

Episode **610**

THE  
**SKEPTIC  
ZONE**  
PODCAST

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

21 June 2020

Maynard with  
George Hrab

Logical Fallacies  
with Michelle Bijkersma  
"Non Sequitur"

Australian Skeptics News

The Book of Tim  
The History of Chiropractic  
part #2



1  
00:00:13,940 --> 00:00:09,110  
welcome to the skeptic zone the podcast

2  
00:00:16,840 --> 00:00:13,950  
from Australia for science and reason

3  
00:00:22,620 --> 00:00:16,850  
[Applause]

4  
00:00:26,190 --> 00:00:22,630  
[Music]

5  
00:00:30,120 --> 00:00:26,200  
yes it's the skeptic zone episode number

6  
00:00:32,019 --> 00:00:30,130  
610 for the 21st of June 2020

7  
00:00:34,960 --> 00:00:32,029  
richardsaunders here with you from

8  
00:00:38,140 --> 00:00:34,970  
Sydney Australia and it's been pouring

9  
00:00:40,020 --> 00:00:38,150  
and just in the last 10 minutes the rain

10  
00:00:42,520 --> 00:00:40,030  
stopped and all the birds are singing

11  
00:00:46,119 --> 00:00:42,530  
getting in their songs before the rain

12  
00:00:49,360 --> 00:00:46,129  
comes back I guess and for those who

13  
00:00:51,549 --> 00:00:49,370

want to know this is Sunday morning here

14

00:00:53,680 --> 00:00:51,559

in Australia in Sydney Australia coming

15

00:00:56,799 --> 00:00:53,690

up on this week's show its Maynard

16

00:00:58,689 --> 00:00:56,809

spooky action this week may not chat to

17

00:01:00,250 --> 00:00:58,699

a an old friend of the skeptics and an

18

00:01:02,979 --> 00:01:00,260

old friend of skepticism as an old

19

00:01:08,890 --> 00:01:02,989

friend of mine the one the only

20

00:01:10,990 --> 00:01:08,900

George Rob the singing skeptic the the

21

00:01:16,930 --> 00:01:11,000

man who first came to my attention when

22

00:01:18,969 --> 00:01:16,940

I met him in 2008 in DragonCon Atlanta I

23

00:01:21,460 --> 00:01:18,979

wonder if Dragon Con is going ahead this

24

00:01:24,430 --> 00:01:21,470

year sadly of course due to travel

25

00:01:27,130 --> 00:01:24,440

restrictions I can't make it damn oh

26  
00:01:30,700 --> 00:01:27,140  
well anyway I met George Rob way back in

27  
00:01:32,350 --> 00:01:30,710  
2008 and I remember going to one of his

28  
00:01:35,770 --> 00:01:32,360  
late night concerts and falling asleep

29  
00:01:38,200 --> 00:01:35,780  
because I was so jet-lagged no offense

30  
00:01:40,359 --> 00:01:38,210  
George this week main odd chats to

31  
00:01:41,469 --> 00:01:40,369  
George about all sorts of things you

32  
00:01:44,590 --> 00:01:41,479  
never know what they're going to talk

33  
00:01:46,990 --> 00:01:44,600  
about next but we do end up with George

34  
00:01:49,870 --> 00:01:47,000  
singing the theme song from the James

35  
00:01:51,550 --> 00:01:49,880  
Bond movie Moonraker yeah that's what

36  
00:01:55,450 --> 00:01:51,560  
happens when Maynard interviews you and

37  
00:01:58,959 --> 00:01:55,460  
I have been enjoying George's 13 song

38  
00:02:01,330 --> 00:01:58,969

series of concerts live every couple of

39

00:02:04,090 --> 00:02:01,340

weeks online anyway I'll be adding links

40

00:02:06,669 --> 00:02:04,100

to Geo's website in this week's show

41

00:02:07,989 --> 00:02:06,679

notes after that it's logical fallacies

42

00:02:09,999 --> 00:02:07,999

with Michelle bickers MA

43

00:02:12,910 --> 00:02:10,009

this week Michelle will be looking at

44

00:02:16,180 --> 00:02:12,920

the non sequitur I wonder if that

45

00:02:18,670 --> 00:02:16,190

follows no it doesn't anyway the non

46

00:02:20,800 --> 00:02:18,680

sequitur a logical fallacy with Michelle

47

00:02:22,809 --> 00:02:20,810

because ma then to round off the show

48

00:02:25,900 --> 00:02:22,819

it's the book of Tim with Tim Mendham

49

00:02:28,990 --> 00:02:25,910

and this week Tim continues his two-part

50

00:02:31,360 --> 00:02:29,000

series on chiropractic and that features

51  
00:02:33,160 --> 00:02:31,370  
it's a big feature on chiropractic in

52  
00:02:34,300 --> 00:02:33,170  
the latest issue of the skeptic magazine

53  
00:02:36,910 --> 00:02:34,310  
the journal from

54  
00:02:39,910 --> 00:02:36,920  
in sceptics and this week Tim will be

55  
00:02:42,339 --> 00:02:39,920  
looking at the Cairo Wars now if you are

56  
00:02:46,180 --> 00:02:42,349  
looking on the show notes at skeptic

57  
00:02:48,809 --> 00:02:46,190  
zone TV in every show note at the moment

58  
00:02:52,330 --> 00:02:48,819  
I'm including a link to corona

59  
00:02:55,089 --> 00:02:52,340  
conspiracy dot cloud it's a website been

60  
00:02:58,630 --> 00:02:55,099  
put together a couple of months ago for

61  
00:03:02,710 --> 00:02:58,640  
people like you and me to upload corona

62  
00:03:06,610 --> 00:03:02,720  
virus conspiracies and anybody is free

63  
00:03:10,120 --> 00:03:06,620

to go there and peruse the amazing list

64

00:03:12,670 --> 00:03:10,130  
of entries already put up there by

65

00:03:16,840 --> 00:03:12,680  
people all around the world what's this

66

00:03:17,820 --> 00:03:16,850  
one I'm just looking there now covert 5g

67

00:03:21,300 --> 00:03:17,830  
gates

68

00:03:24,940 --> 00:03:21,310  
good grief and that's this one

69

00:03:29,860 --> 00:03:24,950  
covert 19 is a false flag operation to

70

00:03:31,990 --> 00:03:29,870  
usher in New World Order anyway have a

71

00:03:34,900 --> 00:03:32,000  
visit and peruse all the incredible

72

00:03:37,479 --> 00:03:34,910  
corona virus conspiracies that have been

73

00:03:40,180 --> 00:03:37,489  
floating around and if you find one you

74

00:03:43,810 --> 00:03:40,190  
can take a photograph and upload that

75

00:03:45,430 --> 00:03:43,820  
too and you can do searches via tags and

76

00:03:49,720 --> 00:03:45,440

look at details it's a fantastical

77

00:03:52,390 --> 00:03:49,730

resource that's Corona conspiracy cloud

78

00:03:56,340 --> 00:03:52,400

and no matter where you are in the world

79

00:03:59,800 --> 00:03:56,350

if you're in Mexico Ireland Bulgaria

80

00:04:02,920 --> 00:03:59,810

anywhere you can upload images to that

81

00:04:05,620 --> 00:04:02,930

to that website but now it's time for me

82

00:04:09,160 --> 00:04:05,630

to run downstairs and look in the fridge

83

00:04:11,500 --> 00:04:09,170

for some leftover barbecued sausage mmm

84

00:04:14,830 --> 00:04:11,510

I think there might be one or two bit of

85

00:04:17,050 --> 00:04:14,840

toast cold sausage on toast it's alright

86

00:04:18,710 --> 00:04:17,060

believe me well I do that my hope you

87

00:04:33,580 --> 00:04:18,720

enjoy the skeptic Zone

88

00:04:41,180 --> 00:04:38,500

years may not spooky action at the

89

00:04:44,189 --> 00:04:43,050

look ladies and gentlemen I've got

90

00:04:45,689 --> 00:04:44,199

someone on the line here's someone very

91

00:04:47,909 --> 00:04:45,699

important sure you might thinking him as

92

00:04:49,230 --> 00:04:47,919

a sceptical guide Georgia Rabb is a man

93

00:04:51,180 --> 00:04:49,240

who could do many things he can drive

94

00:04:53,070 --> 00:04:51,190

German cars he can drive Japanese

95

00:04:54,510 --> 00:04:53,080

produced cars he could not drive trucks

96

00:04:55,890 --> 00:04:54,520

with a very high ceiling through low

97

00:04:58,379 --> 00:04:55,900

windows but that's nothing don't worry

98

00:05:01,499 --> 00:04:58,389

about that he can use Imperial he can

99

00:05:02,909 --> 00:05:01,509

use metric he can do a podcast about how

100

00:05:04,590 --> 00:05:02,919

to paint your land room he can do a

101  
00:05:05,010 --> 00:05:04,600  
podcast about how to change a car

102  
00:05:07,529 --> 00:05:05,020  
battery

103  
00:05:09,270 --> 00:05:07,539  
he can do anything in fact he will be

104  
00:05:12,420 --> 00:05:09,280  
doing anything for you right now please

105  
00:05:15,469 --> 00:05:12,430  
make welcome make take my unfinished

106  
00:05:18,600 --> 00:05:15,479  
life and make it complete Georgia rap

107  
00:05:21,029 --> 00:05:18,610  
there's no way I could possibly live up

108  
00:05:23,520 --> 00:05:21,039  
to that kind of an intro my goodness oh

109  
00:05:24,840 --> 00:05:23,530  
come come on man every time I've spoken

110  
00:05:27,090 --> 00:05:24,850  
to you it's been world class

111  
00:05:29,189 --> 00:05:27,100  
award-winning stuff oh well you're very

112  
00:05:31,439 --> 00:05:29,199  
kind and it's very early for me and it's

113  
00:05:36,300 --> 00:05:31,449

very late for you and this time I've got

114

00:05:38,310 --> 00:05:36,310

I've got the drama hey you got a bit of

115

00:05:39,749 --> 00:05:38,320

a flat action what else does one need Oh

116

00:05:41,670 --> 00:05:39,759

what else does one need apart from an

117

00:05:45,089 --> 00:05:41,680

international trombone 8:00 in the

118

00:05:47,400 --> 00:05:45,099

morning Oh even better again that's my

119

00:05:49,320 --> 00:05:47,410

Southside Johnny in the Dukes memorial

120

00:05:51,629 --> 00:05:49,330

harmonica they gave me please explain to

121

00:05:53,010 --> 00:05:51,639

people who might for some reason be

122

00:05:53,600 --> 00:05:53,020

listening the skeptic zone and not know

123

00:05:56,250 --> 00:05:53,610

who you are

124

00:05:58,740 --> 00:05:56,260

explain Hawaii and briefly I mean what

125

00:06:00,659 --> 00:05:58,750

on top of what you just did oh my gosh

126

00:06:02,189 --> 00:06:00,669

you know well I mean I mean because I

127

00:06:04,830 --> 00:06:02,199

missed so much I mean there's so many

128

00:06:07,980 --> 00:06:04,840

things with Mortimer I missed the rabbi

129

00:06:10,080 --> 00:06:07,990

with the alibi missed him oh my gosh I

130

00:06:12,300 --> 00:06:10,090

have a silly little podcast that I've

131

00:06:14,909 --> 00:06:12,310

been doing since 1937

132

00:06:16,649 --> 00:06:14,919

that yeah has some skeptical content to

133

00:06:19,080 --> 00:06:16,659

it has some comedic things you know I've

134

00:06:21,960 --> 00:06:19,090

come to be very comfortable with my role

135

00:06:24,330 --> 00:06:21,970

as the as the brain sorbet

136

00:06:26,580 --> 00:06:24,340

of the science communication community

137

00:06:28,890 --> 00:06:26,590

and I kind of provide a little bit of a

138

00:06:30,149 --> 00:06:28,900

comic relief here and there in between

139

00:06:30,839 --> 00:06:30,159

the people that actually know what

140

00:06:33,510 --> 00:06:30,849

they're talking about

141

00:06:36,210 --> 00:06:33,520

I usually just sort of slip in and can

142

00:06:38,100 --> 00:06:36,220

ask ask a good pointed question and then

143

00:06:40,140 --> 00:06:38,110

make some kind of reference to to

144

00:06:41,640 --> 00:06:40,150

buttocks or something and and then and

145

00:06:43,320 --> 00:06:41,650

then we go back to the real the real

146

00:06:45,149 --> 00:06:43,330

subject that's my that's my role and I'm

147

00:06:47,189 --> 00:06:45,159

completely happy with that oh look and

148

00:06:48,899 --> 00:06:47,199

what I love this one a lot better

149

00:06:50,790 --> 00:06:48,909

yourself and a local performing in

150

00:06:54,129 --> 00:06:50,800

Australia called Bob down who's a comic

151  
00:06:55,390 --> 00:06:54,139  
is that you can do something and

152  
00:06:57,879 --> 00:06:55,400  
if for some reason it doesn't quite work

153  
00:07:02,320 --> 00:06:57,889  
you can sing a song and everything is

154  
00:07:04,330 --> 00:07:02,330  
forgiven because you can do the song so

155  
00:07:05,589 --> 00:07:04,340  
well I mind you I have not seen any time

156  
00:07:07,390 --> 00:07:05,599  
where something you've done hasn't work

157  
00:07:09,339 --> 00:07:07,400  
and you've had to do that but it's like

158  
00:07:12,459 --> 00:07:09,349  
having two strings to your bow where

159  
00:07:14,469 --> 00:07:12,469  
like it's like if sceptical person came

160  
00:07:16,510 --> 00:07:14,479  
out and made a very important sceptical

161  
00:07:17,920 --> 00:07:16,520  
fact and it will some wasn't all and

162  
00:07:19,869 --> 00:07:17,930  
interesting your own tango yeah that's

163  
00:07:21,969 --> 00:07:19,879

nice but then if they did that and sang

164

00:07:23,050 --> 00:07:21,979

a song like you do that just knocks it

165

00:07:25,300 --> 00:07:23,060

out of the park it takes it to a

166

00:07:28,420 --> 00:07:25,310

different level I guess yeah I it was

167

00:07:31,240 --> 00:07:28,430

funny I was at QED last year two years

168

00:07:33,369 --> 00:07:31,250

ago whatever that was and I gave a talk

169

00:07:35,649 --> 00:07:33,379

and it completely bombed it complete

170

00:07:38,920 --> 00:07:35,659

totally flopped I had this idea to do

171

00:07:41,499 --> 00:07:38,930

kind of a high concept a purposely

172

00:07:43,869 --> 00:07:41,509

boring talk that I thought would be

173

00:07:46,089 --> 00:07:43,879

funny ha and it just didn't work it just

174

00:07:48,129 --> 00:07:46,099

it was the first talk of the conference

175

00:07:49,719 --> 00:07:48,139

it was just it didn't realize I was

176  
00:07:51,129 --> 00:07:49,729  
gonna be the first soccer I thought I'd

177  
00:07:52,989 --> 00:07:51,139  
be some work towards the end you know

178  
00:07:54,939 --> 00:07:52,999  
we're like to provide a alternate kind

179  
00:07:57,760 --> 00:07:54,949  
of thing I literally opened up the whole

180  
00:07:59,950 --> 00:07:57,770  
thing and it just tanked it just was

181  
00:08:02,860 --> 00:07:59,960  
awful like 40 40 minutes of flop sweat

182  
00:08:03,969 --> 00:08:02,870  
it was really bad well often when that

183  
00:08:05,740 --> 00:08:03,979  
has happened did you think you

184  
00:08:09,010 --> 00:08:05,750  
overthought it do you think that's what

185  
00:08:10,959 --> 00:08:09,020  
you did maybe I'm not sure I again I if

186  
00:08:12,459 --> 00:08:10,969  
I had known I would be the very first

187  
00:08:14,860 --> 00:08:12,469  
speaker for the conference I think I

188  
00:08:16,600 --> 00:08:14,870

would have reformulated my approach but

189

00:08:20,700 --> 00:08:16,610

it was kind of a funny idea I thought oh

190

00:08:22,869 --> 00:08:20,710

let me let me talk about supposed

191

00:08:24,519 --> 00:08:22,879

conspiracy theories that are real and I

192

00:08:26,290 --> 00:08:24,529

would make up very funny ones and be

193

00:08:30,369 --> 00:08:26,300

silly like the the leading the leading

194

00:08:32,980 --> 00:08:30,379

one was the idea that Richard Weissman

195

00:08:34,569 --> 00:08:32,990

isn't a real person mm-hmm and so I just

196

00:08:36,370 --> 00:08:34,579

did this whole I did like 20 minutes on

197

00:08:37,930 --> 00:08:36,380

how we know that Richard Wiseman is not

198

00:08:41,709 --> 00:08:37,940

a real person he's just this made-up

199

00:08:44,860 --> 00:08:41,719

thing and it just tanked it's just inked

200

00:08:47,949 --> 00:08:44,870

but people were expecting it to be

201  
00:08:49,750 --> 00:08:47,959  
serious or because they could fix oh you

202  
00:08:52,120 --> 00:08:49,760  
weren't giving visual cues it was funny

203  
00:08:53,560 --> 00:08:52,130  
what do you think was going on I I think

204  
00:08:55,030 --> 00:08:53,570  
it was a combination of things I think

205  
00:08:56,910 --> 00:08:55,040  
it was yet people word people didn't

206  
00:08:59,829 --> 00:08:56,920  
expect there to be kind of an alt

207  
00:09:02,079 --> 00:08:59,839  
comedic approach the high concept for

208  
00:09:05,259 --> 00:09:02,089  
the very first thing it probably wasn't

209  
00:09:07,449 --> 00:09:05,269  
as funny as I thought it was and I gotta

210  
00:09:07,700 --> 00:09:07,459  
say George that what you're doing sounds

211  
00:09:09,050 --> 00:09:07,710  
not

212  
00:09:10,580 --> 00:09:09,060  
far from something I've thought of doing

213  
00:09:11,900 --> 00:09:10,590

it as skeptics thing in mind the side

214

00:09:14,840 --> 00:09:11,910

rooms I've always wanted to have the

215

00:09:17,420 --> 00:09:14,850

thing like well you know that captain

216

00:09:19,190 --> 00:09:17,430

scarlet and and and spectrum they

217

00:09:21,170 --> 00:09:19,200

actually started the war with the mister

218

00:09:22,700 --> 00:09:21,180

ons the mister ons did not start the war

219

00:09:24,260 --> 00:09:22,710

with us they were at the planet they

220

00:09:27,290 --> 00:09:24,270

were something like that and doing

221

00:09:28,520 --> 00:09:27,300

things like that and I've enough and I

222

00:09:30,440 --> 00:09:28,530

haven't done it because I'm a cuz I

223

00:09:31,610 --> 00:09:30,450

don't think he geez it's gonna be stupid

224

00:09:33,710 --> 00:09:31,620

now and I'll know what's going on that

225

00:09:36,110 --> 00:09:33,720

kind of thing but yeah but as the first

226

00:09:37,970 --> 00:09:36,120

talk that is also something is expected

227

00:09:39,260 --> 00:09:37,980

don't do it first if you if you're if

228

00:09:41,530 --> 00:09:39,270

you're gonna do it some who don't do it

229

00:09:44,630 --> 00:09:41,540

first but the point being that evening I

230

00:09:46,430 --> 00:09:44,640

did I performed my Bradstreet score

231

00:09:49,370 --> 00:09:46,440

which is a string quartet version of

232

00:09:52,370 --> 00:09:49,380

song collection of mine and that killed

233

00:09:54,140 --> 00:09:52,380

it killed it was so great and it I was

234

00:09:56,750 --> 00:09:54,150

fortunate that I could feel like the

235

00:09:59,450 --> 00:09:56,760

trip was worth it that I hadn't just you

236

00:10:01,370 --> 00:09:59,460

know totally splattered that the the

237

00:10:04,730 --> 00:10:01,380

event with my with my forty minutes of

238

00:10:06,320 --> 00:10:04,740

non comedy that with an hour of music

239

00:10:07,550 --> 00:10:06,330

that was quite exactly the string

240

00:10:09,200 --> 00:10:07,560

players were just wonderful the

241

00:10:10,760 --> 00:10:09,210

arrangements were wonderful I didn't do

242

00:10:13,340 --> 00:10:10,770

the arrangements so I can say that and

243

00:10:17,210 --> 00:10:13,350

that rescued it so yes I do have the

244

00:10:19,880 --> 00:10:17,220

backup of the the performance to be to

245

00:10:21,710 --> 00:10:19,890

save sometimes the the trudge that might

246

00:10:23,750 --> 00:10:21,720

come out of my mouth otherwise look look

247

00:10:25,130 --> 00:10:23,760

at that is the only known time I think

248

00:10:27,440 --> 00:10:25,140

where any of your talks hasn't worked

249

00:10:28,910 --> 00:10:27,450

out isn't it I mean your talks usually

250

00:10:30,380 --> 00:10:28,920

go I always hear about them in fact I

251  
00:10:33,020 --> 00:10:30,390  
know I didn't hear about that one cuz it

252  
00:10:35,270 --> 00:10:33,030  
was hidden in England that's why that's

253  
00:10:37,670 --> 00:10:35,280  
right yes why I you know we had an

254  
00:10:38,960 --> 00:10:37,680  
agreement we as I left the country and

255  
00:10:40,490 --> 00:10:38,970  
they stamped my passport we had this

256  
00:10:44,120 --> 00:10:40,500  
agreement that no one would mention it

257  
00:10:46,160 --> 00:10:44,130  
ever again so and I remember when I was

258  
00:10:49,460 --> 00:10:46,170  
at Tam I think it was Tam Las Vegas rule

259  
00:10:51,200 --> 00:10:49,470  
20 got 12 something like that anyway and

260  
00:10:53,000 --> 00:10:51,210  
I was just wandering past the hallway

261  
00:10:55,160 --> 00:10:53,010  
and there you were giving a small

262  
00:10:56,780 --> 00:10:55,170  
concert to about 30 or 40 people just

263  
00:10:58,790 --> 00:10:56,790

jammed in and I said oh what's that

264

00:11:00,260 --> 00:10:58,800

that's just George he's playing I

265

00:11:01,790 --> 00:11:00,270

thought it was Dark Side of the Moon on

266

00:11:03,680 --> 00:11:01,800

the piano or something like that just

267

00:11:06,290 --> 00:11:03,690

like something okay yeah I was like sure

268

00:11:07,490 --> 00:11:06,300

I just I was gonna go back and have a

269

00:11:09,080 --> 00:11:07,500

look again but I just said that the

270

00:11:11,150 --> 00:11:09,090

person yeah sure is and not anything

271

00:11:12,950 --> 00:11:11,160

sure he is I don't believe you but of

272

00:11:14,390 --> 00:11:12,960

course he is I mean and he's probably

273

00:11:15,770 --> 00:11:14,400

having a couple of dogs come on and

274

00:11:17,480 --> 00:11:15,780

you'll be juggling on a unicycle with

275

00:11:19,370 --> 00:11:17,490

them later and that would also been

276

00:11:21,290 --> 00:11:19,380

acceptable with that yeah and it just

277

00:11:24,140 --> 00:11:21,300

everyone was looking it was really a lot

278

00:11:26,180 --> 00:11:24,150

of fun I mean you are you know if anyone

279

00:11:27,500 --> 00:11:26,190

else is hosting a sceptical event you

280

00:11:29,630 --> 00:11:27,510

know you're setting the bar high for

281

00:11:31,670 --> 00:11:29,640

them sometimes well I'd like to think

282

00:11:34,880 --> 00:11:31,680

that yes trying to trying to provide

283

00:11:36,500 --> 00:11:34,890

some some consistent good hosting

284

00:11:38,270 --> 00:11:36,510

capacity I don't know it's you know it's

285

00:11:40,160 --> 00:11:38,280

all fun it's all fun

286

00:11:41,090 --> 00:11:40,170

I know you do it ones well they look and

287

00:11:42,560 --> 00:11:41,100

also it's gonna said looking for she

288

00:11:45,230 --> 00:11:42,570

will also know George because of his

289

00:11:48,590 --> 00:11:45,240

albums two one eight one two trevor che

290

00:11:50,360 --> 00:11:48,600

a vitriol minutiae any songs when I was

291

00:11:51,620 --> 00:11:50,370

your age and I like I said his vocals

292

00:11:52,580 --> 00:11:51,630

didn't pick up the pieces you probably

293

00:11:53,690 --> 00:11:52,590

heard that as well

294

00:11:54,980 --> 00:11:53,700

you've said it heard him a couple of

295

00:11:58,070 --> 00:11:54,990

times on the skeptics guide to the

296

00:12:01,070 --> 00:11:58,080

universe and also as the as the caveman

297

00:12:02,600 --> 00:12:01,080

snake oil salesman is it in OGG The

298

00:12:05,420 --> 00:12:02,610

Skeptical cave members at the name of

299

00:12:07,670 --> 00:12:05,430

the Ark Ark Lascaux cave man yeah you're

300

00:12:09,500 --> 00:12:07,680

really good in that app George oh thank

301  
00:12:11,600 --> 00:12:09,510  
you that was fun because because that

302  
00:12:14,990 --> 00:12:11,610  
that looked like a whole day in a forest

303  
00:12:17,840 --> 00:12:15,000  
or more it was to film that one and your

304  
00:12:19,850 --> 00:12:17,850  
role was initially quite charming but

305  
00:12:21,770 --> 00:12:19,860  
then there's a twist and I quite like it

306  
00:12:24,050 --> 00:12:21,780  
that what was fun about that day that

307  
00:12:25,310 --> 00:12:24,060  
was with my friends obviously with the

308  
00:12:26,900 --> 00:12:25,320  
skeptics guide all the novellas and

309  
00:12:29,390 --> 00:12:26,910  
everybody I'm there so yeah they were in

310  
00:12:31,550 --> 00:12:29,400  
up in a park they had sort of taken this

311  
00:12:33,340 --> 00:12:31,560  
whole corner of a park they had built

312  
00:12:37,550 --> 00:12:33,350  
this entire set a whole little village

313  
00:12:40,850 --> 00:12:37,560

and that entire day I had a wig and no

314

00:12:43,490 --> 00:12:40,860

glasses on so no one knew who I was all

315

00:12:45,500 --> 00:12:43,500

day it was great and not until I started

316

00:12:48,230 --> 00:12:45,510

talking what people realize that it was

317

00:12:49,850 --> 00:12:48,240

me because of my voice so I would walk

318

00:12:51,230 --> 00:12:49,860

up and just sort of you know be parts of

319

00:12:53,210 --> 00:12:51,240

conversations and people you know the

320

00:12:55,430 --> 00:12:53,220

crew and stuff that was there who maybe

321

00:12:57,880 --> 00:12:55,440

knew me from before had no idea was me

322

00:13:01,310 --> 00:12:57,890

and it was it was so interesting and so

323

00:13:02,450 --> 00:13:01,320

freeing because I was walking into trees

324

00:13:03,530 --> 00:13:02,460

and stuff cuz it literally didn't have

325

00:13:04,490 --> 00:13:03,540

my glasses on me and the way the

326

00:13:06,350 --> 00:13:04,500

costumes were you didn't have any

327

00:13:08,240 --> 00:13:06,360

pockets so I left everything in the car

328

00:13:10,940 --> 00:13:08,250

and we had to walk up to this you know

329

00:13:13,760 --> 00:13:10,950

to this area in the forest where the set

330

00:13:16,370 --> 00:13:13,770

was built and to just be to just be

331

00:13:18,320 --> 00:13:16,380

really completely anonymous amongst

332

00:13:20,630 --> 00:13:18,330

friends and people that know you was

333

00:13:22,580 --> 00:13:20,640

really interesting like being the

334

00:13:24,500 --> 00:13:22,590

Invisible Man or something yeah kind of

335

00:13:26,900 --> 00:13:24,510

it also happened at at one of the Sai

336

00:13:29,150 --> 00:13:26,910

Khan's there was a costume party

337

00:13:31,760 --> 00:13:29,160

and at the time like I do now I have a

338

00:13:32,540 --> 00:13:31,770

beard and I wear glasses obviously and

339

00:13:34,850 --> 00:13:32,550

for that

340

00:13:37,430 --> 00:13:34,860

yes GU and I went as Gilligan's Island

341

00:13:40,430 --> 00:13:37,440

so I went as the professor so I shaved

342

00:13:42,830 --> 00:13:40,440

my beard and I had a wig and I walked

343

00:13:46,220 --> 00:13:42,840

into this party no glasses no beard and

344

00:13:49,180 --> 00:13:46,230

hair and nobody knew who I was

345

00:13:52,490 --> 00:13:49,190

I mean nobody there was there was like a

346

00:13:54,620 --> 00:13:52,500

audible conversation in the room of like

347

00:13:56,090 --> 00:13:54,630

who is that guy with the SU now keep in

348

00:13:58,190 --> 00:13:56,100

mind I had been onstage for three days

349

00:13:59,420 --> 00:13:58,200

now like introducing everybody wow I

350

00:14:01,190 --> 00:13:59,430

thought I gotta go rob a bank or

351

00:14:04,220 --> 00:14:01,200

something because no one knows who I am

352

00:14:06,920 --> 00:14:04,230

it was it was so curious that as soon as

353

00:14:08,870 --> 00:14:06,930

I have a wig the the way your brain

354

00:14:11,750 --> 00:14:08,880

works just pulls me in it like even

355

00:14:13,220 --> 00:14:11,760

seeing my face it pulls pulled me out of

356

00:14:14,780 --> 00:14:13,230

the category of who George could be

357

00:14:15,980 --> 00:14:14,790

because George is obviously not the guy

358

00:14:17,960 --> 00:14:15,990

without that you know with the beard

359

00:14:20,210 --> 00:14:17,970

without the hair and people just they

360

00:14:21,920 --> 00:14:20,220

had no idea it was awesome at

361

00:14:24,650 --> 00:14:21,930

richardsaunders said he gets a fairly

362

00:14:26,210 --> 00:14:24,660

interesting memory of YouTube because it

363

00:14:28,130 --> 00:14:26,220

seems like you would see each other

364

00:14:30,740 --> 00:14:28,140

regularly each year just backstage

365

00:14:32,630 --> 00:14:30,750

before Richard goes on here at 10:00 and

366

00:14:34,250 --> 00:14:32,640

never see each other during the year and

367

00:14:36,350 --> 00:14:34,260

then aha George that we were here you go

368

00:14:37,880 --> 00:14:36,360

oh yeah that's right - yeah and I've

369

00:14:39,650 --> 00:14:37,890

made a specialty I'm speaking to you

370

00:14:41,390 --> 00:14:39,660

after you've worked for 48 hours

371

00:14:42,410 --> 00:14:41,400

straight and then sit down and ask you

372

00:14:45,140 --> 00:14:42,420

questions that's always a great

373

00:14:47,120 --> 00:14:45,150

experience I love it I love it no it's

374

00:14:48,470 --> 00:14:47,130

very much like I've never been in the

375

00:14:50,660 --> 00:14:48,480

Armed Forces I've never been in combat

376

00:14:53,630 --> 00:14:50,670

but I'm sure that there is a certain

377

00:14:54,920 --> 00:14:53,640

focus to the to those weekends and then

378

00:14:56,920 --> 00:14:54,930

the relationships that you make are

379

00:14:59,450 --> 00:14:56,930

really quite wonderful and yeah they

380

00:15:00,830 --> 00:14:59,460

reestablish themselves very quickly when

381

00:15:03,290 --> 00:15:00,840

you're back in that situation again oh

382

00:15:04,730 --> 00:15:03,300

look at and I spoken to Jay once or

383

00:15:06,050 --> 00:15:04,740

twice in that situation as well he's

384

00:15:09,620 --> 00:15:06,060

getting good at the rapid-fire questions

385

00:15:10,970 --> 00:15:09,630

about Spandau Ballet oh good game yeah

386

00:15:12,830 --> 00:15:10,980

we're very proud of him he's come a long

387

00:15:14,270 --> 00:15:12,840

way he has come a long way and that's

388

00:15:17,330 --> 00:15:14,280

all and of course I'd like to recommend

389

00:15:19,400 --> 00:15:17,340

to people 13 13 songs which George Arab

390

00:15:21,650 --> 00:15:19,410

is a good one now in Australia here I

391

00:15:24,140 --> 00:15:21,660

think it's on in a morning but is it

392

00:15:26,600 --> 00:15:24,150

available to for replay that show yeah

393

00:15:28,280 --> 00:15:26,610

everything's on my youtube channel so

394

00:15:29,780 --> 00:15:28,290

you can go to my George crime YouTube

395

00:15:32,330 --> 00:15:29,790

channel and all that all the episodes of

396

00:15:34,760 --> 00:15:32,340

13 songs are there for rewatching at

397

00:15:36,440 --> 00:15:34,770

your convenience you know in the bath or

398

00:15:38,630 --> 00:15:36,450

whatever all those connections wasn't

399

00:15:39,260 --> 00:15:38,640

the recent one that's coming up that saw

400

00:15:41,000 --> 00:15:39,270

this there

401  
00:15:42,740 --> 00:15:41,010  
I want to be doing connections yeah so

402  
00:15:44,870 --> 00:15:42,750  
it's every song is gonna segue into the

403  
00:15:46,610 --> 00:15:44,880  
next with some kind of some kind of

404  
00:15:48,410 --> 00:15:46,620  
significant connection with twixt all

405  
00:15:51,170 --> 00:15:48,420  
the songs which is also the thing about

406  
00:15:52,820 --> 00:15:51,180  
your albums the last note of the

407  
00:15:54,320 --> 00:15:52,830  
previous album is usually the first note

408  
00:15:56,360 --> 00:15:54,330  
of the first song and the next album is

409  
00:15:58,750 --> 00:15:56,370  
that correct very good yeah absolutely

410  
00:16:00,650 --> 00:15:58,760  
very good not everyone realizes that

411  
00:16:02,750 --> 00:16:00,660  
skeptical things have had to move online

412  
00:16:04,850 --> 00:16:02,760  
as you were well known and you've been

413  
00:16:06,410 --> 00:16:04,860

in a few now do you think that's

414

00:16:07,550 --> 00:16:06,420

generally a good thing do you think

415

00:16:09,020 --> 00:16:07,560

there'll be people coming to these

416

00:16:10,810 --> 00:16:09,030

online ones that wouldn't that can't

417

00:16:12,650 --> 00:16:10,820

physically come and there could be a

418

00:16:14,510 --> 00:16:12,660

rejuvenation of people that wouldn't

419

00:16:16,760 --> 00:16:14,520

find themselves having any truck with

420

00:16:18,770 --> 00:16:16,770

the movement I think so I think I mean

421

00:16:21,350 --> 00:16:18,780

for example Nexus this year the the

422

00:16:22,430 --> 00:16:21,360

thing out of out of New York the North

423

00:16:23,660 --> 00:16:22,440

East Conference for science and

424

00:16:26,150 --> 00:16:23,670

skepticism is gonna be totally online

425

00:16:27,320 --> 00:16:26,160

which was a coincidental it kind of

426

00:16:28,790 --> 00:16:27,330

worked out that it was gonna be that way

427

00:16:31,070 --> 00:16:28,800

anyway and it sort of worked out really

428

00:16:33,050 --> 00:16:31,080

well I think it's gonna be astounding to

429

00:16:34,880 --> 00:16:33,060

be able to have international viewers

430

00:16:36,320 --> 00:16:34,890

you know from from Europe and from

431

00:16:38,720 --> 00:16:36,330

Australian from wherever all over the

432

00:16:40,820 --> 00:16:38,730

planet tuning in and and and getting a

433

00:16:42,080 --> 00:16:40,830

dose of some really well produced

434

00:16:43,460 --> 00:16:42,090

sceptical content

435

00:16:45,050 --> 00:16:43,470

I think it's nice I mean there's nothing

436

00:16:47,780 --> 00:16:45,060

like being in a room full of people and

437

00:16:52,490 --> 00:16:47,790

and having the fun experience of it but

438

00:16:54,410 --> 00:16:52,500

to be able to expand one's reach into

439

00:16:55,730 --> 00:16:54,420

the into the zoom world I think it's I

440

00:16:58,400 --> 00:16:55,740

think it's great I think it's really

441

00:17:00,290 --> 00:16:58,410

great and of course if some skeptical

442

00:17:02,440 --> 00:17:00,300

advice here before we get to the Shirley

443

00:17:06,560 --> 00:17:02,450

Bassey section of the show I'm just

444

00:17:07,699 --> 00:17:06,570

wondering um if if with this insane time

445

00:17:09,410 --> 00:17:07,709

of living in and particularly your

446

00:17:10,190 --> 00:17:09,420

country being a little bit more insane

447

00:17:13,460 --> 00:17:10,200

than everyone else

448

00:17:15,800 --> 00:17:13,470

or maybe just ahead of the curve I don't

449

00:17:17,720 --> 00:17:15,810

know what's the best way to get through

450

00:17:19,970 --> 00:17:17,730

this skeptically I mean you know coz

451

00:17:22,100 --> 00:17:19,980

applying logic to something in these

452

00:17:24,770 --> 00:17:22,110

situations doesn't work when someone is

453

00:17:26,210 --> 00:17:24,780

is is killing another person by choking

454

00:17:28,880 --> 00:17:26,220

off that windpipe for no apparent reason

455

00:17:31,490 --> 00:17:28,890

in a video that lacks context how can

456

00:17:32,900 --> 00:17:31,500

you get any logic out of anything yeah I

457

00:17:34,400 --> 00:17:32,910

think you just have to keep checking

458

00:17:36,340 --> 00:17:34,410

yourself you have to keep checking your

459

00:17:39,500 --> 00:17:36,350

own biases you have to keep checking

460

00:17:41,330 --> 00:17:39,510

it's hard it's hard to think differently

461

00:17:43,010 --> 00:17:41,340

about things sometimes and I think I

462

00:17:44,930 --> 00:17:43,020

think there's such a sea change that is

463

00:17:46,160 --> 00:17:44,940

that is potentially happening especially

464

00:17:48,260 --> 00:17:46,170

in this day well all over the world but

465

00:17:50,790 --> 00:17:48,270

especially in the States this idea of

466

00:17:53,280 --> 00:17:50,800

like totally restructuring some

467

00:17:55,620 --> 00:17:53,290

some major organizations that have been

468

00:17:57,300 --> 00:17:55,630

a certain way for for decades if not

469

00:17:58,230 --> 00:17:57,310

centuries you know like restructuring

470

00:18:01,230 --> 00:17:58,240

how police work

471

00:18:02,700 --> 00:18:01,240

restructuring how community communities

472

00:18:05,850 --> 00:18:02,710

can can police themselves and help

473

00:18:08,490 --> 00:18:05,860

themselves you have to check your your

474

00:18:11,460 --> 00:18:08,500

bias season your presumptions and it's

475

00:18:13,170 --> 00:18:11,470

that's that's the king the King sceptic

476

00:18:15,210 --> 00:18:13,180

thing to do is to constantly be asking

477

00:18:17,310 --> 00:18:15,220

yourself why do I think this is the

478

00:18:19,380 --> 00:18:17,320

right thing why do I believe this is is

479

00:18:22,110 --> 00:18:19,390

it the right thing and your your

480

00:18:23,610 --> 00:18:22,120

perception may very well be correct but

481

00:18:25,320 --> 00:18:23,620

you got to keep asking and I've caught

482

00:18:27,930 --> 00:18:25,330

myself a number of times of thinking

483

00:18:30,600 --> 00:18:27,940

like yeah I don't I need to think

484

00:18:32,520 --> 00:18:30,610

differently about about how how

485

00:18:34,620 --> 00:18:32,530

governments are approaching things and

486

00:18:37,050 --> 00:18:34,630

and and how I would approach things so

487

00:18:42,390 --> 00:18:37,060

that's just be vigilant in your self

488

00:18:44,340 --> 00:18:42,400

self doubt and your self perception and

489

00:18:47,610 --> 00:18:44,350

I guess not much else you can do try not

490

00:18:49,470 --> 00:18:47,620

to react too quickly a them absolutely

491

00:18:51,570 --> 00:18:49,480

yeah take a second you know I mean the

492

00:18:55,020 --> 00:18:51,580

idea of you see the thing you see the

493

00:18:57,390 --> 00:18:55,030

headline you read the piece of news yeah

494

00:18:59,010 --> 00:18:57,400

take take a second it's hard though it's

495

00:19:01,380 --> 00:18:59,020

hard it's really really hard and it's

496

00:19:04,170 --> 00:19:01,390

and when lives are at stake it's it's

497

00:19:06,900 --> 00:19:04,180

even harder so George could you give us

498

00:19:10,440 --> 00:19:06,910

just a small part of the Moonraker theme

499

00:19:12,420 --> 00:19:10,450

on the acoustic on my guitar this is how

500

00:19:15,570 --> 00:19:12,430

much of it do you want oh just just a

501

00:19:17,850 --> 00:19:15,580

just one verse or one course it's my

502

00:19:19,710 --> 00:19:17,860

first chorus maybe oh okay and that

503

00:19:22,140 --> 00:19:19,720

lyrically I don't think there's anything

504

00:19:24,630 --> 00:19:22,150

to point out is it it's not a Live and

505

00:19:27,480 --> 00:19:24,640

Let Die difficult chord manipulation is

506

00:19:29,580 --> 00:19:27,490

it it's not bad actually I was surprised

507

00:19:31,080 --> 00:19:29,590

that there's a some interesting it's a

508

00:19:32,880 --> 00:19:31,090

little bit of an interesting court thing

509

00:19:34,140 --> 00:19:32,890

happening and I'm gonna it's very early

510

00:19:36,400 --> 00:19:34,150

for me so I might have to do with the

511

00:19:51,490 --> 00:19:36,410

octave down and I apologize

512

00:20:04,970 --> 00:19:55,970

where is that moonlight trail that leads

513

00:20:14,330 --> 00:20:04,980

to your side just like the moon go in

514

00:20:20,870 --> 00:20:14,340

search of history I searched for for

515

00:20:21,910 --> 00:20:20,880

someone to have and hold I've seen your

516

00:20:29,180 --> 00:20:21,920

smile

517

00:20:29,190 --> 00:20:41,150

you are touch and it always seems

518

00:20:41,160 --> 00:20:47,520

[Music]

519

00:21:00,630 --> 00:20:50,880

George Arab George her app will return

520

00:21:10,880 --> 00:21:00,640

in the geologic podcast there you go yes

521

00:21:16,290 --> 00:21:15,540

Abdul No look thank you very much um is

522

00:21:18,360 --> 00:21:16,300

there anything you want to plug before

523

00:21:20,360 --> 00:21:18,370

you go to because with the you are

524

00:21:23,610 --> 00:21:20,370

nothing if not the skeptical plug up oh

525

00:21:25,410 --> 00:21:23,620

you sure the tune into 13 songs that

526

00:21:28,080 --> 00:21:25,420

happens every other week on a Thursday

527

00:21:30,420 --> 00:21:28,090

at 7 o'clock here in the Eastern time

528

00:21:32,250 --> 00:21:30,430

but go to my youtube channel and check

529

00:21:33,360 --> 00:21:32,260

out the geologic podcast occasionally if

530

00:21:34,920 --> 00:21:33,370

you're interested in that kind of thing

531

00:21:36,150 --> 00:21:34,930

as well and but just take care of

532

00:21:37,560 --> 00:21:36,160

yourselves that's the most important

533

00:21:39,510 --> 00:21:37,570

thing they can get some requests in a

534

00:21:41,310 --> 00:21:39,520

head took out that may be sure sure why

535

00:21:44,370 --> 00:21:41,320

not why not we had a we had a wonderful

536

00:21:46,350 --> 00:21:44,380

request / quiz show version where I

537

00:21:48,030 --> 00:21:46,360

asked I asked a trivia question whoever

538

00:21:49,410 --> 00:21:48,040

we got that right then got to pick the

539

00:21:50,640 --> 00:21:49,420

song that I would perform that was

540

00:21:52,980 --> 00:21:50,650

really fun we'll do that again at some

541

00:21:54,570 --> 00:21:52,990

point and I think I think Maynard for

542

00:21:57,870 --> 00:21:54,580

you I think I'm gonna do a James Bond

543

00:22:00,960 --> 00:21:57,880

call James Bond themes 13 songs I think

544

00:22:03,210 --> 00:22:00,970

I have to um well I mean see that's the

545

00:22:05,700 --> 00:22:03,220

easy of the Shirley Bassey there g-got

546

00:22:07,530 --> 00:22:05,710

Thunderball that's a toughy that's a

547

00:22:10,110 --> 00:22:07,540

toughy under ball a little finger

548

00:22:10,890 --> 00:22:10,120

obviously mmm because I was right dye is

549

00:22:13,560 --> 00:22:10,900

a good one

550

00:22:15,120 --> 00:22:13,570

oh yeah oh yeah look you need some

551  
00:22:16,320 --> 00:22:15,130  
dancers to come in during the middle bit

552  
00:22:17,700 --> 00:22:16,330  
and then just go out again or

553  
00:22:19,170 --> 00:22:17,710  
questionnaires coming for that kind of

554  
00:22:21,180 --> 00:22:19,180  
thing but Georgia I think we're doing a

555  
00:22:22,560 --> 00:22:21,190  
pool it's it's been lovely talking to

556  
00:22:24,890 --> 00:22:22,570  
you again I'm sorry I've been a bit

557  
00:22:27,930 --> 00:22:24,900  
tired I've spent eight hours editing a

558  
00:22:29,490 --> 00:22:27,940  
podcast with [ʌ\_\_\h] man on Tom Jones and

559  
00:22:31,050 --> 00:22:29,500  
it's almost finished in it's only 40

560  
00:22:32,820 --> 00:22:31,060  
minutes I I think I spent too much time

561  
00:22:35,910 --> 00:22:32,830  
editing I mean you know cuz it's easy

562  
00:22:37,710 --> 00:22:35,920  
enough to get it's not unusual George

563  
00:22:50,649 --> 00:22:37,720

around thank you very much

564

00:22:58,749 --> 00:22:56,799

I started listening to oh no Ross and

565

00:23:00,310 --> 00:22:58,759

Carrie shortly after I broke my arm and

566

00:23:01,119 --> 00:23:00,320

the doctor had told me I'd never walk

567

00:23:03,070 --> 00:23:01,129

again

568

00:23:05,710 --> 00:23:03,080

I couldn't get my book started it was

569

00:23:07,299 --> 00:23:05,720

just after my landlord died I was

570

00:23:09,879 --> 00:23:07,309

allergic to water

571

00:23:12,609 --> 00:23:09,889

addicted to wheatgrass I was lost

572

00:23:15,099 --> 00:23:12,619

honestly I knew it was time to make a

573

00:23:18,529 --> 00:23:15,109

change and that's when I turned on my

574

00:23:20,389 --> 00:23:18,539

preferred podcast again

575

00:23:23,209 --> 00:23:20,399

what if all the answers I was looking

576  
00:23:25,549 --> 00:23:23,219  
for what if they were all right here

577  
00:23:27,259 --> 00:23:25,559  
there's something about oh no Ross carry

578  
00:23:30,069 --> 00:23:27,269  
that you just can't get anywhere else

579  
00:23:32,599 --> 00:23:30,079  
they're thought leaders discoverers

580  
00:23:35,869 --> 00:23:32,609  
founders I'd call them heroes

581  
00:23:37,669 --> 00:23:35,879  
healers luminaries Ross and Carrie don't

582  
00:23:39,949 --> 00:23:37,679  
just report on for science spirituality

583  
00:23:42,079 --> 00:23:39,959  
and claims of the paranormal they take

584  
00:23:44,389 --> 00:23:42,089  
part themselves they show up so you

585  
00:23:49,310 --> 00:23:44,399  
don't have to but you might find that

586  
00:23:52,729 --> 00:23:49,320  
you want to my arm is better I can walk

587  
00:23:55,309 --> 00:23:52,739  
again six months no wheat grass I'm

588  
00:23:57,919 --> 00:23:55,319

growing an entire book this weekend it's

589

00:24:00,649 --> 00:23:57,929

terrible but I did it my landlord came

590

00:24:03,979 --> 00:24:00,659

back from the dead if I can listen to

591

00:24:10,159 --> 00:24:03,989

this podcast anyone can do it just go to

592

00:24:11,509 --> 00:24:10,169

maximum fun org on a Russ and carries

593

00:24:12,919 --> 00:24:11,519

just a podcast it doesn't do anything

594

00:24:15,030 --> 00:24:12,929

it's just sound you listen to your ears

595

00:24:33,870 --> 00:24:15,040

all these people are made-up goodbye

596

00:24:35,780 --> 00:24:33,880

[Music]

597

00:24:38,570 --> 00:24:35,790

logical fallacies

598

00:24:42,060 --> 00:24:38,580

[Music]

599

00:24:43,979 --> 00:24:42,070

what are logical fallacies and why is it

600

00:24:46,080 --> 00:24:43,989

important that critical thinkers should

601  
00:24:48,810 --> 00:24:46,090  
know about them

602  
00:24:51,840 --> 00:24:48,820  
a logical fallacy is an error we can

603  
00:24:54,090 --> 00:24:51,850  
make in reasoning but it usually crops

604  
00:24:57,840 --> 00:24:54,100  
up when we are discussing or arguing our

605  
00:25:00,269 --> 00:24:57,850  
point of view some people might even

606  
00:25:01,980 --> 00:25:00,279  
knowingly use them to try and score

607  
00:25:05,880 --> 00:25:01,990  
cheap points in an argument

608  
00:25:08,460 --> 00:25:05,890  
due to intellectual laziness they are

609  
00:25:10,680 --> 00:25:08,470  
traps we can fall into but if we know

610  
00:25:12,990 --> 00:25:10,690  
what to look out for we can spot them

611  
00:25:19,950 --> 00:25:13,000  
when they occur and stop ourselves from

612  
00:25:24,330 --> 00:25:19,960  
using them this time we'll look at non

613  
00:25:27,690 --> 00:25:24,340

sequitur the term non sequitur comes to

614

00:25:30,269 --> 00:25:27,700

us from Latin and translates as it does

615

00:25:33,060 --> 00:25:30,279

not follow it is a statement or

616

00:25:35,909 --> 00:25:33,070

conclusion that doesn't logically follow

617

00:25:38,460 --> 00:25:35,919

from the previous statement or the main

618

00:25:41,070 --> 00:25:38,470

point of the argument we might call this

619

00:25:44,460 --> 00:25:41,080

the what's that got to do with it

620

00:25:47,419 --> 00:25:44,470

fallacy many times people will not

621

00:25:51,060 --> 00:25:47,429

answer the question asked or tack on

622

00:25:53,669 --> 00:25:51,070

extra unnecessary information that

623

00:25:56,940 --> 00:25:53,679

detracts from the question at hand

624

00:25:59,909 --> 00:25:56,950

that awful skeptic question my psychic

625

00:26:03,029 --> 00:25:59,919

intuition and mediumship but what would

626

00:26:05,630 --> 00:26:03,039

he know and anyway I had a traumatic

627

00:26:08,399 --> 00:26:05,640

childhood and have suffered all my life

628

00:26:10,980 --> 00:26:08,409

this example is based on a real

629

00:26:13,380 --> 00:26:10,990

complaint made by someone claiming to

630

00:26:17,250 --> 00:26:13,390

have psychic powers when questioned by a

631

00:26:19,740 --> 00:26:17,260

skeptical investigator while we can

632

00:26:22,680 --> 00:26:19,750

sympathize with aspects of the psychics

633

00:26:25,260 --> 00:26:22,690

life their troubles really have no

634

00:26:29,460 --> 00:26:25,270

bearing on whether or not they have

635

00:26:32,340 --> 00:26:29,470

mystical powers it can however have the

636

00:26:35,970 --> 00:26:32,350

effect of deflecting the valid inquiries

637

00:26:38,639 --> 00:26:35,980

or criticisms of the skeptic it's all

638

00:26:42,659 --> 00:26:38,649

too easy to paint a skeptic as being

639

00:26:46,200 --> 00:26:42,669

negative or uncaring the history of

640

00:26:47,909 --> 00:26:46,210

mainstream medicine is littered with bad

641

00:26:51,210 --> 00:26:47,919

reactions and side-effects

642

00:26:54,779 --> 00:26:51,220

that's why alternative medicine works so

643

00:26:57,840 --> 00:26:54,789

much better there's an old saying if a

644

00:26:59,220 --> 00:26:57,850

medicine doesn't have side effects it

645

00:27:02,879 --> 00:26:59,230

doesn't have effect

646

00:27:06,840 --> 00:27:02,889

to begin with however in the case of

647

00:27:10,710 --> 00:27:06,850

homeopathy for example it's clear why it

648

00:27:12,899 --> 00:27:10,720

claims to have no side-effects as there

649

00:27:16,190 --> 00:27:12,909

is nothing in it to cause effects in the

650

00:27:18,690 --> 00:27:16,200

first place whether or not a particular

651  
00:27:22,230 --> 00:27:18,700  
pharmaceutical drug has reactions or

652  
00:27:25,139 --> 00:27:22,240  
side effects has nothing to do with the

653  
00:27:28,919 --> 00:27:25,149  
efficacy of something calling itself

654  
00:27:32,909 --> 00:27:28,929  
alternative medicine it's unrelated and

655  
00:27:35,879 --> 00:27:32,919  
it just doesn't follow science tells us

656  
00:27:40,379 --> 00:27:35,889  
that energy can neither be created nor

657  
00:27:43,529 --> 00:27:40,389  
destroyed but it can be transformed this

658  
00:27:47,610 --> 00:27:43,539  
surely shows that spiritual energy is

659  
00:27:49,919 --> 00:27:47,620  
real and Reiki healing is possible in a

660  
00:27:53,269 --> 00:27:49,929  
skeptical world there is something

661  
00:27:56,690 --> 00:27:53,279  
called hymens categorical imperative

662  
00:28:01,529 --> 00:27:56,700  
named after sceptical investigator

663  
00:28:04,320 --> 00:28:01,539

professor Ray Hyman which says do not

664

00:28:06,480 --> 00:28:04,330

try to explain something until you are

665

00:28:10,590 --> 00:28:06,490

sure there is something to be explained

666

00:28:13,799 --> 00:28:10,600

in this case we have no reason to think

667

00:28:17,240 --> 00:28:13,809

that spiritual energy or Reiki the

668

00:28:20,159 --> 00:28:17,250

claimed mystical energy even exists

669

00:28:22,860 --> 00:28:20,169

despite many people believing in them

670

00:28:25,320 --> 00:28:22,870

talking about the nature of energy as

671

00:28:29,340 --> 00:28:25,330

discovered and described by science and

672

00:28:31,639 --> 00:28:29,350

then linking it to unproven claims it's

673

00:28:34,440 --> 00:28:31,649

like an old smoke and mirrors trick

674

00:28:39,629 --> 00:28:34,450

causing you to be distracted from the

675

00:28:42,990 --> 00:28:39,639

real point it's easy to see how people

676

00:28:44,970 --> 00:28:43,000

might use a non sequitur if they truly

677

00:28:49,620 --> 00:28:44,980

believe in something like mystical

678

00:28:53,820 --> 00:28:49,630

energies to them the link to real energy

679

00:28:57,509 --> 00:28:53,830

is not a non sequitur at all and they

680

00:28:59,090 --> 00:28:57,519

cannot see why it would not follow nor

681

00:29:01,879 --> 00:28:59,100

be related

682

00:29:05,649 --> 00:29:01,889

this commonly occurs when this fallacy

683

00:29:11,810 --> 00:29:05,659

is used and you might have quite a task

684

00:29:14,180 --> 00:29:11,820

explaining this to your opponent knowing

685

00:29:17,360 --> 00:29:14,190

a logical fallacy when you hear one and

686

00:29:21,200 --> 00:29:17,370

even knowing its name is important when

687

00:29:24,019 --> 00:29:21,210

arguing your point of view however you

688

00:29:26,720 --> 00:29:24,029

may come across as arrogant and not get

689

00:29:28,759 --> 00:29:26,730

very far if you call it out by name to

690

00:29:33,080 --> 00:29:28,769

your opponent when you hear it being

691

00:29:35,600 --> 00:29:33,090

used if your opponent calls you out for

692

00:29:39,860 --> 00:29:35,610

using one it's time to stop and think

693

00:29:41,409 --> 00:29:39,870

about how you are making your case use

694

00:29:45,169 --> 00:29:41,419

your knowledge of logical fallacies

695

00:29:47,810 --> 00:29:45,179

wisely and remember that even if your

696

00:29:50,659 --> 00:29:47,820

point of view is right and you know all

697

00:29:52,999 --> 00:29:50,669

the pitfalls in arguing your case it

698

00:29:56,779 --> 00:29:53,009

doesn't always mean you'll win on the

699

00:30:02,930 --> 00:29:56,789

day and a skeptics we must also remember

700

00:30:05,480 --> 00:30:02,940

that we too can be wrong at times I'm

701  
00:30:15,350 --> 00:30:05,490  
sure because my from the Vic skeptics

702  
00:30:15,360 --> 00:30:18,610  
[Music]

703  
00:30:28,570 --> 00:30:24,620  
- madam Zola fattoush Australia's most

704  
00:30:34,510 --> 00:30:28,580  
accurate psychic clairvoyant

705  
00:30:38,490 --> 00:30:34,520  
clairaudient soul coach medium animal

706  
00:30:51,000 --> 00:30:44,830  
empath and medical intuitive dear madam

707  
00:30:56,200 --> 00:30:51,010  
latouche I am writing to you to express

708  
00:31:00,580 --> 00:30:56,210  
my amazement at the accuracy of the past

709  
00:31:05,500 --> 00:31:00,590  
life counseling and alien contact

710  
00:31:10,180 --> 00:31:05,510  
reading you gave me via telephone on

711  
00:31:15,360 --> 00:31:10,190  
Thursday last it was a relief for me to

712  
00:31:20,500 --> 00:31:15,370  
discover that not only am i the

713  
00:31:25,649 --> 00:31:20,510

reincarnation of Julius Caesar Albert

714

00:31:29,560 --> 00:31:25,659

Einstein and President James cave pulk

715

00:31:36,279 --> 00:31:29,570

but also kata juta

716

00:31:43,360 --> 00:31:36,289

watt of Planet Bob Gleaner six and then

717

00:31:48,430 --> 00:31:43,370

that dirt pump of dimension 86 my pet

718

00:31:52,750 --> 00:31:48,440

parrot Susan was also astonished to find

719

00:31:58,000 --> 00:31:52,760

out about her past life as a mammoth

720

00:32:03,090 --> 00:31:58,010

from the bias in epic and a velvet slime

721

00:32:07,930 --> 00:32:03,100

worm although you couldn't tell from

722

00:32:14,169 --> 00:32:07,940

exactly where and when as you said slime

723

00:32:19,279 --> 00:32:14,179

worms tend not to communicate so much

724

00:32:23,139 --> 00:32:19,289

please find enclosed my check for \$19

725

00:32:31,180 --> 00:32:23,149

and 65 cents and book us in for another

726

00:32:32,509 --> 00:32:31,190

phone session on 24th of next month

727

00:32:42,019 --> 00:32:32,519

yours

728

00:32:46,370 --> 00:32:42,029

the etc etc PS when you told me at one

729

00:32:51,169 --> 00:32:46,380

point that quote there's one born every

730

00:33:00,920 --> 00:32:51,179

minute and quote which one of my past

731

00:33:19,330 --> 00:33:17,289

[Music]

732

00:33:23,560 --> 00:33:19,340

and now we look at the Australian

733

00:33:26,320 --> 00:33:23,570

skeptics newsletter 100 and if you're a

734

00:33:28,419 --> 00:33:26,330

subscriber like me to the skeptics the

735

00:33:32,190 --> 00:33:28,429

Australian skeptics newsletter you would

736

00:33:35,919 --> 00:33:32,200

have received this update on the 16th of

737

00:33:38,859 --> 00:33:35,929

June and the newsletter says in part

738

00:33:40,810 --> 00:33:38,869

we've reached newsletter 100 man we're

739

00:33:43,210 --> 00:33:40,820

happy to say that our reader numbers are

740

00:33:45,639 --> 00:33:43,220

increasing every issue but we're

741

00:33:48,340 --> 00:33:45,649

naturally keen to spread the sceptical

742

00:33:50,739 --> 00:33:48,350

word even further so if you know someone

743

00:33:54,249 --> 00:33:50,749

you think might be interested in reading

744

00:33:57,369 --> 00:33:54,259

the newsletter please forward this issue

745

00:33:59,320 --> 00:33:57,379

to them and then they can sign up using

746

00:34:01,149 --> 00:33:59,330

the link at the end well to get the

747

00:34:03,220 --> 00:34:01,159

issue in the first place without this of

748

00:34:05,950 --> 00:34:03,230

course you go to skeptics comdataís you

749

00:34:08,409 --> 00:34:05,960

and sign up from there some of the news

750

00:34:11,049 --> 00:34:08,419

items covered in this issue skeptic on

751  
00:34:13,780 --> 00:34:11,059  
goes online update an event for everyone

752  
00:34:17,020 --> 00:34:13,790  
everywhere there's mentioned last issue

753  
00:34:19,480 --> 00:34:17,030  
the organizers of skeptic on 2020 have

754  
00:34:22,659 --> 00:34:19,490  
decided that the event this year will be

755  
00:34:25,869 --> 00:34:22,669  
a first for Australian skeptics a purely

756  
00:34:28,659 --> 00:34:25,879  
online convention speakers plan to take

757  
00:34:30,609 --> 00:34:28,669  
part include Mike hall dr. Alice Howarth

758  
00:34:33,039 --> 00:34:30,619  
and Michael Marshall from the skeptics

759  
00:34:35,399 --> 00:34:33,049  
with a Kay podcast and science

760  
00:34:38,020 --> 00:34:35,409  
communicator dr. Karl Cruz on Liske the

761  
00:34:41,079 --> 00:34:38,030  
event is being hosted by the Gold Coast

762  
00:34:43,629 --> 00:34:41,089  
skeptics and full technical details and

763  
00:34:47,039 --> 00:34:43,639

ticket prices which are expected to be

764

00:34:49,869 --> 00:34:47,049

highly affordable will be announced soon

765

00:34:52,839 --> 00:34:49,879

remember to keep those dates aside

766

00:34:56,139 --> 00:34:52,849

that's October the 24th to the 25th this

767

00:34:59,170 --> 00:34:56,149

year the next item says federal court

768

00:35:02,530 --> 00:34:59,180

restrains Bleach promoting

769

00:35:04,770 --> 00:35:02,540

Church the federal court has made orders

770

00:35:07,839 --> 00:35:04,780

restraining Southern Cross directories

771

00:35:10,630 --> 00:35:07,849

proprietary limited trading as MMS

772

00:35:13,030 --> 00:35:10,640

Australia and its director charles

773

00:35:16,420 --> 00:35:13,040

barton from advertising and supplying

774

00:35:19,329 --> 00:35:16,430

goods containing certain potentially

775

00:35:22,059 --> 00:35:19,339

dangerous substances including sodium

776

00:35:26,410 --> 00:35:22,069

chloride the main chemical used to make

777

00:35:28,470 --> 00:35:26,420

miracle mineral solution mms until a

778

00:35:31,620 --> 00:35:28,480

further hearing

779

00:35:34,500 --> 00:35:31,630

this follows the TGA issuing 12

780

00:35:37,819 --> 00:35:34,510

infringement notices totaling a hundred

781

00:35:40,740 --> 00:35:37,829

and fifty \$1200 for alleged unlawful

782

00:35:44,190 --> 00:35:40,750

advertising of miracle mineral

783

00:35:46,890 --> 00:35:44,200

supplement it goes on to say that MMS

784

00:35:49,650 --> 00:35:46,900

Australia is a chapter of the Genesis to

785

00:35:52,220 --> 00:35:49,660

church of Health and healing which has

786

00:35:55,370 --> 00:35:52,230

been promoting the product for some time

787

00:36:00,089 --> 00:35:55,380

stating it can cure things like autism

788

00:36:03,660 --> 00:36:00,099

acne cancer diabetes and now covered 19

789

00:36:06,480 --> 00:36:03,670

it has promoted it as a water purifier

790

00:36:10,890 --> 00:36:06,490

the next item says vaccination rates

791

00:36:13,829 --> 00:36:10,900

fall in face of anti vaccines The Sydney

792

00:36:17,609 --> 00:36:13,839

Morning Herald reports a quote massive

793

00:36:20,220 --> 00:36:17,619

uptick and quote in media reporting of

794

00:36:23,099 --> 00:36:20,230

anti vaccination activity in Australia

795

00:36:25,890 --> 00:36:23,109

has coincided with the fall in routine

796

00:36:30,359 --> 00:36:25,900

vaccination rates and that is worrying

797

00:36:33,480 --> 00:36:30,369

news also we read here china plan to

798

00:36:34,170 --> 00:36:33,490

punish skeptics of traditional Chinese

799

00:36:36,870 --> 00:36:34,180

medicine

800

00:36:38,730 --> 00:36:36,880

health authorities in Beijing unveil a

801  
00:36:42,540 --> 00:36:38,740  
set of proposed regulations on

802  
00:36:45,420 --> 00:36:42,550  
traditional Chinese medicine TCM for

803  
00:36:47,550 --> 00:36:45,430  
public consultation but one specific

804  
00:36:51,800 --> 00:36:47,560  
article has drawn the ire of legal

805  
00:36:55,200 --> 00:36:51,810  
experts and people skeptical of TCM

806  
00:36:58,319 --> 00:36:55,210  
practices article 54 stipulates that

807  
00:37:01,260 --> 00:36:58,329  
those who quote defame and slander and

808  
00:37:03,930 --> 00:37:01,270  
quote TCM are subject to punishment by

809  
00:37:06,180 --> 00:37:03,940  
public security departments or even face

810  
00:37:08,880 --> 00:37:06,190  
criminal responsibility for quote

811  
00:37:11,400 --> 00:37:08,890  
picking corals causing trouble and

812  
00:37:13,710 --> 00:37:11,410  
disturbing public order in quote a

813  
00:37:15,900 --> 00:37:13,720

vaguely defined crime often used by

814

00:37:18,450 --> 00:37:15,910

Chinese Laurin forces to police online

815

00:37:20,400 --> 00:37:18,460

speech now there's a lot more to read in

816

00:37:23,309 --> 00:37:20,410

this issue of the Australian skeptics

817

00:37:26,250 --> 00:37:23,319

newsletter newsletter 100 with lots of

818

00:37:27,390 --> 00:37:26,260

links and well what's this right at the

819

00:37:29,489 --> 00:37:27,400

end

820

00:37:33,239 --> 00:37:29,499

there's a sort of a like a PS it says

821

00:37:35,130 --> 00:37:33,249

fYI skeptics fax number as of next month

822

00:37:37,829 --> 00:37:35,140

we'll be dropping our fax number too too

823

00:37:39,960 --> 00:37:37,839

high costs compared with low usage we

824

00:37:42,749 --> 00:37:39,970

will still be available to fire email

825

00:37:43,440 --> 00:37:42,759

phone and snail mail fax number good

826  
00:37:46,410 --> 00:37:43,450  
heavens

827  
00:37:47,640 --> 00:37:46,420  
now it also the June 2020 issue of the

828  
00:37:49,739 --> 00:37:47,650  
skeptic will be out soon

829  
00:37:51,720 --> 00:37:49,749  
digital copies this week with the

830  
00:37:53,960 --> 00:37:51,730  
feature on chiropractic crazy claims

831  
00:37:57,329 --> 00:37:53,970  
dodgy claims the complexities of

832  
00:37:59,999 --> 00:37:57,339  
subluxation complex say that quickly and

833  
00:38:01,769 --> 00:38:00,009  
general pseudoscience underpinnings not

834  
00:38:04,200 --> 00:38:01,779  
to mention how to make wine taste better

835  
00:38:06,150 --> 00:38:04,210  
under strict scientific conditions the

836  
00:38:08,339 --> 00:38:06,160  
insiders story on the Carlos hoax

837  
00:38:10,980 --> 00:38:08,349  
psychics and mystics in Australian

838  
00:38:13,559 --> 00:38:10,990

history and much more so once again to

839

00:38:17,279 --> 00:38:13,569

sign up for the regular newsletter just

840

00:38:19,660 --> 00:38:17,289

hint for skeptics calm not a you and

841

00:38:31,250 --> 00:38:19,670

look for the sign up link

842

00:38:38,480 --> 00:38:35,960

I sure do miss going to those skeptical

843

00:38:40,700 --> 00:38:38,490

meetings and pubs and cafes to hear

844

00:38:47,720 --> 00:38:40,710

talks and interact with my friends you

845

00:38:49,720 --> 00:38:47,730

know well I think I could help you with

846

00:38:52,130 --> 00:38:49,730

that

847

00:38:55,400 --> 00:38:52,140

who the hell are you

848

00:38:58,280 --> 00:38:55,410

I'm your skeptical fairy godmother angel

849

00:39:01,490 --> 00:38:58,290

from the internet you're my skeptical go

850

00:39:02,570 --> 00:39:01,500

to whoa relax Richard I can make your

851  
00:39:09,920 --> 00:39:02,580  
wish come true

852  
00:39:15,350 --> 00:39:09,930  
what you mean free beer no no no the

853  
00:39:18,830 --> 00:39:15,360  
other way oh really yes I have news of

854  
00:39:23,330 --> 00:39:18,840  
skeptical meetings and talks online oh

855  
00:39:26,030 --> 00:39:23,340  
oh oh yes of course yes skeptics cafe

856  
00:39:28,790 --> 00:39:26,040  
online by the Vic skeptics brings you

857  
00:39:29,530 --> 00:39:28,800  
live and interactive skeptical talks via

858  
00:39:32,960 --> 00:39:29,540  
soon

859  
00:39:35,120 --> 00:39:32,970  
anyone anywhere in the world is welcome

860  
00:39:37,760 --> 00:39:35,130  
to join in on the third Monday of the

861  
00:39:39,920 --> 00:39:37,770  
month just check out the skeptics cafe

862  
00:39:43,750 --> 00:39:39,930  
page on Facebook to see when the next

863  
00:39:46,610 --> 00:39:43,760

talk is and who will be presenting

864

00:39:49,150 --> 00:39:46,620

alternatively see the big skeptics

865

00:39:51,710 --> 00:39:49,160

website at fix skeptics dot

866

00:39:55,660 --> 00:39:51,720

wordpress.com for details

867

00:39:59,630 --> 00:39:55,670

that sounds great a skeptical God very

868

00:40:02,750 --> 00:39:59,640

angel mother and person and there are

869

00:40:05,180 --> 00:40:02,760

similar skeptical online talks happening

870

00:40:07,970 --> 00:40:05,190

around the country and all over the

871

00:40:10,130 --> 00:40:07,980

world all you need to do is search for

872

00:40:14,390 --> 00:40:10,140

them Wow

873

00:40:20,260 --> 00:40:14,400

now just one more question yes what

874

00:40:25,430 --> 00:40:20,270

about the beer okay all right

875

00:40:28,970 --> 00:40:25,440

well just for you I'll make it so you

876

00:40:31,640 --> 00:40:28,980

can go to the supermarket buy what ever

877

00:40:33,860 --> 00:40:31,650

beer you like and drink it while

878

00:40:37,310 --> 00:40:33,870

watching the talk online at home and

879

00:40:38,910 --> 00:40:37,320

they say miracles never happen and to

880

00:40:41,760 --> 00:40:38,920

think I gave up

881

00:40:43,049 --> 00:40:41,770

being the Tooth Fairy for this what

882

00:40:53,310 --> 00:40:43,059

nothing

883

00:41:00,120 --> 00:40:54,710

[Music]

884

00:41:02,120 --> 00:41:00,130

and now a reading from the book of Tim

885

00:41:12,780 --> 00:41:02,130

[Music]

886

00:41:14,460 --> 00:41:12,790

with Tim Mendham hi my name's Tim Minton

887

00:41:16,710 --> 00:41:14,470

I'm the editor of Australian skeptics

888

00:41:19,620 --> 00:41:16,720

Journal the skeptic and executive

889

00:41:21,450 --> 00:41:19,630

officer of Australian skeptics Inc today

890

00:41:24,540 --> 00:41:21,460

I'll be continuing our story on

891

00:41:26,970 --> 00:41:24,550

chiropractic this is an article first

892

00:41:31,230 --> 00:41:26,980

published the skeptic magazine in 1995

893

00:41:34,319 --> 00:41:31,240

and reprinted in a June 2020 issue which

894

00:41:36,000 --> 00:41:34,329

has a major feature on chiropractic in

895

00:41:37,050 --> 00:41:36,010

this story we continue the article by

896

00:41:40,290 --> 00:41:37,060

Stephen Vassar

897

00:41:43,260 --> 00:41:40,300

retired GP and former vice president of

898

00:41:45,180 --> 00:41:43,270

the Victorian skeptics this article was

899

00:41:48,059 --> 00:41:45,190

first presented as a presentation that

900

00:41:51,870 --> 00:41:48,069

escaped his convention and we reprinted

901  
00:41:55,099 --> 00:41:51,880  
now even though was 25 years old because

902  
00:41:57,180 --> 00:41:55,109  
nothing much has changed in chiropractic

903  
00:42:00,780 --> 00:41:57,190  
last time we looked at the history of

904  
00:42:03,390 --> 00:42:00,790  
chiropractic and David Palmer and his

905  
00:42:05,730 --> 00:42:03,400  
son BJ and where they were taking the

906  
00:42:07,890 --> 00:42:05,740  
organization to try and make it seem a

907  
00:42:10,829 --> 00:42:07,900  
bit more scientific but to differentiate

908  
00:42:12,980 --> 00:42:10,839  
it from established science-based

909  
00:42:16,589 --> 00:42:12,990  
medicine

910  
00:42:19,770 --> 00:42:16,599  
it was rising again in the 70s but not

911  
00:42:24,359 --> 00:42:19,780  
all was good as we were heading down the

912  
00:42:27,240 --> 00:42:24,369  
way of the chiropractic Wars intended

913  
00:42:28,819 --> 00:42:27,250

the article from there the dramatic

914

00:42:31,140 --> 00:42:28,829

improvements in chiropractic education

915

00:42:33,240 --> 00:42:31,150

lowered the barriers between it and

916

00:42:36,150 --> 00:42:33,250

Orthodox science conferring greater

917

00:42:38,819 --> 00:42:36,160

academic credibility the result was and

918

00:42:40,529 --> 00:42:38,829

is an increasingly bitter debate over

919

00:42:41,809 --> 00:42:40,539

the content and character of

920

00:42:43,710 --> 00:42:41,819

chiropractic

921

00:42:46,289 --> 00:42:43,720

principally the debate is about whether

922

00:42:49,349 --> 00:42:46,299

chiropractors are limited practitioners

923

00:42:51,720 --> 00:42:49,359

like dentists or podiatrists primary

924

00:42:53,700 --> 00:42:51,730

care practitioners who incorporate some

925

00:42:55,829 --> 00:42:53,710

of Medicine's tools and knowledge or

926  
00:42:59,339 --> 00:42:55,839  
primary care practitioners who reject

927  
00:43:01,680 --> 00:42:59,349  
orthodox medicine those who cling to the

928  
00:43:03,450 --> 00:43:01,690  
original concepts of Parma believe that

929  
00:43:06,210 --> 00:43:03,460  
to accept the assumptions of Orthodox

930  
00:43:09,359 --> 00:43:06,220  
science is to destroy crucial elements

931  
00:43:11,789 --> 00:43:09,369  
of chiropractics identity while those

932  
00:43:13,440 --> 00:43:11,799  
who see chiropractors as valid limited

933  
00:43:15,779 --> 00:43:13,450  
practitioners believe that accepting

934  
00:43:18,870 --> 00:43:15,789  
Orthodox science will help establish the

935  
00:43:22,109 --> 00:43:18,880  
efficacy of chiropractic and confer upon

936  
00:43:24,420 --> 00:43:22,119  
it legitimacy the following a brief

937  
00:43:27,960 --> 00:43:24,430  
examples of writings from the opposing

938  
00:43:29,370 --> 00:43:27,970

sides of this debate Stephen says that

939

00:43:31,980 --> 00:43:29,380

he has been selectively due to the

940

00:43:33,779 --> 00:43:31,990

limited space available but he believes

941

00:43:35,190 --> 00:43:33,789

these quotes accurately reflect the

942

00:43:37,529 --> 00:43:35,200

nature of the difference in approach

943

00:43:39,089 --> 00:43:37,539

between the two sides all of these

944

00:43:43,109 --> 00:43:39,099

quotes are from chiropractic journals

945

00:43:44,490 --> 00:43:43,119

let's begin Robert D moots 1990 the

946

00:43:46,950 --> 00:43:44,500

chiropractic profession as a whole

947

00:43:49,289 --> 00:43:46,960

spends more on competing with each other

948

00:43:51,900 --> 00:43:49,299

in the yellow pages than it does in

949

00:43:54,510 --> 00:43:51,910

supporting research Larry Webster in

950

00:43:57,059 --> 00:43:54,520

1994 chiropractic would not exist today

951  
00:44:00,990 --> 00:43:57,069  
had BJ Palmer waited for scientific

952  
00:44:03,029 --> 00:44:01,000  
validation Jennifer Jameson 1991 the

953  
00:44:05,940 --> 00:44:03,039  
case for a preventative chiropractic is

954  
00:44:08,250 --> 00:44:05,950  
based upon a priori reasoning although

955  
00:44:11,039 --> 00:44:08,260  
such reasoning may be logical ie

956  
00:44:15,029 --> 00:44:11,049  
internally consistent it bears no proven

957  
00:44:17,579 --> 00:44:15,039  
relationship to reality John Hardin 1992

958  
00:44:20,039 --> 00:44:17,589  
it has been found for example that by

959  
00:44:22,109 --> 00:44:20,049  
blocking the nervous system measles can

960  
00:44:25,500 --> 00:44:22,119  
be prevented oh dear

961  
00:44:26,050 --> 00:44:25,510  
hey Christiansen 1987 some members of

962  
00:44:27,910 --> 00:44:26,060  
our prefer

963  
00:44:30,370 --> 00:44:27,920

would like us to believe that medicine

964

00:44:32,620 --> 00:44:30,380

is our greatest enemy I think it is

965

00:44:34,810 --> 00:44:32,630

becoming obvious that arrogant ignorance

966

00:44:35,970 --> 00:44:34,820

within our own profession is really what

967

00:44:40,060 --> 00:44:35,980

is holding us back

968

00:44:42,790 --> 00:44:40,070

peter lind 1992 it has been studied that

969

00:44:44,590 --> 00:44:42,800

both healers hands and magnets could

970

00:44:49,530 --> 00:44:44,600

accelerate the kinetic activity of

971

00:44:51,820 --> 00:44:49,540

enzymes in a subject Josef Keating 1993

972

00:44:54,730 --> 00:44:51,830

patient satisfaction is a worthy

973

00:44:56,470 --> 00:44:54,740

clinical goal in and of itself so long

974

00:44:59,680 --> 00:44:56,480

as it is not mistaken for experimentally

975

00:45:01,480 --> 00:44:59,690

demonstrated effectiveness astrologers

976  
00:45:03,970 --> 00:45:01,490  
have been satisfying their customers for

977  
00:45:06,250 --> 00:45:03,980  
millennia but this hardly supports any

978  
00:45:09,190 --> 00:45:06,260  
scientific claims about the accuracy of

979  
00:45:13,350 --> 00:45:09,200  
their predictions nor the wisdom of

980  
00:45:15,520 --> 00:45:13,360  
their advice and John Hartigan 1992

981  
00:45:17,140 --> 00:45:15,530  
chiropractic is good for anyone and

982  
00:45:19,750 --> 00:45:17,150  
everyone who has a scientifically

983  
00:45:22,060 --> 00:45:19,760  
demonstrable subluxation regardless of

984  
00:45:23,950 --> 00:45:22,070  
medical diagnosis or lack thereof

985  
00:45:25,540 --> 00:45:23,960  
now these quotes are often the period

986  
00:45:27,520 --> 00:45:25,550  
with Steven Besser wrote the article

987  
00:45:29,760 --> 00:45:27,530  
originally but of course those Wars

988  
00:45:31,870 --> 00:45:29,770

continue right up until a recent

989

00:45:35,140 --> 00:45:31,880

chiropractic convention last year in

990

00:45:36,760 --> 00:45:35,150

Berlin in which it got so outrageous

991

00:45:38,940 --> 00:45:36,770

that people started throwing bottles of

992

00:45:41,470 --> 00:45:38,950

water at each other up onto the stage

993

00:45:44,410 --> 00:45:41,480

the topic then was subluxation and

994

00:45:47,290 --> 00:45:44,420

whether it existed or not and that is

995

00:45:50,380 --> 00:45:47,300

still a contentious issue 25 years after

996

00:45:52,570 --> 00:45:50,390

Steven Basso wrote his article and 125

997

00:45:53,680 --> 00:45:52,580

years after he was first promoted the

998

00:45:55,570 --> 00:45:53,690

debate within chiropractors is

999

00:45:57,850 --> 00:45:55,580

interesting that we need to ask what

1000

00:45:59,500 --> 00:45:57,860

about the evidence over the years there

1001  
00:46:01,600 --> 00:45:59,510  
have been a number of scientific reviews

1002  
00:46:03,550 --> 00:46:01,610  
that have included an assessment of the

1003  
00:46:06,280 --> 00:46:03,560  
evidence for and against chiropractic

1004  
00:46:08,380 --> 00:46:06,290  
and the most recent as this article was

1005  
00:46:10,330 --> 00:46:08,390  
written comprehensive review was a

1006  
00:46:13,900 --> 00:46:10,340  
report prepared for the Ontario Ministry

1007  
00:46:15,390 --> 00:46:13,910  
of Health called the Ontario report this

1008  
00:46:18,460 --> 00:46:15,400  
review was in Stevens opinion

1009  
00:46:20,620 --> 00:46:18,470  
methodologically sound but flawed in his

1010  
00:46:22,990 --> 00:46:20,630  
conclusion the authors of the Ontario

1011  
00:46:24,820 --> 00:46:23,000  
report conducted a detailed literature

1012  
00:46:28,330 --> 00:46:24,830  
review and found that the first

1013  
00:46:30,280 --> 00:46:28,340

randomized control trial RCT of spinal

1014

00:46:35,200 --> 00:46:30,290

manipulation in the management of low

1015

00:46:36,850 --> 00:46:35,210

back pain LBP was published in 1974 the

1016

00:46:39,310 --> 00:46:36,860

first controlled trial of chiropractic

1017

00:46:40,329 --> 00:46:39,320

but not a randomized control trial was

1018

00:46:42,789 --> 00:46:40,339

published in 1980

1019

00:46:45,519 --> 00:46:42,799

six the authors of this study commented

1020

00:46:47,829 --> 00:46:45,529

at the time that quote any efficacy of

1021

00:46:49,289 --> 00:46:47,839

chiropractic therapy can only be

1022

00:46:51,789 --> 00:46:49,299

inferred from the studies of

1023

00:46:53,559 --> 00:46:51,799

manipulating therapy for the treatment

1024

00:46:56,529 --> 00:46:53,569

of lower back pain which have been

1025

00:46:58,660 --> 00:46:56,539

performed utilizing medical osteopathic

1026  
00:47:02,410 --> 00:46:58,670  
or physiotherapy trained practitioners

1027  
00:47:05,019 --> 00:47:02,420  
of manipulation the Ontario report

1028  
00:47:08,229 --> 00:47:05,029  
authors in reviewing the pre and post

1029  
00:47:10,930 --> 00:47:08,239  
1986 research identified a definite

1030  
00:47:13,989 --> 00:47:10,940  
trend in favor of spinal manipulation as

1031  
00:47:16,569 --> 00:47:13,999  
a valid treatment of low back pain and

1032  
00:47:18,339 --> 00:47:16,579  
the report says these results

1033  
00:47:20,890 --> 00:47:18,349  
corroborate the value of spinal

1034  
00:47:23,349 --> 00:47:20,900  
manipulation the results demonstrated a

1035  
00:47:26,170 --> 00:47:23,359  
consistent and strong trend favoring

1036  
00:47:27,969 --> 00:47:26,180  
spinal manipulative treatment support is

1037  
00:47:29,019 --> 00:47:27,979  
consistent for the use of spinal

1038  
00:47:34,749 --> 00:47:29,029

manipulation

1039

00:47:36,940 --> 00:47:34,759

had been shown to be effective in lower

1040

00:47:39,940 --> 00:47:36,950

back pain trials that did not include

1041

00:47:42,160 --> 00:47:39,950

chiropractic management once trials

1042

00:47:43,569 --> 00:47:42,170

began to use chiropractic these also

1043

00:47:46,299 --> 00:47:43,579

demonstrated that spinal manipulation

1044

00:47:49,870 --> 00:47:46,309

was effective the logical conclusion to

1045

00:47:51,819 --> 00:47:49,880

reach Stephen Wester suggests was that

1046

00:47:54,160 --> 00:47:51,829

spinal manipulation is an effective form

1047

00:47:56,769 --> 00:47:54,170

of management for some cases of low back

1048

00:47:59,920 --> 00:47:56,779

pain but the conclusion the Ontario

1049

00:48:01,719 --> 00:47:59,930

report came to was more specific quote

1050

00:48:03,819 --> 00:48:01,729

in the bulk of the methodologically

1051

00:48:06,489 --> 00:48:03,829

sound clinical studies spinal

1052

00:48:08,499 --> 00:48:06,499

manipulation applied by chiropractors is

1053

00:48:10,239 --> 00:48:08,509

shown to be more effective than many

1054

00:48:13,479 --> 00:48:10,249

alternative treatments for lower back

1055

00:48:16,029 --> 00:48:13,489

pain given that another major review the

1056

00:48:18,249 --> 00:48:16,039

so-called rand report had concluded that

1057

00:48:20,259 --> 00:48:18,259

no well conducted randomized control

1058

00:48:22,390 --> 00:48:20,269

trials have been done comparing

1059

00:48:25,269 --> 00:48:22,400

different techniques of manipulation for

1060

00:48:27,519 --> 00:48:25,279

patients with low back pain Stephen says

1061

00:48:29,349 --> 00:48:27,529

he cannot understand or agree with the

1062

00:48:31,209 --> 00:48:29,359

conclusion reached by the authors of the

1063

00:48:33,940 --> 00:48:31,219

Ontario report and advocate this was a

1064

00:48:35,170 --> 00:48:33,950

major report on chiropractic he says

1065

00:48:37,420 --> 00:48:35,180

that he believes that the evidence

1066

00:48:39,400 --> 00:48:37,430

supporting spinal manipulation as a

1067

00:48:42,190 --> 00:48:39,410

valid treatment for low back pain is

1068

00:48:43,809 --> 00:48:42,200

strong though he accepts that there is

1069

00:48:48,459 --> 00:48:43,819

still some debate about his relative

1070

00:48:50,410 --> 00:48:48,469

efficacy in chronic pain states as far

1071

00:48:52,269 --> 00:48:50,420

as specific chiropractic manipulation is

1072

00:48:54,460 --> 00:48:52,279

concerned his assessment of the

1073

00:48:56,770 --> 00:48:54,470

available evidence leads him to

1074

00:48:58,780 --> 00:48:56,780

with the view that quote no single

1075

00:49:01,390 --> 00:48:58,790

uniquely chiropractic method of healing

1076

00:49:04,150 --> 00:49:01,400

can yet be considered scientifically

1077

00:49:06,580 --> 00:49:04,160

validated despite the many satisfied

1078

00:49:08,230 --> 00:49:06,590

patients despite nearly a century of

1079

00:49:10,870 --> 00:49:08,240

apparently useful and successful

1080

00:49:12,910 --> 00:49:10,880

clinical practice and despite the many

1081

00:49:15,550 --> 00:49:12,920

testimonials of remarkable recoveries

1082

00:49:18,370 --> 00:49:15,560

and cures that chiropractic Arkin main

1083

00:49:21,580 --> 00:49:18,380

scientifically unevaluated for the most

1084

00:49:24,580 --> 00:49:21,590

part and therefore necessarily unproven

1085

00:49:27,730 --> 00:49:24,590

no strong claims for the adjusted arts

1086

00:49:31,270 --> 00:49:27,740

are justified at this time and that's a

1087

00:49:34,840 --> 00:49:31,280

quote from a paper by JC Keating and DT

1088

00:49:36,550 --> 00:49:34,850

Hansen in 1992 in light of the evidence

1089

00:49:40,170 --> 00:49:36,560

have been should we deal with

1090

00:49:42,670 --> 00:49:40,180

chiropractic and chiropractors firstly

1091

00:49:44,410 --> 00:49:42,680

Stephen says as a scientist and a health

1092

00:49:47,130 --> 00:49:44,420

professional he believes that we must

1093

00:49:49,510 --> 00:49:47,140

accept the evidence that does exist

1094

00:49:51,730 --> 00:49:49,520

chiropractic manipulation is on the

1095

00:49:53,650 --> 00:49:51,740

basis of existing evidence a valid

1096

00:49:57,100 --> 00:49:53,660

management option for lower back pain

1097

00:49:58,900 --> 00:49:57,110

and has no more or no less evidence to

1098

00:50:02,770 --> 00:49:58,910

support its use than other treatments

1099

00:50:04,600 --> 00:50:02,780

such as physiotherapy secondly as there

1100

00:50:06,580 --> 00:50:04,610

is insufficient evidence at present to

1101  
00:50:08,860 --> 00:50:06,590  
support the claim that chiropractic is

1102  
00:50:11,590 --> 00:50:08,870  
useful either in a primary or

1103  
00:50:13,690 --> 00:50:11,600  
complementary role in the management of

1104  
00:50:16,390 --> 00:50:13,700  
visceral conditions like asthma headache

1105  
00:50:18,760 --> 00:50:16,400  
gastric ulcer its use in such cases

1106  
00:50:21,820 --> 00:50:18,770  
should be discouraged until supportive

1107  
00:50:23,680 --> 00:50:21,830  
evidence is available none of the major

1108  
00:50:26,050 --> 00:50:23,690  
reviews of chiropractic have concluded

1109  
00:50:28,510 --> 00:50:26,060  
that chiropractic is useful in these

1110  
00:50:30,010 --> 00:50:28,520  
conditions thirdly as there is

1111  
00:50:31,510 --> 00:50:30,020  
insufficient evidence at present to

1112  
00:50:34,120 --> 00:50:31,520  
support the claim that patients may

1113  
00:50:36,400 --> 00:50:34,130

benefit from preventative or maintenance

1114

00:50:39,550 --> 00:50:36,410

adjustments there you should be limited

1115

00:50:41,470 --> 00:50:39,560

to a research setting fourthly the

1116

00:50:42,760 --> 00:50:41,480

clinical and academic chiropractors who

1117

00:50:45,190 --> 00:50:42,770

are fighting the battle for more

1118

00:50:46,410 --> 00:50:45,200

research into chiropractic deserve our

1119

00:50:48,940 --> 00:50:46,420

full support

1120

00:50:51,700 --> 00:50:48,950

perhaps chiropractic does have something

1121

00:50:53,650 --> 00:50:51,710

unique to offer perhaps they can help in

1122

00:50:55,630 --> 00:50:53,660

some of visceral conditions perhaps

1123

00:50:56,320 --> 00:50:55,640

patients can benefit from preventative

1124

00:50:59,050 --> 00:50:56,330

adjustments

1125

00:51:00,870 --> 00:50:59,060

only sound scientific research will

1126

00:51:04,360 --> 00:51:00,880

allow us to answer these questions

1127

00:51:06,070 --> 00:51:04,370

finally and most importantly we must try

1128

00:51:08,020 --> 00:51:06,080

to create a spirit of cooperative

1129

00:51:10,750 --> 00:51:08,030

dialogue between chiropractic

1130

00:51:12,940 --> 00:51:10,760

and Orthodox medicine and seek to break

1131

00:51:15,070 --> 00:51:12,950

down the us-versus-them barriers that

1132

00:51:17,440 --> 00:51:15,080

have been built up over many years by

1133

00:51:21,360 --> 00:51:17,450

those on both sides who cannot accept

1134

00:51:25,000 --> 00:51:21,370

that they just might be wrong that's

1135

00:51:29,140 --> 00:51:25,010

Steven basa writing in 1995 and

1136

00:51:31,960 --> 00:51:29,150

reprinted in our June 2020 of the

1137

00:51:34,690 --> 00:51:31,970

magazine we should add that a lot of

1138

00:51:37,720 --> 00:51:34,700

those visceral conditions that are

1139

00:51:39,610 --> 00:51:37,730

referred to there there are many many

1140

00:51:43,000 --> 00:51:39,620

more that chiropractors claim that they

1141

00:51:45,160 --> 00:51:43,010

can treat everything from bedwetting to

1142

00:51:48,130 --> 00:51:45,170

disease and some even claiming that they

1143

00:51:51,850 --> 00:51:48,140

can treat and improve immunity and in

1144

00:51:54,010 --> 00:51:51,860

fact treat coronavirus so there are some

1145

00:51:56,080 --> 00:51:54,020

very very serious issues here with what

1146

00:51:58,150 --> 00:51:56,090

the chiropractor's are claiming they can

1147

00:52:04,720 --> 00:51:58,160

do and without evidence to show that

1148

00:52:09,250 --> 00:52:04,730

they can do it that's classic catch

1149

00:52:12,040 --> 00:52:09,260

chiropractic from the June 2020 issue of

1150

00:52:14,050 --> 00:52:12,050

the skeptic now at the time of this

1151  
00:52:16,720 --> 00:52:14,060  
recording this issue is not available

1152  
00:52:19,780 --> 00:52:16,730  
for free to download unlike almost all

1153  
00:52:21,430 --> 00:52:19,790  
of the other issues of our magazine you

1154  
00:52:25,140 --> 00:52:21,440  
can see those other issues that skeptics

1155  
00:52:29,260 --> 00:52:25,150  
calm a you and download everything from

1156  
00:52:31,470 --> 00:52:29,270  
1981 up till the last year for this

1157  
00:52:35,350 --> 00:52:31,480  
article does form part of a major

1158  
00:52:38,720 --> 00:52:35,360  
investigative feature in the June 2020

1159  
00:52:41,089 --> 00:52:38,730  
issue of the magazine on chiropractic

1160  
00:52:44,540 --> 00:52:41,099  
in which we look at so many different

1161  
00:52:47,359 --> 00:52:44,550  
aspects shocky research shonky

1162  
00:52:50,210 --> 00:52:47,369  
philosophy those chiropractors who

1163  
00:52:52,120 --> 00:52:50,220

belong in a shame file for promoting all

1164

00:52:54,560 --> 00:52:52,130

sorts of shonky science and medicine

1165

00:52:57,440 --> 00:52:54,570

various other aspects of the industry

1166

00:53:00,290 --> 00:52:57,450

including the role or lack of it of

1167

00:53:02,450 --> 00:53:00,300

regulators this is part of a major

1168

00:53:04,359 --> 00:53:02,460

undertaking by Australian skeptics and

1169

00:53:06,910 --> 00:53:04,369

others to look at this particular

1170

00:53:09,470 --> 00:53:06,920

industry which wants to be seen as

1171

00:53:11,839 --> 00:53:09,480

scientific but his underpinnings are

1172

00:53:13,400 --> 00:53:11,849

anything but if you want to read more

1173

00:53:15,680 --> 00:53:13,410

about chiropractic in this issue of the

1174

00:53:18,530 --> 00:53:15,690

magazine you'll have to subscribe which

1175

00:53:22,020 --> 00:53:18,540

you can do on our website skeptics calm

1176

00:53:22,030 --> 00:53:38,600

[Music]

1177

00:53:42,810 --> 00:53:40,950

thank you for listening to the skeptic

1178

00:53:45,270 --> 00:53:42,820

zone and remember you can find out a lot

1179

00:53:47,790 --> 00:53:45,280

more about Maynard Maynard calm today

1180

00:53:51,630 --> 00:53:47,800

you all his podcasts all his crazy

1181

00:53:53,670 --> 00:53:51,640

videos and I think hopefully in the very

1182

00:53:56,550 --> 00:53:53,680

near future there'll be some more live

1183

00:53:59,010 --> 00:53:56,560

entertainment videos online from Maynard

1184

00:54:02,180 --> 00:53:59,020

we're looking forward to that now for

1185

00:54:07,590 --> 00:54:02,190

you folks in North America this Tuesday

1186

00:54:11,220 --> 00:54:07,600

afternoon I think it is I'll be chatting

1187

00:54:13,110 --> 00:54:11,230

online with susan gerbic video talk you

1188

00:54:15,690 --> 00:54:13,120

can view on Facebook and that will be

1189

00:54:20,220 --> 00:54:15,700

for people in Australia that will be 8

1190

00:54:22,790 --> 00:54:20,230

a.m. on Wednesday the 24th Susan does a

1191

00:54:25,680 --> 00:54:22,800

regular series of video chats with

1192

00:54:29,010 --> 00:54:25,690

skeptical people I will add a link to

1193

00:54:32,490 --> 00:54:29,020

the show notes if you want to tune in

1194

00:54:35,790 --> 00:54:32,500

for that and meanwhile here in my state

1195

00:54:38,790 --> 00:54:35,800

New South Wales I think the news is next

1196

00:54:40,320 --> 00:54:38,800

week or very soon cinemas are going to

1197

00:54:43,410 --> 00:54:40,330

be reopening it's going to be

1198

00:54:44,880 --> 00:54:43,420

interesting because I don't think the

1199

00:54:46,880 --> 00:54:44,890

big studios are releasing their

1200

00:54:50,460 --> 00:54:46,890

blockbusters they've been keeping on ice

1201  
00:54:54,420 --> 00:54:50,470  
but I do notice a lot of classic movies

1202  
00:54:58,230 --> 00:54:54,430  
being re-released soon including The

1203  
00:55:02,370 --> 00:54:58,240  
Empire Strikes Back the 40th the 40th

1204  
00:55:04,110 --> 00:55:02,380  
anniversary which means it's been 20

1205  
00:55:05,870 --> 00:55:04,120  
years since I went to save the 20th

1206  
00:55:08,400 --> 00:55:05,880  
anniversary good grief

1207  
00:55:10,170 --> 00:55:08,410  
coming up on next week's show more

1208  
00:55:12,990 --> 00:55:10,180  
logical fallacies with Michelle biggest

1209  
00:55:14,880 --> 00:55:13,000  
mark and I think there's going to be a

1210  
00:55:18,030 --> 00:55:14,890  
story about the VAX

1211  
00:55:19,410 --> 00:55:18,040  
bus maybe that should be rebuilt maybe

1212  
00:55:22,130 --> 00:55:19,420  
they should they got the spelling wrong

1213  
00:55:26,760 --> 00:55:22,140

it should be called the vexed bus hmm

1214

00:55:28,770 --> 00:55:26,770

the VAX bus - touring this country soon

1215

00:55:31,650 --> 00:55:28,780

I think anyway we'll try to bring you

1216

00:55:34,020 --> 00:55:31,660

some news on that crazy situation and

1217

00:55:35,880 --> 00:55:34,030

just before I go thank you once again to

1218

00:55:39,900 --> 00:55:35,890

the new patreon who have just come on

1219

00:55:42,710 --> 00:55:39,910

board with chipping in \$5 that's really

1220

00:55:45,480 --> 00:55:42,720

great everybody who chips in \$5 is

1221

00:55:47,849 --> 00:55:45,490

really helping the show be produced

1222

00:55:52,109 --> 00:55:47,859

every week and stay in your ears or

1223

00:55:53,789 --> 00:55:52,119

in your car or on your system however

1224

00:55:56,009 --> 00:55:53,799

you listen to the skeptics and maybe

1225

00:55:58,589 --> 00:55:56,019

you're swimming you've got special

1226  
00:56:02,789 --> 00:55:58,599  
underwater ears Bluetooth or something

1227  
00:56:04,410 --> 00:56:02,799  
no thank you for listening to the

1228  
00:56:11,599 --> 00:56:04,420  
skeptics an but for this week

1229  
00:56:17,809 --> 00:56:14,130  
you've been listening to the skeptic

1230  
00:56:22,799 --> 00:56:17,819  
zone podcast please visit our website at

1231  
00:56:25,499 --> 00:56:22,809  
WWDC because your notes contacts and to

1232  
00:56:29,249 --> 00:56:25,509  
access the bat catalog of episodes going

1233  
00:56:32,059 --> 00:56:29,259  
back to 2008 you can follow the skeptic

1234  
00:56:34,799 --> 00:56:32,069  
zone podcast on twitter at skeptic zone

1235  
00:56:36,349 --> 00:56:34,809  
visit our facebook page or leave a

1236  
00:56:39,029 --> 00:56:36,359  
review on itunes

1237  
00:56:42,420 --> 00:56:39,039  
you can also support the skeptic zone

1238  
00:56:45,809 --> 00:56:42,430

via patreon or PayPal the skeptic zone

1239

00:56:47,519 --> 00:56:45,819

podcast is an independent production the

1240

00:56:49,650 --> 00:56:47,529

views and opinions expressed on the

1241

00:56:51,989 --> 00:56:49,660

skeptic zone are not necessarily those

1242

00:56:56,900 --> 00:56:51,999

of Australian skeptics or any other

1243

00:56:56,910 --> 00:57:06,440

you

1244

00:57:12,599 --> 00:57:09,240

hello to all those people who listen

1245

00:57:15,030 --> 00:57:12,609

after the music it's the dice game the

1246

00:57:18,180 --> 00:57:15,040

afterthought section of the show where I

1247

00:57:21,630 --> 00:57:18,190

roll a die in this case it's a 10 sided

1248

00:57:27,210 --> 00:57:21,640

die three times and you use whatever

1249

00:57:30,870 --> 00:57:27,220

where's my coffee powers you have mmm

1250

00:57:34,980 --> 00:57:30,880

that's better to see if you can guess or

1251

00:57:37,050 --> 00:57:34,990

predict or look into the future to look

1252

00:57:38,880 --> 00:57:37,060

into the people look into the future

1253

00:57:41,910 --> 00:57:38,890

what are they seeing they're seeing

1254

00:57:44,070 --> 00:57:41,920

information sent back from the past and

1255

00:57:46,589 --> 00:57:44,080

I think it's pretty well understood that

1256

00:57:50,880 --> 00:57:46,599

you can't send information into the past

1257

00:57:52,079 --> 00:57:50,890

hmm maybe we can we can try 10-sided I'm

1258

00:57:55,910 --> 00:57:52,089

gonna roll it three times

1259

00:57:58,260 --> 00:57:55,920

here comes roll number one guess away

1260

00:58:02,880 --> 00:57:58,270

there's no room on the table because my

1261

00:58:05,000 --> 00:58:02,890

sound foam is there but I'll see if it

1262

00:58:07,800 --> 00:58:05,010

right the end here

1263

00:58:10,650 --> 00:58:07,810

that's gone under the sound foam I'll

1264

00:58:14,460 --> 00:58:10,660

pull it up it's number one where's my

1265

00:58:17,910 --> 00:58:14,470

skeptics and magic pencil I'm not

1266

00:58:28,320 --> 00:58:17,920

prepared today at all here this one okay

1267

00:58:36,300 --> 00:58:28,330

let's roll of the die is five one five

1268

00:58:38,280 --> 00:58:36,310

and the last number this week ah one so

1269

00:58:42,630 --> 00:58:38,290

this week's winning numbers waiting what

1270

00:58:44,310 --> 00:58:42,640

do you wind yeah you win you win the

1271

00:58:48,900 --> 00:58:44,320

chance to hear the next episode today