

00:49:52,350 --> 00:49:48,880

how the board works the cards you can

1090

00:49:54,300 --> 00:49:52,360

see Bailey and yourself so I suggest and

1091

00:49:55,920 --> 00:49:54,310

everybody go and have a look at that

1092

00:49:57,930 --> 00:49:55,930

check it out for yourself I'll add a

1093

00:50:00,150 --> 00:49:57,940

link to the Kickstarter folks in this

1094

00:50:02,280 --> 00:50:00,160

week's show notes but my goodness me

1095

00:50:05,720 --> 00:50:02,290

what a what a treat it's been for me to

1096

00:50:08,010 --> 00:50:05,730

chat to such two great minds on

1097

00:50:09,960 --> 00:50:08,020

different sides of the planet working

1098

00:50:12,750 --> 00:50:09,970

together to create something to educate

1099

00:50:14,040 --> 00:50:12,760

children so Bailey all the way over

1100

00:50:15,450 --> 00:50:14,050

there in the United States thank you

1101  
00:50:17,460 --> 00:50:15,460  
very much great to see you again

1102  
00:50:26,670 --> 00:50:17,470  
yeah thanks for having me it was very

1103  
00:50:28,710 --> 00:50:26,680  
fun in Brisbane up there in Queensland

1104  
00:50:29,310 --> 00:50:28,720  
thank you thank you very much for this

1105  
00:50:29,950 --> 00:50:29,320  
opportunity

1106  
00:50:48,290 --> 00:50:29,960  
we appreciate it

1107  
00:50:52,200 --> 00:50:50,790  
thank you for listening to the skeptics

1108  
00:50:54,720 --> 00:50:52,210  
own podcast and thank you to those

1109  
00:50:56,250 --> 00:50:54,730  
people as ever who continue to support

1110  
00:50:57,960 --> 00:50:56,260  
the skipping zone and those new people

1111  
00:51:00,420 --> 00:50:57,970  
who have just come on board to support

1112  
00:51:03,930 --> 00:51:00,430  
the sceptic zone via patreon or PayPal

1113  
00:51:06,210 --> 00:51:03,940

you wouldn't believe the difference five

1114

00:51:08,760 --> 00:51:06,220

dollars a month makes here at the

1115

00:51:12,150 --> 00:51:08,770

sceptic zone and as I've mentioned

1116

00:51:14,640 --> 00:51:12,160

before until things get back to normal

1117

00:51:17,490 --> 00:51:14,650

my other sources of income of sort of

1118

00:51:20,070 --> 00:51:17,500

that they're on holiday have gone

1119

00:51:22,320 --> 00:51:20,080

they're having a rest my other sources

1120

00:51:25,260 --> 00:51:22,330

of income so if it wasn't for the people

1121

00:51:28,220 --> 00:51:25,270

who support the sceptic zone I guess I'd

1122

00:51:30,840 --> 00:51:28,230

be not doing the skeptics own anymore

1123

00:51:33,270 --> 00:51:30,850

but yes five dollars a month from enough

1124

00:51:35,910 --> 00:51:33,280

people of course makes a huge difference

1125

00:51:38,940 --> 00:51:35,920

so you can go to skeptic zone dot TV

1126

00:51:42,870 --> 00:51:38,950

have a look at the subscription link or

1127

00:51:47,040 --> 00:51:42,880

the patreon PayPal link and it would be

1128

00:51:49,740 --> 00:51:47,050

very helpful for the show if more of you

1129

00:51:52,320 --> 00:51:49,750

in fact would chip in for \$5.00 a month

1130

00:51:54,420 --> 00:51:52,330

I don't think honestly I don't think

1131

00:51:56,940 --> 00:51:54,430

that's too much to ask if you enjoy the

1132

00:51:58,590 --> 00:51:56,950

show each week if it means something to

1133

00:52:01,650 --> 00:51:58,600

you if you get something out of it if it

1134

00:52:04,350 --> 00:52:01,660

helps you pass an hour every week or if

1135

00:52:06,270 --> 00:52:04,360

you learn something and I think the

1136

00:52:09,660 --> 00:52:06,280

skeptic Zone reporters and I will be

1137

00:52:11,400 --> 00:52:09,670

doing another think tank online think

1138

00:52:12,870 --> 00:52:11,410

tank probably in the next couple of

1139

00:52:14,910 --> 00:52:12,880

weeks I'll ask them if they can get

1140

00:52:18,780 --> 00:52:14,920

together I had such a lot of fun doing

1141

00:52:22,260 --> 00:52:18,790

that a couple of weeks ago don't forget

1142

00:52:24,450 --> 00:52:22,270

to check out skeptics on TV in fact to

1143

00:52:28,020 --> 00:52:24,460

look at all the show notes for each

1144

00:52:30,630 --> 00:52:28,030

episode that goes out including the time

1145

00:52:32,670 --> 00:52:30,640

code for every segment if you're

1146

00:52:33,990 --> 00:52:32,680

interested in just one segment or

1147

00:52:35,880 --> 00:52:34,000

another you can check out where those

1148

00:52:39,150 --> 00:52:35,890

time codes are go straight to that

1149

00:52:43,530 --> 00:52:39,160

segment and indeed if you're listening

1150

00:52:46,890 --> 00:52:43,540

to this on your iPhone you can just

1151

00:52:51,420 --> 00:52:46,900

click the time code link in the player

1152

00:52:54,690 --> 00:52:51,430

and also see the images change as each

1153

00:52:58,779 --> 00:52:54,700

segment changes isn't technology just

1154

00:53:00,819 --> 00:52:58,789

wonderful but for this week

1155

00:53:03,459 --> 00:53:00,829

talking into two microphones for a test

1156

00:53:06,039 --> 00:53:03,469

today this is Richard Saunders in the

1157

00:53:12,400 --> 00:53:06,049

skeptics and studios signing off from

1158

00:53:15,130 --> 00:53:12,410

Sydney Australia you've been listening

1159

00:53:22,089 --> 00:53:15,140

to the skeptics zone podcast please

1160

00:53:24,069 --> 00:53:22,099

visit our website at [wwlp.com](http://wwlp.com) tax and to

1161

00:53:28,150 --> 00:53:24,079

access the back catalog of episodes

1162

00:53:30,089 --> 00:53:28,160

going back to 2008 you can follow the

1163

00:53:33,579 --> 00:53:30,099

skeptic zone podcast on twitter at

1164

00:53:36,969 --> 00:53:33,589

skeptic zone visit our facebook page or

1165

00:53:39,579 --> 00:53:36,979

leave a review on itunes you can also

1166

00:53:42,909 --> 00:53:39,589

support the skeptic zone via patreon or

1167

00:53:45,549 --> 00:53:42,919

PayPal the skeptic zone podcast is an

1168

00:53:47,380 --> 00:53:45,559

independent production the views and

1169

00:53:49,630 --> 00:53:47,390

opinions expressed on the skeptic zone

1170

00:53:52,179 --> 00:53:49,640

are not necessarily those of Australian

1171

00:53:53,100 --> 00:53:52,189

skeptics or any other sceptical

1172

00:54:05,740 --> 00:53:53,110

organisation

1173

00:54:18,490 --> 00:54:10,210

and d-10 d-10 here's one that's a better

1174

00:54:21,430 --> 00:54:18,500

one it's a pretty why okay I always have

1175

00:54:24,790 --> 00:54:21,440

to write them I sometimes I've done this

1176  
00:54:28,740 --> 00:54:24,800  
before recording myself and I get to the

1177  
00:54:34,420 --> 00:54:31,720  
yes folks joining me now at the end of

1178  
00:54:35,740 --> 00:54:34,430  
the show from near the beginning of the

1179  
00:54:42,880 --> 00:54:35,750  
show it's Susan go back hello once again

1180  
00:54:44,470 --> 00:54:42,890  
Susan you're gonna win this bit

1181  
00:54:46,150 --> 00:54:44,480  
different today it's the dice game folks

1182  
00:54:48,190 --> 00:54:46,160  
for those of you don't know sometimes

1183  
00:54:52,390 --> 00:54:48,200  
after the music ends the show keeps

1184  
00:54:54,250 --> 00:54:52,400  
going we roll a die three times and well

1185  
00:54:58,690 --> 00:54:54,260  
you use your psychic or dumb luck

1186  
00:55:00,190 --> 00:54:58,700  
prediction predicting power to see if

1187  
00:55:03,220 --> 00:55:00,200  
you can guess what the numbers gonna be

1188  
00:55:05,080 --> 00:55:03,230

I'm gonna be using a d-10 this time

1189

00:55:07,330 --> 00:55:05,090

Susan and I'm gonna hold it up to the

1190

00:55:11,440 --> 00:55:07,340

camera so you can verify for everybody

1191

00:55:13,990 --> 00:55:11,450

look at that beautiful blue yeah but I'm

1192

00:55:15,460 --> 00:55:14,000

going to roll it three times but I'm

1193

00:55:18,820 --> 00:55:15,470

gonna roll it twice three times what I

1194

00:55:22,540 --> 00:55:18,830

mean is the numbers are going to be from

1195

00:55:25,540 --> 00:55:22,550

1 to 100 this time so I'm gonna roll the

1196

00:55:28,030 --> 00:55:25,550

first time it'll be the tens column so

1197

00:55:28,450 --> 00:55:28,040

to speak and the second will be the ones

1198

00:55:31,330 --> 00:55:28,460

column

1199

00:55:36,400 --> 00:55:31,340

so Susan hmm what's your first

1200

00:55:43,660 --> 00:55:36,410

prediction you've got from 1 to 105

1201

00:55:50,980 --> 00:55:43,670

sure okay here we go the first roll for

1202

00:55:53,560 --> 00:55:50,990

the tens column is oh it's a 9 so it's

1203

00:55:57,460 --> 00:55:53,570

going to be 90 something here we go

1204

00:56:02,170 --> 00:55:57,470

second roll 90

1205

00:56:04,570 --> 00:56:02,180

oh that's interesting 99 okay so that's

1206

00:56:10,480 --> 00:56:04,580

the first numbers 99 gonna rattle it a

1207

00:56:15,040 --> 00:56:10,490

lot let's rattle okay next guess 5

1208

00:56:21,010 --> 00:56:15,050

oh here we go first roll for the tens

1209

00:56:28,030 --> 00:56:21,020

column is a 7 mm second roll

1210

00:56:32,140 --> 00:56:28,040

so it's 74 is the second number 74

1211

00:56:34,810 --> 00:56:32,150

I'm us now it's time for me to use my

1212

00:56:41,560 --> 00:56:34,820

psychic powers I think Susan's gonna

1213

00:56:43,720 --> 00:56:41,570

predict five Susan five five here we go

1214

00:56:48,940 --> 00:56:43,730

first well for the tens column is and

1215

00:56:52,570 --> 00:56:48,950

five hasn't even come up yet first roll

1216

00:56:55,180 --> 00:56:52,580

is nine again it's interesting very high

1217

00:57:02,440 --> 00:56:55,190

numbers this time nine and the second

1218

00:57:14,829 --> 00:57:02,450

number is zero zero do come up so okay

1219

00:57:27,660 --> 00:57:14,839

so the numbers this week the winning

1220

00:57:29,829 --> 00:57:27,670

numbers this week on 99 74 and 9005

1221

00:57:31,630 --> 00:57:29,839

somebody something clever listener out

1222

00:57:34,660 --> 00:57:31,640

there is going to figure out how to make

1223

00:57:39,160 --> 00:57:34,670

all those numbers 5 will I do it one

1224

00:57:44,040 --> 00:57:39,170

more time just for you ok what number do

1225

00:57:48,700 --> 00:57:46,660

after a hard day's skepticism this is

1226

00:57:52,359 --> 00:57:48,710

quite fun here we go first number coming

1227

00:57:53,620 --> 00:57:52,369

up in the tens column ah I kid you not I

1228

00:57:59,650 --> 00:57:53,630

kid you not I'm gonna hold it up so you

1229

00:58:03,130 --> 00:57:59,660

can see it it's a 5 that's right it's

1230

00:58:10,420 --> 00:58:03,140

gonna be 50 well at least a 5 did come

1231

00:58:18,730 --> 00:58:10,430

up you know ok 50 55 hiding oh here we

1232

00:58:20,140 --> 00:58:18,740

go 5700 two away Thank You Susan

1233

00:58:23,260 --> 00:58:20,150

I never will

1234

00:58:25,240 --> 00:58:23,270

I always play this game and I never win

1235

00:58:27,820 --> 00:58:25,250

but I guess I can't influence it because

1236

00:58:29,980 --> 00:58:27,830

of its already recorded when I'm

1237

00:58:31,900 --> 00:58:29,990

listening to it it is it's a bit strange

1238

00:58:34,210 --> 00:58:31,910

and that other noise you hear is

1239

00:58:36,400 --> 00:58:34,220

Henrietta the cat at the office door

1240

00:58:38,830 --> 00:58:36,410

trying to break in maybe she wants to

1241

00:58:40,600 --> 00:58:38,840

play the dice game I'm sure she would