



Episode **618**

THE
**SKEPTIC
ZONE**
PODCAST

www.skepticzone.tv

16 August 2020

Strange Seeds
with Michelle Franklin

News from
Australian Skeptics Inc

Logical Fallacies
with Michelle Bijkersma
"The Texas Sharpshooter Fallacy"

Biblical shenanigans at
Sydney's Townhall and the world
according to Homoeopathy



1
00:00:00,000 --> 00:00:06,630
[Music]

2
00:00:11,270 --> 00:00:08,470
welcome to the skeptic zone

3
00:00:16,830 --> 00:00:11,280
the podcast from australia for science

4
00:00:23,590 --> 00:00:16,840
and reason

5
00:00:25,670 --> 00:00:23,600
[Music]

6
00:00:27,150 --> 00:00:25,680
yes it's the skeptic zone podcast

7
00:00:30,790 --> 00:00:27,160
episode number

8
00:00:32,310 --> 00:00:30,800
618 for the 16th of august 2020

9
00:00:34,310 --> 00:00:32,320
richard saunders here with you from

10
00:00:37,350 --> 00:00:34,320
sydney australia

11
00:00:39,510 --> 00:00:37,360
oh the sun's not even up yet

12
00:00:40,470 --> 00:00:39,520
i can't tell if it's i think it's going

13
00:00:44,869 --> 00:00:40,480

to be a clear

14

00:00:48,310 --> 00:00:44,879

day coming up on this week's show seeds

15

00:00:51,430 --> 00:00:48,320

mysterious seeds in mysterious packets

16

00:00:53,270 --> 00:00:51,440

from china is it an urban myth is it

17

00:00:55,750 --> 00:00:53,280

really happening what do people do if

18

00:00:58,310 --> 00:00:55,760

they get these seeds

19

00:00:59,189 --> 00:00:58,320

find out when michelle franklin looks at

20

00:01:02,549 --> 00:00:59,199

this

21

00:01:04,710 --> 00:01:02,559

very weird and strange topic

22

00:01:06,710 --> 00:01:04,720

have you recently received a packet of

23

00:01:08,789 --> 00:01:06,720

seeds from china

24

00:01:10,390 --> 00:01:08,799

you didn't order them you know nothing

25

00:01:13,910 --> 00:01:10,400

about them yet

26

00:01:16,390 --> 00:01:13,920

they arrive are they seeds of distress

27

00:01:17,429 --> 00:01:16,400

find out with michelle franklin

28

00:01:19,510 --> 00:01:17,439

following that we have

29

00:01:21,590 --> 00:01:19,520

skeptical news from the australian

30

00:01:24,070 --> 00:01:21,600

skeptics via the uh

31

00:01:26,390 --> 00:01:24,080

newsletter then it's michelle bickersma

32

00:01:29,429 --> 00:01:26,400

with logical fallacies this week

33

00:01:31,190 --> 00:01:29,439

michelle looks at the texas sharpshooter

34

00:01:32,950 --> 00:01:31,200

fallacy that's an interesting name for a

35

00:01:34,149 --> 00:01:32,960

fallacy

36

00:01:36,469 --> 00:01:34,159

hope you're doing okay there in

37

00:01:38,230 --> 00:01:36,479

melbourne michelle melvin is still in

38

00:01:41,270 --> 00:01:38,240

the midst of a very strong

39

00:01:44,149 --> 00:01:41,280

very stringent lockdown regime

40

00:01:45,109 --> 00:01:44,159

to try and uh well i don't have to tell

41

00:01:46,710 --> 00:01:45,119

you why

42

00:01:48,230 --> 00:01:46,720

then to round off the show we have a

43

00:01:50,230 --> 00:01:48,240

couple of items

44

00:01:51,910 --> 00:01:50,240

from the pages of the skeptic magazine

45

00:01:54,950 --> 00:01:51,920

going back some

46

00:01:56,230 --> 00:01:54,960

biblical shenanigans at sydney's town

47

00:01:59,350 --> 00:01:56,240

hall

48

00:02:02,709 --> 00:01:59,360

then we have another article by the late

49

00:02:05,789 --> 00:02:02,719

great barry williams discussing

50

00:02:07,429 --> 00:02:05,799

what would the world be like if

51
00:02:11,510 --> 00:02:07,439
homeopathy

52
00:02:15,350 --> 00:02:11,520
was true or should i say if it worked as

53
00:02:17,190 --> 00:02:15,360
claimed now we often say in the skeptics

54
00:02:18,470 --> 00:02:17,200
the game we play the thought experiment

55
00:02:22,390 --> 00:02:18,480
is

56
00:02:24,710 --> 00:02:22,400
well

57
00:02:26,390 --> 00:02:24,720
what if it were true what would the

58
00:02:28,869 --> 00:02:26,400
world look like and you can apply that

59
00:02:30,630 --> 00:02:28,879
to talking to the dead or

60
00:02:31,910 --> 00:02:30,640
what if it were true if people could

61
00:02:34,390 --> 00:02:31,920
really find

62
00:02:35,589 --> 00:02:34,400
water using water dividing or they could

63
00:02:38,949 --> 00:02:35,599

really bend

64

00:02:40,949 --> 00:02:38,959

metals with psychic powers and so on

65

00:02:43,430 --> 00:02:40,959

it's a very interesting thought

66

00:02:46,470 --> 00:02:43,440

experiment but find out more later on

67

00:02:48,150 --> 00:02:46,480

when we read some of those items

68

00:02:50,949 --> 00:02:48,160

now don't forget before we get on to the

69

00:02:52,790 --> 00:02:50,959

show don't forget that on the 23rd to

70

00:02:54,869 --> 00:02:52,800

the 25th of october this year the

71

00:02:58,309 --> 00:02:54,879

australian skeptics national convention

72

00:03:01,030 --> 00:02:58,319

skepticon 2020 is online

73

00:03:02,390 --> 00:03:01,040

you can sit back in your lounge room in

74

00:03:04,630 --> 00:03:02,400

your dressing gown

75

00:03:06,470 --> 00:03:04,640

in your pajamas anywhere around the

76

00:03:07,750 --> 00:03:06,480
world and join us for this year's

77

00:03:09,589 --> 00:03:07,760
convention

78

00:03:11,750 --> 00:03:09,599
lots of interesting speakers lined up

79

00:03:16,390 --> 00:03:11,760
and some fun and games along the way

80

00:03:18,229 --> 00:03:16,400
look head to www.skepticon.org.u with

81

00:03:20,229 --> 00:03:18,239
links in this week's show notes as

82

00:03:21,750 --> 00:03:20,239
ever and find out more about the

83

00:03:25,350 --> 00:03:21,760
speakers and the

84

00:03:26,309 --> 00:03:25,360
the events coming up and being online

85

00:03:28,630 --> 00:03:26,319
rather than

86

00:03:30,789 --> 00:03:28,640
in a physical location means you save on

87

00:03:32,470 --> 00:03:30,799
travel you save on accommodation

88

00:03:34,470 --> 00:03:32,480

and this is reflected in the ticket

89

00:03:37,830 --> 00:03:34,480
prices which are also very cheap

90

00:03:39,990 --> 00:03:37,840
so regardless of it being online or in

91

00:03:42,229 --> 00:03:40,000
real life is that how i can say it or in

92

00:03:44,630 --> 00:03:42,239
face face to face face to face time

93

00:03:45,990 --> 00:03:44,640
oh these days are so confusing join us

94

00:03:48,750 --> 00:03:46,000
please join us for skepticon

95

00:03:50,550 --> 00:03:48,760
get your tickets today at uh

96

00:03:53,270 --> 00:03:50,560
skepticon.org you

97

00:03:54,789 --> 00:03:53,280
yes it is a bit of a strange uh time

98

00:03:56,869 --> 00:03:54,799
we're still living through and

99

00:03:58,309 --> 00:03:56,879
we'll be living through for a while yet

100

00:04:01,190 --> 00:03:58,319
i guess

101
00:04:03,990 --> 00:04:01,200
which makes me think how we will be when

102
00:04:07,429 --> 00:04:04,000
we come out of all this

103
00:04:12,149 --> 00:04:07,439
now i intend to be fitter

104
00:04:14,470 --> 00:04:12,159
thinner yeah fitter and thinner i hope

105
00:04:15,589 --> 00:04:14,480
that maybe you too are putting a

106
00:04:19,349 --> 00:04:15,599
positive

107
00:04:22,550 --> 00:04:19,359
angle on this so what do you think

108
00:04:23,030 --> 00:04:22,560
that you will be post-covered will you

109
00:04:25,510 --> 00:04:23,040
be

110
00:04:26,629 --> 00:04:25,520
happier healthier will you make an

111
00:04:30,150 --> 00:04:26,639
effort to

112
00:04:33,030 --> 00:04:30,160
to do something to learn a new skill set

113
00:04:33,909 --> 00:04:33,040

online education i guess what i'm saying

114

00:04:37,670 --> 00:04:33,919

is we all shouldn't

115

00:04:38,950 --> 00:04:37,680

try to make the best of a bad situation

116

00:04:41,030 --> 00:04:38,960

but now it's time for me to run

117

00:04:43,189 --> 00:04:41,040

downstairs and have the very last

118

00:04:46,070 --> 00:04:43,199

piece of peanut butter toast i'm going

119

00:04:49,590 --> 00:04:46,080

to have for a while because i've decided

120

00:04:52,469 --> 00:04:49,600

with the recommendation from the

121

00:04:53,670 --> 00:04:52,479

specialist to cut my cholesterol down a

122

00:04:55,350 --> 00:04:53,680

little

123

00:04:57,590 --> 00:04:55,360

they looked at my chart and i said all

124

00:05:00,710 --> 00:04:57,600

your cholesterol is a little high

125

00:05:01,189 --> 00:05:00,720

not very much so no more peanut butter

126
00:05:03,430 --> 00:05:01,199
toast

127
00:05:05,430 --> 00:05:03,440
for me for a while so i'm going to enjoy

128
00:05:22,830 --> 00:05:05,440
this last one will i do that

129
00:05:22,840 --> 00:05:28,469
so

130
00:05:37,110 --> 00:05:30,020
life is wild

131
00:05:42,550 --> 00:05:37,120
[Music]

132
00:05:53,670 --> 00:05:44,390
hi guys this is michelle franklin

133
00:05:55,110 --> 00:05:53,680
reporting from the northern territory

134
00:05:57,270 --> 00:05:55,120
today i want to talk about something

135
00:05:59,430 --> 00:05:57,280
that i saw on the internet

136
00:06:00,469 --> 00:05:59,440
back in july i saw this little story on

137
00:06:02,390 --> 00:06:00,479
facebook

138
00:06:04,070 --> 00:06:02,400

about someone in america who claimed to

139

00:06:05,749 --> 00:06:04,080

have received a package of seeds from

140

00:06:07,430 --> 00:06:05,759

china in the mail

141

00:06:09,510 --> 00:06:07,440

they said they didn't order anything and

142

00:06:11,350 --> 00:06:09,520

this little package that was labeled as

143

00:06:13,590 --> 00:06:11,360

earrings

144

00:06:16,469 --> 00:06:13,600

but actually contained lemon seeds just

145

00:06:17,990 --> 00:06:16,479

showed up at their house one day

146

00:06:19,670 --> 00:06:18,000

the story was about how the u.s

147

00:06:21,110 --> 00:06:19,680

department of agriculture was

148

00:06:22,950 --> 00:06:21,120

asking that anyone who receives a

149

00:06:26,870 --> 00:06:22,960

package like this to contact them

150

00:06:28,469 --> 00:06:26,880

immediately and dispose of it safely

151

00:06:30,309 --> 00:06:28,479

my first thought was that it's some

152

00:06:32,070 --> 00:06:30,319

silly mistake someone's ordered some

153

00:06:33,909 --> 00:06:32,080

seeds online and the package has been

154

00:06:35,189 --> 00:06:33,919

mislabeled and sent to the wrong person

155

00:06:38,469 --> 00:06:35,199

happens all the time

156

00:06:39,990 --> 00:06:38,479

but i read the comments so many people

157

00:06:41,110 --> 00:06:40,000

were laughing at how stupid the

158

00:06:43,749 --> 00:06:41,120

authorities are for

159

00:06:44,950 --> 00:06:43,759

worrying about lemon seeds and of course

160

00:06:46,790 --> 00:06:44,960

this bothered me because

161

00:06:49,029 --> 00:06:46,800

they had no regard for the possibility

162

00:06:51,110 --> 00:06:49,039

of pests or pathogens on those seeds and

163

00:06:52,070 --> 00:06:51,120

they all seemed extremely confident that

164

00:06:54,629 --> 00:06:52,080

they were in fact

165

00:06:55,189 --> 00:06:54,639

lemon seeds it reminded me of those

166

00:06:58,230 --> 00:06:55,199

people

167

00:06:58,629 --> 00:06:58,240

on facebook who comment on the the snake

168

00:07:01,589 --> 00:06:58,639

id

169

00:07:02,790 --> 00:07:01,599

posts you know the ones where there's a

170

00:07:04,469 --> 00:07:02,800

brown colored snake

171

00:07:06,870 --> 00:07:04,479

and they assume that they're experts and

172

00:07:07,510 --> 00:07:06,880

declared that that's certainly a king

173

00:07:09,430 --> 00:07:07,520

brown

174

00:07:10,870 --> 00:07:09,440

or worse the ones who see the tiniest

175

00:07:13,029 --> 00:07:10,880

hint of a pattern and

176

00:07:14,150 --> 00:07:13,039

declare that it must be a harmless

177

00:07:15,909 --> 00:07:14,160

carpet snake

178

00:07:17,589 --> 00:07:15,919

seeming naive to the fact that there are

179

00:07:18,390 --> 00:07:17,599

any other snakes in the world besides

180

00:07:21,430 --> 00:07:18,400

king brown and

181

00:07:23,510 --> 00:07:21,440

carpet anyway i didn't think too much

182

00:07:24,150 --> 00:07:23,520

about this post other than to feel a bit

183

00:07:26,309 --> 00:07:24,160

annoyed at

184

00:07:27,510 --> 00:07:26,319

overconfident amateurs educating one

185

00:07:30,230 --> 00:07:27,520

another and spreading their own

186

00:07:32,469 --> 00:07:30,240

misplaced confidence around

187

00:07:33,670 --> 00:07:32,479

then one day last week i woke up and

188

00:07:36,070 --> 00:07:33,680

checked facebook again

189

00:07:37,990 --> 00:07:36,080

and found a follow-up story and this

190

00:07:40,710 --> 00:07:38,000

time i actually read the article

191

00:07:42,870 --> 00:07:40,720

it claimed that an arkansas man had

192

00:07:44,469 --> 00:07:42,880

received a mysterious package from china

193

00:07:46,950 --> 00:07:44,479

containing unknown seeds

194

00:07:47,909 --> 00:07:46,960

and out of curiosity he planted one and

195

00:07:49,430 --> 00:07:47,919

looked after it

196

00:07:51,589 --> 00:07:49,440

of course this is stupid he shouldn't

197

00:07:52,629 --> 00:07:51,599

have done that but i wasn't surprised

198

00:07:54,790 --> 00:07:52,639

people are curious

199

00:07:57,110 --> 00:07:54,800

and he was just trying to learn more and

200

00:07:59,189 --> 00:07:57,120

he didn't understand the risks

201
00:08:01,270 --> 00:07:59,199
but the story became quite sensational

202
00:08:01,830 --> 00:08:01,280
after that it claimed that the mystery

203
00:08:03,830 --> 00:08:01,840
seeds

204
00:08:06,070 --> 00:08:03,840
had grown into a massive unstoppable

205
00:08:08,309 --> 00:08:06,080
fruit and it's still unknown what

206
00:08:09,830 --> 00:08:08,319
exactly the plant is

207
00:08:11,670 --> 00:08:09,840
although it's producing large white

208
00:08:13,510 --> 00:08:11,680
fruit and orange flowers

209
00:08:16,390 --> 00:08:13,520
and it says that authorities are coming

210
00:08:18,070 --> 00:08:16,400
to remove the plant and do further tests

211
00:08:19,670 --> 00:08:18,080
of course any decent botanist will be

212
00:08:20,230 --> 00:08:19,680
able to identify the plant with no

213
00:08:21,990 --> 00:08:20,240

problems

214

00:08:23,589 --> 00:08:22,000

but like any expert of course they're

215

00:08:24,550 --> 00:08:23,599

not going to do it over the phone or

216

00:08:25,670 --> 00:08:24,560

from a photo

217

00:08:27,909 --> 00:08:25,680

they're going to want to have a look at

218

00:08:30,550 --> 00:08:27,919

it properly before making a statement

219

00:08:32,230 --> 00:08:30,560

so the mystery plant is likely no more

220

00:08:32,709 --> 00:08:32,240

of a mystery than the brown colored

221

00:08:34,310 --> 00:08:32,719

snake

222

00:08:36,149 --> 00:08:34,320

it just hasn't been looked at by the

223

00:08:38,149 --> 00:08:36,159

right person yet

224

00:08:40,149 --> 00:08:38,159

now at this point my overactive

225

00:08:41,909 --> 00:08:40,159

skepticism still thinking that it's a

226

00:08:43,990 --> 00:08:41,919

dumb fluff piece about an old man and

227

00:08:46,310 --> 00:08:44,000

his pumpkin and it's no big deal

228

00:08:48,150 --> 00:08:46,320

but i watched the video and it appears

229

00:08:51,030 --> 00:08:48,160

that this is actually happening in the

230

00:08:53,110 --> 00:08:51,040

us on a larger scale than i was assuming

231

00:08:54,070 --> 00:08:53,120

and in other countries as well further

232

00:08:56,710 --> 00:08:54,080

googling led me

233

00:08:58,870 --> 00:08:56,720

to articles of similar packages from

234

00:09:01,829 --> 00:08:58,880

china malaysia and taiwan showing up in

235

00:09:04,230 --> 00:09:01,839

multiple countries including australia

236

00:09:05,829 --> 00:09:04,240

i went to the usda website and right

237

00:09:07,430 --> 00:09:05,839

there on their front page right above

238

00:09:09,829 --> 00:09:07,440

the covert 19 banner

239

00:09:11,910 --> 00:09:09,839
was a link regarding unsolicited

240

00:09:14,470 --> 00:09:11,920
packages of seeds from china

241

00:09:17,509 --> 00:09:14,480
it's not there today when i just checked

242

00:09:19,350 --> 00:09:17,519
but a week ago it was there

243

00:09:20,630 --> 00:09:19,360
that made me pay attention so i clicked

244

00:09:22,710 --> 00:09:20,640
the link and

245

00:09:24,790 --> 00:09:22,720
from there i learned that there's

246

00:09:26,550 --> 00:09:24,800
currently a joint investigation underway

247

00:09:27,590 --> 00:09:26,560
involving multiple state and federal

248

00:09:30,150 --> 00:09:27,600
departments

249

00:09:30,790 --> 00:09:30,160
including the usda's animal implant

250

00:09:32,630 --> 00:09:30,800
health

251
00:09:34,829 --> 00:09:32,640
inspection service and the department of

252
00:09:36,070 --> 00:09:34,839
homeland security's custom border

253
00:09:38,230 --> 00:09:36,080
protection

254
00:09:39,430 --> 00:09:38,240
i guess they were taking it seriously so

255
00:09:41,990 --> 00:09:39,440
that's good

256
00:09:42,470 --> 00:09:42,000
according to the usda at this stage they

257
00:09:44,310 --> 00:09:42,480
have

258
00:09:45,750 --> 00:09:44,320
no evidence that it's anything other

259
00:09:48,310 --> 00:09:45,760
than a brushing scam and

260
00:09:49,030 --> 00:09:48,320
i had to google brushing apparently this

261
00:09:52,550 --> 00:09:49,040
is

262
00:09:55,030 --> 00:09:52,560
where online sellers send unsolicited

263
00:09:57,110 --> 00:09:55,040

packages to random consumers and then

264

00:09:58,310 --> 00:09:57,120

post false reviews to boost their sales

265

00:10:00,630 --> 00:09:58,320

ratings

266

00:10:02,150 --> 00:10:00,640

of course if this is a brushing scam it

267

00:10:05,509 --> 00:10:02,160

seems odd that they'd pick

268

00:10:07,030 --> 00:10:05,519

seeds to send it's an odd choice but

269

00:10:10,550 --> 00:10:07,040

i guess they're small and lightweight

270

00:10:12,230 --> 00:10:10,560

and probably fairly cheap to acquire

271

00:10:14,230 --> 00:10:12,240

what i mainly wanted to talk about on

272

00:10:15,350 --> 00:10:14,240

this topic though isn't the actual risk

273

00:10:16,870 --> 00:10:15,360

of the seeds

274

00:10:18,710 --> 00:10:16,880

if you've listened to my story a while

275

00:10:19,990 --> 00:10:18,720

back about johnny depp and his infamous

276

00:10:22,710 --> 00:10:20,000

dogs then you'll already know that

277

00:10:24,710 --> 00:10:22,720

biosecurity across borders is a big deal

278

00:10:26,790 --> 00:10:24,720

and in this new age of covert 19 i'm

279

00:10:29,030 --> 00:10:26,800

hoping that more people will understand

280

00:10:30,470 --> 00:10:29,040

the reasoning for that

281

00:10:32,310 --> 00:10:30,480

what i'm interested in talking about

282

00:10:33,590 --> 00:10:32,320

here is the assumed intent of these

283

00:10:35,269 --> 00:10:33,600

packages

284

00:10:37,190 --> 00:10:35,279

in the first article that i read back in

285

00:10:39,190 --> 00:10:37,200

july there were comments from people

286

00:10:40,630 --> 00:10:39,200

speculating that these seeds were sent

287

00:10:43,190 --> 00:10:40,640

by the chinese government

288

00:10:44,630 --> 00:10:43,200

in a deliberate attempt to spread pests

289

00:10:46,230 --> 00:10:44,640

and disease in the u.s

290

00:10:48,150 --> 00:10:46,240

the responses to these comments were

291

00:10:50,069 --> 00:10:48,160

rightfully skeptical pointing out that

292

00:10:52,310 --> 00:10:50,079

there would be much more effective ways

293

00:10:54,069 --> 00:10:52,320

to do that than package up seeds and

294

00:10:56,630 --> 00:10:54,079

label them as jewelry and send them to

295

00:10:58,069 --> 00:10:56,640

some random guy in arkansas

296

00:11:00,069 --> 00:10:58,079

but many of the comments on that

297

00:11:01,670 --> 00:11:00,079

original post were adamant that the

298

00:11:04,310 --> 00:11:01,680

seeds were lemon seeds

299

00:11:06,069 --> 00:11:04,320

and as lemons are harmless the whole

300

00:11:09,190 --> 00:11:06,079

thing is ridiculous and it should

301
00:11:11,190 --> 00:11:09,200
all be dismissed and ignored now to be

302
00:11:12,949 --> 00:11:11,200
fair they probably were lemon seeds

303
00:11:14,870 --> 00:11:12,959
according to the articles that i've read

304
00:11:16,630 --> 00:11:14,880
the packages contain all sorts of common

305
00:11:17,430 --> 00:11:16,640
agricultural seeds that are easy to come

306
00:11:20,630 --> 00:11:17,440
by

307
00:11:22,870 --> 00:11:20,640
but even if they are just lemons

308
00:11:23,990 --> 00:11:22,880
and even if there really is just a

309
00:11:26,069 --> 00:11:24,000
brushing scam

310
00:11:28,949 --> 00:11:26,079
that doesn't mean it's safe we don't

311
00:11:30,870 --> 00:11:28,959
need ill intent or malice to cause harm

312
00:11:33,670 --> 00:11:30,880
apathy and stupidity are perfectly

313
00:11:35,910 --> 00:11:33,680

capable of causing harm on their own

314

00:11:37,670 --> 00:11:35,920

if this is just a brushing scam do you

315

00:11:39,990 --> 00:11:37,680

think the people perpetrating it are

316

00:11:41,350 --> 00:11:40,000

concerned about biosecurity

317

00:11:44,550 --> 00:11:41,360

do you think they're being careful to

318

00:11:45,750 --> 00:11:44,560

only send clean disease-free seeds

319

00:11:47,509 --> 00:11:45,760

do you think they're doing risk

320

00:11:49,590 --> 00:11:47,519

assessments and considering the local

321

00:11:50,230 --> 00:11:49,600

ecosystems at the various destinations

322

00:11:51,910 --> 00:11:50,240

and

323

00:11:53,829 --> 00:11:51,920

making sure that the species of choice

324

00:11:55,430 --> 00:11:53,839

has low potential to become an invasive

325

00:11:57,750 --> 00:11:55,440

pest in that region

326

00:12:00,310 --> 00:11:57,760

or even checking to see if there are

327

00:12:03,509 --> 00:12:00,320

laws regarding the import of unpermitted

328

00:12:05,190 --> 00:12:03,519

plant materials in this new age of

329

00:12:07,030 --> 00:12:05,200

covert 19

330

00:12:09,750 --> 00:12:07,040

where the general public are starting to

331

00:12:11,829 --> 00:12:09,760

understand the need for biosecurity

332

00:12:14,949 --> 00:12:11,839

we're seeing the harm that can be caused

333

00:12:17,190 --> 00:12:14,959

by those who don't take it seriously

334

00:12:18,550 --> 00:12:17,200

and very few of them have malicious

335

00:12:20,790 --> 00:12:18,560

intent

336

00:12:22,870 --> 00:12:20,800

stupidity and unearned confidence are

337

00:12:24,790 --> 00:12:22,880

sufficient to bring whole nations to the

338

00:12:27,190 --> 00:12:24,800

ground in a pandemic

339

00:12:28,629 --> 00:12:27,200

and also sufficient to spread dangerous

340

00:12:31,430 --> 00:12:28,639

seeds and cause harm when

341

00:12:33,430 --> 00:12:31,440

some guy in china wants to boost his

342

00:12:35,430 --> 00:12:33,440

sales rating and some guy in america

343

00:12:37,509 --> 00:12:35,440

wants to grow a mystery pumpkin

344

00:12:38,550 --> 00:12:37,519

neither of them have malicious intent

345

00:12:41,530 --> 00:12:38,560

but also

346

00:12:47,430 --> 00:12:41,540

neither of them understand the risks

347

00:12:49,269 --> 00:12:47,440

[Music]

348

00:12:50,870 --> 00:12:49,279

i'll be keeping an eye out for further

349

00:12:52,790 --> 00:12:50,880

developments on this story

350

00:12:55,110 --> 00:12:52,800

maybe the conspiracy theorists are right

351
00:12:57,430 --> 00:12:55,120
and it's all an elaborate hoax to spread

352
00:12:58,949 --> 00:12:57,440
disease and misfortune in the world but

353
00:13:01,509 --> 00:12:58,959
until i see evidence of this

354
00:13:02,710 --> 00:13:01,519
i'm applying hanlon's razor which states

355
00:13:04,790 --> 00:13:02,720
that you should

356
00:13:20,370 --> 00:13:04,800
never attribute to malice that which is

357
00:13:40,500 --> 00:13:20,380
adequately explained by stupidity

358
00:13:40,510 --> 00:14:00,829
[Music]

359
00:14:25,750 --> 00:14:02,660
ciao

360
00:14:27,430 --> 00:14:25,760
[Music]

361
00:14:29,269 --> 00:14:27,440
now it's time to look once again at the

362
00:14:32,730 --> 00:14:29,279
australian skeptics

363
00:14:34,150 --> 00:14:32,740

newsletter fresh in my inbox

364

00:14:37,730 --> 00:14:34,160

[Music]

365

00:14:42,150 --> 00:14:37,740

and this is newsletter number 104

366

00:14:43,829 --> 00:14:42,160

[Music]

367

00:14:46,710 --> 00:14:43,839

and the first item in the newsletter

368

00:14:49,030 --> 00:14:46,720

skeptic on early bird tickets available

369

00:14:50,310 --> 00:14:49,040

early bird tickets for skeptic on 2020

370

00:14:53,509 --> 00:14:50,320

the australian skeptic's

371

00:14:54,470 --> 00:14:53,519

36th annual convention october the 24th

372

00:14:57,189 --> 00:14:54,480

to the 25th

373

00:14:59,110 --> 00:14:57,199

are now available at reduced prices for

374

00:15:00,870 --> 00:14:59,120

a limited time

375

00:15:02,389 --> 00:15:00,880

the price reflects the fact that this

376

00:15:06,150 --> 00:15:02,399

year's event will be

377

00:15:09,110 --> 00:15:06,160

all online early bird on sale

378

00:15:11,509 --> 00:15:09,120

until the 24th of september with

379

00:15:13,430 --> 00:15:11,519

concession tickets at just 30 dollars

380

00:15:15,670 --> 00:15:13,440

and general tickets at just fifty

381

00:15:16,710 --> 00:15:15,680

dollars the standard ticket price and

382

00:15:19,509 --> 00:15:16,720

this will be

383

00:15:20,629 --> 00:15:19,519

after the 24th of december concession

384

00:15:25,189 --> 00:15:20,639

will be 45

385

00:15:28,790 --> 00:15:27,829

this event will be streamed live on

386

00:15:30,870 --> 00:15:28,800

youtube

387

00:15:32,949 --> 00:15:30,880

we will provide you with details on how

388

00:15:35,189 --> 00:15:32,959

to access the live stream via email

389

00:15:37,590 --> 00:15:35,199

after you purchase your tickets

390

00:15:38,550 --> 00:15:37,600

the usual awards will be announced via

391

00:15:41,350 --> 00:15:38,560

satellite

392

00:15:43,509 --> 00:15:41,360

from a glitzy venue probably richard

393

00:15:46,710 --> 00:15:43,519

saunders lounge room

394

00:15:49,990 --> 00:15:46,720

okay in the meantime speakers

395

00:15:52,949 --> 00:15:50,000

so far include dr alice howarth

396

00:15:54,949 --> 00:15:52,959

dr karl kruselniski michael foley

397

00:15:58,550 --> 00:15:54,959

professor tanya smith

398

00:16:01,829 --> 00:16:00,629

the next item says young men are more

399

00:16:04,870 --> 00:16:01,839

likely to believe

400

00:16:07,189 --> 00:16:04,880

covet 19 myths

401
00:16:08,389 --> 00:16:07,199
if the media are anything to go by you'd

402
00:16:10,790 --> 00:16:08,399
think people who believe

403
00:16:11,910 --> 00:16:10,800
coronavirus myths are white middle-aged

404
00:16:14,949 --> 00:16:11,920
women called

405
00:16:15,829 --> 00:16:14,959
karen but a new study shows a different

406
00:16:17,990 --> 00:16:15,839
picture

407
00:16:21,350 --> 00:16:18,000
university of sydney researchers found

408
00:16:24,150 --> 00:16:21,360
men and people aged 18 to 25

409
00:16:25,189 --> 00:16:24,160
are more likely to believe corona 19

410
00:16:27,430 --> 00:16:25,199
myths

411
00:16:29,990 --> 00:16:27,440
they also found an increase from people

412
00:16:33,269 --> 00:16:30,000
from a non-english speaking background

413
00:16:36,470 --> 00:16:33,279

it looks like kevin has replaced karen

414

00:16:37,030 --> 00:16:36,480

as the stereotype du jour another item

415

00:16:41,389 --> 00:16:37,040

says

416

00:16:44,710 --> 00:16:41,399

new zealand psychic delivers vitamins

417

00:16:47,030 --> 00:16:44,720

vibrationally quite a lengthy item

418

00:16:49,030 --> 00:16:47,040

more than required but it involves

419

00:16:50,550 --> 00:16:49,040

psychic jeanette wilson who the new

420

00:16:53,110 --> 00:16:50,560

zealand skeptics

421

00:16:54,230 --> 00:16:53,120

have been on to as well as susan gerbic

422

00:16:56,710 --> 00:16:54,240

by the way

423

00:16:59,749 --> 00:16:56,720

she is also a psychic surgeon and

424

00:17:02,790 --> 00:16:59,759

promotes anti-vaccination anti-5g

425

00:17:04,789 --> 00:17:02,800

q anon beliefs and recently said

426

00:17:06,549 --> 00:17:04,799

a dietary supplement could prevent

427

00:17:10,630 --> 00:17:06,559

covert 19

428

00:17:13,510 --> 00:17:10,640

so you get the idea business is booming

429

00:17:15,590 --> 00:17:13,520

for new york city psychics new york's

430

00:17:16,470 --> 00:17:15,600

psychics and fortune tellers say they

431

00:17:19,750 --> 00:17:16,480

are seeing

432

00:17:22,870 --> 00:17:19,760

more clients and making more money than

433

00:17:25,750 --> 00:17:22,880

ever before quote

434

00:17:27,829 --> 00:17:25,760

when there's a big change in the world

435

00:17:30,310 --> 00:17:27,839

or more uncertainty in the world

436

00:17:33,750 --> 00:17:30,320

that is when people look for more

437

00:17:36,950 --> 00:17:33,760

certainty and quote psychic betsy lafaye

438

00:17:39,350 --> 00:17:36,960

told the new york post quote

439

00:17:40,230 --> 00:17:39,360

everyone now wants more certainty and

440

00:17:43,029 --> 00:17:40,240

yes

441

00:17:43,750 --> 00:17:43,039

that is when people tend to turn to

442

00:17:50,230 --> 00:17:43,760

psychics

443

00:17:51,270 --> 00:17:50,240

not two words we expected in the same

444

00:17:53,190 --> 00:17:51,280

sentence

445

00:17:55,270 --> 00:17:53,200

and there are more items in this

446

00:17:57,669 --> 00:17:55,280

newsletter to subscribe to the

447

00:18:00,710 --> 00:17:57,679

australian skeptics newsletter yourself

448

00:18:01,830 --> 00:18:00,720

and to receive this in your inbox every

449

00:18:06,310 --> 00:18:01,840

couple of weeks

450

00:18:15,720 --> 00:18:06,320

just head to www.skeptics.com.iu

451
00:18:25,270 --> 00:18:15,730
and sign up

452
00:18:28,870 --> 00:18:25,280
[Music]

453
00:18:32,549 --> 00:18:28,880
appearing at skepticon 2020 professor

454
00:18:34,390 --> 00:18:32,559
tanya smith tanya smith is a professor

455
00:18:36,789 --> 00:18:34,400
in the australian research center for

456
00:18:38,950 --> 00:18:36,799
human evolution and the griffith center

457
00:18:42,070 --> 00:18:38,960
for social and cultural research

458
00:18:45,110 --> 00:18:42,080
at griffith university and

459
00:18:47,750 --> 00:18:45,120
she is passionate about teeth

460
00:18:49,990 --> 00:18:47,760
teeth preserved for millions of years

461
00:18:50,630 --> 00:18:50,000
remarkably faithful records of daily

462
00:18:53,110 --> 00:18:50,640
growth

463
00:18:55,029 --> 00:18:53,120

and infant diet as well as stress

464

00:18:57,590 --> 00:18:55,039

experienced during birth

465

00:18:58,470 --> 00:18:57,600

her aim is to understand fully how teeth

466

00:19:01,750 --> 00:18:58,480

grow

467

00:19:03,110 --> 00:19:01,760

why they vary and how this information

468

00:19:06,470 --> 00:19:03,120

can advance the field

469

00:19:09,110 --> 00:19:06,480

of human evolutionary biology topics

470

00:19:10,789 --> 00:19:09,120

she elaborates on in her popular science

471

00:19:14,150 --> 00:19:10,799

book the tale

472

00:19:18,710 --> 00:19:14,160

teeth tell published by mit press

473

00:19:19,510 --> 00:19:18,720

in 2018 tanya has previously held a

474

00:19:22,150 --> 00:19:19,520

professorship

475

00:19:23,990 --> 00:19:22,160

at harvard university and fellowships at

476

00:19:27,029 --> 00:19:24,000

the radcliffe institute for advanced

477

00:19:28,070 --> 00:19:27,039

study and the max planck institute for

478

00:19:30,470 --> 00:19:28,080

evolutionary

479

00:19:32,310 --> 00:19:30,480

anthropology her research has been

480

00:19:33,190 --> 00:19:32,320

funded by the australian academy of

481

00:19:36,150 --> 00:19:33,200

sciences

482

00:19:36,549 --> 00:19:36,160

and the u.s national science foundation

483

00:19:39,430 --> 00:19:36,559

and

484

00:19:41,430 --> 00:19:39,440

published in nature proceedings of the

485

00:19:44,950 --> 00:19:41,440

national academy of sciences

486

00:19:46,870 --> 00:19:44,960

and science advances professor

487

00:19:48,470 --> 00:19:46,880

tanya smith just one of the speakers

488

00:19:51,190 --> 00:19:48,480

appearing at skepticon

489

00:19:53,430 --> 00:19:51,200

2020 the australian skeptics national

490

00:19:57,950 --> 00:19:53,440

convention

491

00:20:07,890 --> 00:19:59,510

www.skepticon.org

492

00:20:07,900 --> 00:20:18,830

[Music]

493

00:20:18,840 --> 00:20:25,430

do

494

00:20:30,470 --> 00:20:26,950

logical fallacies

495

00:20:33,270 --> 00:20:30,480

[Music]

496

00:20:35,110 --> 00:20:33,280

what are logical fallacies and why is it

497

00:20:37,750 --> 00:20:35,120

important that critical thinkers should

498

00:20:40,070 --> 00:20:37,760

know about them

499

00:20:41,750 --> 00:20:40,080

a logical fallacy is an error we can

500

00:20:43,750 --> 00:20:41,760

make in reasoning

501
00:20:48,149 --> 00:20:43,760
but it usually crops up when we are

502
00:20:50,230 --> 00:20:48,159
discussing or arguing our point of view

503
00:20:52,470 --> 00:20:50,240
some people might even knowingly use

504
00:20:53,350 --> 00:20:52,480
them to try and score cheap points in an

505
00:20:56,630 --> 00:20:53,360
argument

506
00:20:59,190 --> 00:20:56,640
due to intellectual laziness

507
00:21:01,029 --> 00:20:59,200
they are traps we can fall into but if

508
00:21:03,110 --> 00:21:01,039
we know what to look out for

509
00:21:09,110 --> 00:21:03,120
we can spot them when they occur and

510
00:21:14,070 --> 00:21:11,590
this time we'll look at the texas

511
00:21:17,510 --> 00:21:14,080
sharpshooter fallacy

512
00:21:20,149 --> 00:21:17,520
also known as the clustering illusion

513
00:21:21,430 --> 00:21:20,159

this is when you downplay or ignore

514

00:21:23,510 --> 00:21:21,440

information that

515

00:21:24,789 --> 00:21:23,520

doesn't support your argument or point

516

00:21:27,350 --> 00:21:24,799

of view and

517

00:21:28,470 --> 00:21:27,360

focus on information that seems to be

518

00:21:31,430 --> 00:21:28,480

more in line

519

00:21:32,230 --> 00:21:31,440

with what you want to be true it is also

520

00:21:36,230 --> 00:21:32,240

imposing

521

00:21:37,350 --> 00:21:36,240

meaning onto randomness this must surely

522

00:21:39,669 --> 00:21:37,360

be one of the more

523

00:21:41,190 --> 00:21:39,679

interesting names for any logical

524

00:21:43,990 --> 00:21:41,200

fallacy

525

00:21:44,789 --> 00:21:44,000

it comes about from the idea that

526
00:21:48,149 --> 00:21:44,799
someone would

527
00:21:49,110 --> 00:21:48,159
shoot at random at the side of a barn or

528
00:21:52,230 --> 00:21:49,120
fence

529
00:21:54,710 --> 00:21:52,240
then paint a target on later

530
00:21:56,789 --> 00:21:54,720
around the bullet holes that happen to

531
00:21:59,430 --> 00:21:56,799
be close together

532
00:22:01,110 --> 00:21:59,440
to make it appear as if the shots were

533
00:22:05,029 --> 00:22:01,120
on target

534
00:22:08,310 --> 00:22:05,039
in 1555 the prophet nostradamus

535
00:22:11,590 --> 00:22:08,320
4 saw the coronavirus plague of

536
00:22:14,630 --> 00:22:11,600
2020 he wrote in century 2

537
00:22:15,830 --> 00:22:14,640
quatrain 35 the great plague of the

538
00:22:18,950 --> 00:22:15,840

maritime city

539

00:22:21,990 --> 00:22:18,960

will not cease until there be avenged

540

00:22:23,909 --> 00:22:22,000

the death of the just blood condemned

541

00:22:27,669 --> 00:22:23,919

for the price without crime

542

00:22:29,590 --> 00:22:27,679

of the great lady unwronged by pretence

543

00:22:30,710 --> 00:22:29,600

finding meaning in the quatrains of

544

00:22:35,270 --> 00:22:30,720

nostradamus

545

00:22:36,470 --> 00:22:35,280

is an old game since he wrote 942 of

546

00:22:40,149 --> 00:22:36,480

them

547

00:22:42,950 --> 00:22:40,159

interpretation

548

00:22:45,750 --> 00:22:42,960

and even mistranslation from the french

549

00:22:48,310 --> 00:22:45,760

used in the 16th century

550

00:22:49,350 --> 00:22:48,320

it's really not that hard to find at

551
00:22:53,029 --> 00:22:49,360
least one

552
00:22:54,870 --> 00:22:53,039
or even more you can make fit events of

553
00:22:58,710 --> 00:22:54,880
more recent times

554
00:23:01,029 --> 00:22:58,720
or at any time since they were written

555
00:23:04,470 --> 00:23:01,039
just look for the lines that seem to fit

556
00:23:07,990 --> 00:23:04,480
and ignore the ones that don't

557
00:23:11,270 --> 00:23:08,000
much of this quatrain the maritime city

558
00:23:14,470 --> 00:23:11,280
the lady unwronged are ignored

559
00:23:15,070 --> 00:23:14,480
this same quatrain has also been used to

560
00:23:17,830 --> 00:23:15,080
claim

561
00:23:21,510 --> 00:23:17,840
nostradamus foresaw the great plague of

562
00:23:23,990 --> 00:23:21,520
london in 1665.

563
00:23:25,110 --> 00:23:24,000

if you'd like to know more there is an

564

00:23:27,990 --> 00:23:25,120

excellent book

565

00:23:30,470 --> 00:23:28,000

called the mask of nostradamus written

566

00:23:33,270 --> 00:23:30,480

by james randy

567

00:23:35,110 --> 00:23:33,280

when tested the water diviner found

568

00:23:37,990 --> 00:23:35,120

three bottles of water

569

00:23:38,549 --> 00:23:38,000

that were hidden from view one after the

570

00:23:45,590 --> 00:23:38,559

other

571

00:23:49,029 --> 00:23:45,600

and points to water divining being real

572

00:23:51,269 --> 00:23:49,039

this can and does happen during tests of

573

00:23:53,669 --> 00:23:51,279

water divining

574

00:23:56,230 --> 00:23:53,679

but short runs of success are expected

575

00:23:59,190 --> 00:23:56,240

when conducting many tests

576
00:23:59,830 --> 00:23:59,200
it also happens in casinos when someone

577
00:24:02,870 --> 00:23:59,840
might get

578
00:24:06,950 --> 00:24:02,880
lucky on the roulette table two

579
00:24:09,990 --> 00:24:06,960
or three or even four times in a row

580
00:24:11,909 --> 00:24:10,000
but overall we all know the house wins

581
00:24:14,630 --> 00:24:11,919
in the end

582
00:24:16,310 --> 00:24:14,640
we need to take all the results into

583
00:24:19,590 --> 00:24:16,320
account before we can

584
00:24:23,190 --> 00:24:19,600
reach a real conclusion it's

585
00:24:24,149 --> 00:24:23,200
just so strange that bad things seem to

586
00:24:27,909 --> 00:24:24,159
happen to me in

587
00:24:31,510 --> 00:24:27,919
threes first i lost my job

588
00:24:33,110 --> 00:24:31,520

then my dog got sick and now the tv

589

00:24:35,669 --> 00:24:33,120

won't work

590

00:24:36,470 --> 00:24:35,679

good and bad things happen from time to

591

00:24:40,549 --> 00:24:36,480

time

592

00:24:42,870 --> 00:24:40,559

and both can be random since many people

593

00:24:44,149 --> 00:24:42,880

have already heard the saying bad things

594

00:24:47,750 --> 00:24:44,159

come in threes

595

00:24:51,590 --> 00:24:47,760

or even famous people die in threes

596

00:24:52,789 --> 00:24:51,600

and so on it's all too easy for us to

597

00:24:55,830 --> 00:24:52,799

see a pattern

598

00:24:58,950 --> 00:24:55,840

after three such events

599

00:25:01,470 --> 00:24:58,960

ah but what if bad things

600

00:25:03,909 --> 00:25:01,480

come in fours or fives

601
00:25:06,149 --> 00:25:03,919

[Music]

602
00:25:07,830 --> 00:25:06,159

looking for things that seem to line up

603
00:25:10,950 --> 00:25:07,840

is all very well

604
00:25:13,110 --> 00:25:10,960

but you need to also take into account

605
00:25:14,950 --> 00:25:13,120

all the related things or events that

606
00:25:17,590 --> 00:25:14,960

don't line up

607
00:25:19,430 --> 00:25:17,600

as they too must be considered in the

608
00:25:26,149 --> 00:25:19,440

overall pattern of events

609
00:25:30,870 --> 00:25:28,310

knowing a logical fallacy when you hear

610
00:25:33,110 --> 00:25:30,880

one and even knowing its name

611
00:25:34,470 --> 00:25:33,120

is important when arguing your point of

612
00:25:37,909 --> 00:25:34,480

view

613
00:25:40,310 --> 00:25:37,919

however you may come across as arrogant

614

00:25:41,110 --> 00:25:40,320

and not get very far if you call it out

615

00:25:43,510 --> 00:25:41,120

by name

616

00:25:45,590 --> 00:25:43,520

to your opponent when you hear it being

617

00:25:48,070 --> 00:25:45,600

used

618

00:25:48,870 --> 00:25:48,080

if your opponent calls you out for using

619

00:25:51,110 --> 00:25:48,880

one

620

00:25:54,230 --> 00:25:51,120

it's time to stop and think about how

621

00:25:56,310 --> 00:25:54,240

you are making your case

622

00:25:57,510 --> 00:25:56,320

use your knowledge of logical fallacies

623

00:26:00,310 --> 00:25:57,520

wisely

624

00:26:01,510 --> 00:26:00,320

and remember that even if your point of

625

00:26:03,830 --> 00:26:01,520

view is right

626
00:26:05,190 --> 00:26:03,840
and you know all the pitfalls in arguing

627
00:26:07,590 --> 00:26:05,200
your case

628
00:26:08,789 --> 00:26:07,600
it doesn't always mean you'll win on the

629
00:26:12,070 --> 00:26:08,799
day

630
00:26:14,660 --> 00:26:12,080
and as skeptics we must also remember

631
00:26:17,669 --> 00:26:14,670
that we too can be wrong at times

632
00:26:19,430 --> 00:26:17,679
[Music]

633
00:26:28,390 --> 00:26:19,440
i'm michelle bickersma from the vic

634
00:26:28,400 --> 00:26:35,590
[Music]

635
00:26:38,870 --> 00:26:37,029
i started listening to ono ross and

636
00:27:46,549 --> 00:26:38,880
carrie shortly after i broke my arm

637
00:27:51,110 --> 00:27:49,669
thank you gary

638
00:27:52,389 --> 00:27:51,120

owner ross and carey is just a podcast

639

00:27:53,510 --> 00:27:52,399

it doesn't do anything it's just sounds

640

00:28:04,940 --> 00:27:53,520

you listen to in your ears all these

641

00:28:10,549 --> 00:28:08,310

[Music]

642

00:28:11,750 --> 00:28:10,559

now it's time to dive once again into

643

00:28:13,430 --> 00:28:11,760

the back issues

644

00:28:15,190 --> 00:28:13,440

of the skeptic the journal from

645

00:28:17,350 --> 00:28:15,200

australian skeptics

646

00:28:18,830 --> 00:28:17,360

and this time we're going all the way

647

00:28:22,710 --> 00:28:18,840

back to

648

00:28:25,350 --> 00:28:22,720

1990 volume 10 number two

649

00:28:27,350 --> 00:28:25,360

and on page seven we discover a uh

650

00:28:29,350 --> 00:28:27,360

report by tim mandom

651
00:28:31,669 --> 00:28:29,360
the current editor of the skeptic

652
00:28:33,830 --> 00:28:31,679
magazine and one of our reporters here

653
00:28:41,029 --> 00:28:33,840
on the skeptic zone

654
00:28:45,350 --> 00:28:44,470
an exhibition entitled bible prophecy

655
00:28:47,430 --> 00:28:45,360
display

656
00:28:48,630 --> 00:28:47,440
held at the sydney town hall on april

657
00:28:51,669 --> 00:28:48,640
19th to

658
00:28:52,470 --> 00:28:51,679
the 21st proved an irresistible

659
00:28:54,630 --> 00:28:52,480
temptation

660
00:28:57,269 --> 00:28:54,640
especially in the view of the articles

661
00:29:00,310 --> 00:28:57,279
in this and previous issues

662
00:29:01,350 --> 00:29:00,320
taking a skeptical approach to the same

663
00:29:04,789 --> 00:29:01,360

subject

664

00:29:07,350 --> 00:29:04,799

organized by the sydney revival center

665

00:29:08,230 --> 00:29:07,360

the displays covered such current items

666

00:29:11,430 --> 00:29:08,240

of interest

667

00:29:11,990 --> 00:29:11,440

as the greenhouse effect the fall of the

668

00:29:15,510 --> 00:29:12,000

berlin

669

00:29:17,590 --> 00:29:15,520

wall pollution and soil erosion

670

00:29:19,029 --> 00:29:17,600

as well as older favorites like the

671

00:29:21,830 --> 00:29:19,039

state of israel

672

00:29:23,430 --> 00:29:21,840

the russian threat the british throne is

673

00:29:26,149 --> 00:29:23,440

direct descendant of

674

00:29:27,590 --> 00:29:26,159

the throne of david and the great

675

00:29:29,590 --> 00:29:27,600

pyramid

676

00:29:30,870 --> 00:29:29,600

this latter subject seemed to have

677

00:29:33,990 --> 00:29:30,880

little relevance to

678

00:29:36,549 --> 00:29:34,000

biblical study but rather concentrated

679

00:29:38,789 --> 00:29:36,559

on how clever the egyptians were to have

680

00:29:39,590 --> 00:29:38,799

built the pyramid in the first place

681

00:29:42,950 --> 00:29:39,600

aligned

682

00:29:46,310 --> 00:29:42,960

as it supposedly is with

683

00:29:48,549 --> 00:29:46,320

every real or imagined line of longitude

684

00:29:50,789 --> 00:29:48,559

and latitude of significance

685

00:29:51,750 --> 00:29:50,799

as this display was based on the now

686

00:29:54,710 --> 00:29:51,760

discounted

687

00:29:55,590 --> 00:29:54,720

theories of piazzzi smythe there seemed

688

00:29:58,710 --> 00:29:55,600

little point

689

00:30:01,269 --> 00:29:58,720

in including it nevertheless truth

690

00:30:03,110 --> 00:30:01,279

and relevance did not seem to be of

691

00:30:05,029 --> 00:30:03,120

great concern to the organizers

692

00:30:06,149 --> 00:30:05,039

who obviously preferred simplistic

693

00:30:09,750 --> 00:30:06,159

observations

694

00:30:12,789 --> 00:30:09,760

and fear tactics as weapons in the war

695

00:30:15,669 --> 00:30:12,799

to win converts one of the

696

00:30:17,590 --> 00:30:15,679

silliest displays was the amazing

697

00:30:21,190 --> 00:30:17,600

revelation that australia

698

00:30:24,549 --> 00:30:21,200

is mentioned in the bible behold

699

00:30:26,310 --> 00:30:24,559

these shall come from far and low these

700

00:30:28,549 --> 00:30:26,320

from the north and west

701
00:30:30,310 --> 00:30:28,559
and these from the land of terror

702
00:30:34,310 --> 00:30:30,320
australis

703
00:30:37,430 --> 00:30:34,320
isaiah 49 12 while admitting that

704
00:30:40,950 --> 00:30:37,440
terror astralis is not actually in the

705
00:30:42,950 --> 00:30:40,960
english language version but is rather

706
00:30:46,149 --> 00:30:42,960
lifted from the vulgate latin

707
00:30:47,510 --> 00:30:46,159
of sin jerome the organizers see this as

708
00:30:51,110 --> 00:30:47,520
further proof

709
00:30:54,149 --> 00:30:51,120
of the bible's in heresy the facts

710
00:30:55,750 --> 00:30:54,159
that the old testament wasn't written in

711
00:30:57,990 --> 00:30:55,760
latin originally

712
00:30:59,990 --> 00:30:58,000
that australia was first called new

713
00:31:02,789 --> 00:31:00,000

holland by europeans

714

00:31:04,630 --> 00:31:02,799

and a correct translation of the quotas

715

00:31:07,590 --> 00:31:04,640

used in the exhibition

716

00:31:10,149 --> 00:31:07,600

would be the meaningless from the land

717

00:31:12,950 --> 00:31:10,159

of the land of the south

718

00:31:14,789 --> 00:31:12,960

and that the new international version

719

00:31:18,070 --> 00:31:14,799

of the bible translates

720

00:31:21,269 --> 00:31:18,080

terror australis as being

721

00:31:24,230 --> 00:31:21,279

the region of aswan in southern egypt

722

00:31:25,190 --> 00:31:24,240

and therefore a long way from australia

723

00:31:27,990 --> 00:31:25,200

seem to have

724

00:31:29,110 --> 00:31:28,000

escaped the organizers still the local

725

00:31:31,990 --> 00:31:29,120

touch no matter how

726
00:31:33,350 --> 00:31:32,000
nonsensical always works well with the

727
00:31:36,549 --> 00:31:33,360
visitors

728
00:31:41,029 --> 00:31:36,559
just as silly was the long diatribe

729
00:31:42,789 --> 00:31:41,039
circa 1899 on the numerical coincidences

730
00:31:45,990 --> 00:31:42,799
of the bible

731
00:31:49,669 --> 00:31:46,000
this style of numerological legitimate

732
00:31:52,630 --> 00:31:49,679
has no value at all being equally

733
00:31:53,029 --> 00:31:52,640
easily carried out on any work of length

734
00:31:55,509 --> 00:31:53,039
and

735
00:31:56,789 --> 00:31:55,519
even on something as simple as your own

736
00:31:58,470 --> 00:31:56,799
name

737
00:31:59,830 --> 00:31:58,480
from the exhibitor's point of view

738
00:32:03,269 --> 00:31:59,840

coincidence

739

00:32:06,310 --> 00:32:03,279

often contrived equals fact

740

00:32:08,310 --> 00:32:06,320

the meaning of life is 42.

741

00:32:10,149 --> 00:32:08,320

many of the other displays covered in

742

00:32:12,870 --> 00:32:10,159

the exhibition referred to

743

00:32:13,509 --> 00:32:12,880

prophecies dealt with by colin groves at

744

00:32:18,149 --> 00:32:13,519

al

745

00:32:19,830 --> 00:32:18,159

you want to read

746

00:32:21,509 --> 00:32:19,840

this journal of course it's free to

747

00:32:24,549 --> 00:32:21,519

download and there are many

748

00:32:27,990 --> 00:32:24,559

very interesting items in this copy

749

00:32:31,430 --> 00:32:28,000

in this issue about prophecy we read on

750

00:32:34,470 --> 00:32:31,440

what was most disturbing was an almost

751
00:32:35,269 --> 00:32:34,480
gleeful approach as one disaster after

752
00:32:38,310 --> 00:32:35,279
another

753
00:32:39,029 --> 00:32:38,320
earthquakes famine war plagues etc were

754
00:32:42,389 --> 00:32:39,039
listed

755
00:32:45,830 --> 00:32:42,399
all of course indicating the approaching

756
00:32:47,830 --> 00:32:45,840
final days it seemed that the organizers

757
00:32:49,830 --> 00:32:47,840
could hardly wait for the end

758
00:32:51,430 --> 00:32:49,840
regardless of the suffering imposed on

759
00:32:53,990 --> 00:32:51,440
their fellow humans

760
00:32:55,110 --> 00:32:54,000
not to mention other forms of flora and

761
00:32:57,350 --> 00:32:55,120
fauna

762
00:32:58,310 --> 00:32:57,360
the greatest toll from an earthquake in

763
00:33:00,950 --> 00:32:58,320

historic times

764

00:33:01,990 --> 00:33:00,960

probably took place over 400 years ago

765

00:33:04,549 --> 00:33:02,000

in china

766

00:33:06,549 --> 00:33:04,559

the greatest volcanic explosion over

767

00:33:08,950 --> 00:33:06,559

3000 years ago

768

00:33:11,029 --> 00:33:08,960

and the worst plague was the black death

769

00:33:14,789 --> 00:33:11,039

of 1347

770

00:33:17,269 --> 00:33:14,799

to 1351 in fact there is no evidence

771

00:33:19,350 --> 00:33:17,279

that natural disasters are increasing

772

00:33:20,870 --> 00:33:19,360

or getting worse it is just that our

773

00:33:23,990 --> 00:33:20,880

communications are better

774

00:33:25,669 --> 00:33:24,000

and we know about more

775

00:33:27,190 --> 00:33:25,679

this doesn't bother the organizers

776

00:33:30,470 --> 00:33:27,200

either who equate the

777

00:33:33,430 --> 00:33:30,480

newcastle earthquake small by world

778

00:33:35,029 --> 00:33:33,440

disaster standards with the worst of

779

00:33:37,269 --> 00:33:35,039

recorded history

780

00:33:38,149 --> 00:33:37,279

a total lack of historical perspective

781

00:33:41,830 --> 00:33:38,159

is evident

782

00:33:45,190 --> 00:33:41,840

in every utterance of those espousing a

783

00:33:47,269 --> 00:33:45,200

final days scenario rather than

784

00:33:49,350 --> 00:33:47,279

thoughtful prophecies these are

785

00:33:52,310 --> 00:33:49,360

fear-mongering bogeymen

786

00:33:54,630 --> 00:33:52,320

we may ask therefore what value are

787

00:33:57,190 --> 00:33:54,640

converts created from fear

788

00:34:00,280 --> 00:33:57,200

rather than the love which is supposed

789

00:34:03,909 --> 00:34:00,290

to be the basis of christianity

790

00:34:06,149 --> 00:34:03,919

[Music]

791

00:34:08,790 --> 00:34:06,159

and again that report comes to us from

792

00:34:10,230 --> 00:34:08,800

the year 1990 written by tim mendenham

793

00:34:16,149 --> 00:34:10,240

in the pages of the skeptic

794

00:34:19,990 --> 00:34:18,389

yes it's great fun to look through all

795

00:34:20,710 --> 00:34:20,000

these back issues you never know what

796

00:34:24,069 --> 00:34:20,720

you're going to

797

00:34:27,829 --> 00:34:24,079

find and now we jump to

798

00:34:32,069 --> 00:34:27,839

spring of 1991

799

00:34:35,109 --> 00:34:32,079

and this is volume 11 number three

800

00:34:36,629 --> 00:34:35,119

and an item written by the late the late

801

00:34:38,230 --> 00:34:36,639

great barry williams

802

00:34:39,990 --> 00:34:38,240

stole to the australian skeptics for

803

00:34:48,629 --> 00:34:40,000

many years

804

00:34:52,069 --> 00:34:48,639

paranormal claims what if

805

00:34:53,669 --> 00:34:52,079

skeptics often lament that an in-depth

806

00:34:55,270 --> 00:34:53,679

knowledge of science is required to

807

00:34:57,910 --> 00:34:55,280

refute the claims made by

808

00:35:00,470 --> 00:34:57,920

proponents of extraordinary claims in

809

00:35:04,150 --> 00:35:00,480

some cases this may well be true

810

00:35:05,349 --> 00:35:04,160

does the epr paradox allow for action at

811

00:35:07,750 --> 00:35:05,359

a distance

812

00:35:09,190 --> 00:35:07,760

and thus legitimize the claims for

813

00:35:11,829 --> 00:35:09,200

psychokinesis

814

00:35:13,150 --> 00:35:11,839

but in general the majority of claims

815

00:35:16,310 --> 00:35:13,160

that we

816

00:35:18,470 --> 00:35:16,320

non-scientist skeptics come across can

817

00:35:19,430 --> 00:35:18,480

be tested by the application of common

818

00:35:22,150 --> 00:35:19,440

sense

819

00:35:22,630 --> 00:35:22,160

and the rules of logic a useful rule of

820

00:35:25,829 --> 00:35:22,640

thumb

821

00:35:29,349 --> 00:35:25,839

is if it sounds like crap

822

00:35:30,310 --> 00:35:29,359

it probably is one method a skeptic can

823

00:35:33,190 --> 00:35:30,320

use to test

824

00:35:34,710 --> 00:35:33,200

the unlikely truth of a claim without

825

00:35:37,030 --> 00:35:34,720

going to the trouble of setting up

826

00:35:39,750 --> 00:35:37,040

controlled double-blind tests

827

00:35:42,710 --> 00:35:39,760

or any of the other rigorous methods

828

00:35:45,430 --> 00:35:42,720

used in testing a scientific hypothesis

829

00:35:46,470 --> 00:35:45,440

is to make the assumption that the claim

830

00:35:48,950 --> 00:35:46,480

is true

831

00:35:51,190 --> 00:35:48,960

having made this assumption we can make

832

00:35:54,390 --> 00:35:51,200

logical extrapolations

833

00:35:55,349 --> 00:35:54,400

based on it and see how the world that

834

00:35:58,069 --> 00:35:55,359

is allowed by

835

00:35:59,349 --> 00:35:58,079

our assumption agrees with the world in

836

00:36:03,109 --> 00:35:59,359

which we live

837

00:36:05,349 --> 00:36:03,119

this is of course not an infallible test

838

00:36:06,150 --> 00:36:05,359

many quantum claims for instance are

839

00:36:08,870 --> 00:36:06,160

certainly

840

00:36:11,109 --> 00:36:08,880

counter intuitive and sound most

841

00:36:13,750 --> 00:36:11,119

peculiar to the lay skeptic

842

00:36:14,630 --> 00:36:13,760

and to not a few scientists too i

843

00:36:17,270 --> 00:36:14,640

suspect

844

00:36:19,270 --> 00:36:17,280

but it is a useful test for many

845

00:36:21,270 --> 00:36:19,280

everyday claims

846

00:36:22,710 --> 00:36:21,280

here we look at the world in which

847

00:36:26,230 --> 00:36:22,720

homeopathy

848

00:36:29,109 --> 00:36:26,240

century

849

00:36:29,750 --> 00:36:29,119

invention of the german physician samuel

850

00:36:32,950 --> 00:36:29,760

hellermann

851
00:36:33,990 --> 00:36:32,960
its fundamental tenants are that like cu

852
00:36:36,230 --> 00:36:34,000
is like

853
00:36:37,190 --> 00:36:36,240
and that infinitesimal doses of a

854
00:36:40,550 --> 00:36:37,200
substance are

855
00:36:41,510 --> 00:36:40,560
therapeutic that is that small amounts

856
00:36:43,510 --> 00:36:41,520
of a substance

857
00:36:45,829 --> 00:36:43,520
which produce similar symptoms to a

858
00:36:48,470 --> 00:36:45,839
disease will rally the body's natural

859
00:36:51,349 --> 00:36:48,480
defenses to combat the disease

860
00:36:52,950 --> 00:36:51,359
in its time before we had developed the

861
00:36:55,910 --> 00:36:52,960
germ theory of disease

862
00:36:57,510 --> 00:36:55,920
it was not an unreasonable proposition

863
00:37:00,470 --> 00:36:57,520

but it can now be seen

864

00:37:01,990 --> 00:37:00,480

as an unscientific proposition in some

865

00:37:05,270 --> 00:37:02,000

ways parallel to

866

00:37:06,630 --> 00:37:05,280

immunization its failure lay in the fact

867

00:37:09,670 --> 00:37:06,640

that it sought to address

868

00:37:11,589 --> 00:37:09,680

disease through its symptoms and not as

869

00:37:13,750 --> 00:37:11,599

is the case with immunization

870

00:37:15,990 --> 00:37:13,760

through its causes the key to

871

00:37:17,349 --> 00:37:16,000

understanding homeopathic nostrums lies

872

00:37:20,950 --> 00:37:17,359

in the extreme

873

00:37:23,270 --> 00:37:20,960

dilution of the active agent

874

00:37:24,310 --> 00:37:23,280

homeopathy has it that the more dilute

875

00:37:27,510 --> 00:37:24,320

the substance

876

00:37:30,150 --> 00:37:27,520

the more certain the cure as an example

877

00:37:32,470 --> 00:37:30,160

one milliliter of the active agent

878

00:37:33,589 --> 00:37:32,480

might be added to 10 liters of distilled

879

00:37:35,990 --> 00:37:33,599

water

880

00:37:36,870 --> 00:37:36,000

the resultant mixture is then agitated

881

00:37:39,750 --> 00:37:36,880

and one

882

00:37:42,310 --> 00:37:39,760

milliliter of this dilute solution is

883

00:37:44,630 --> 00:37:42,320

added to a further 10 liters of water

884

00:37:45,589 --> 00:37:44,640

and so on until the prescribed level of

885

00:37:48,630 --> 00:37:45,599

dilution is

886

00:37:49,510 --> 00:37:48,640

reached it is obvious that after a few

887

00:37:51,510 --> 00:37:49,520

dilutions

888

00:37:52,550 --> 00:37:51,520

we reach a stage where it is

889

00:37:55,990 --> 00:37:52,560

statistically

890

00:37:56,470 --> 00:37:56,000

very improbable that any molecule of the

891

00:37:59,670 --> 00:37:56,480

active

892

00:38:02,310 --> 00:37:59,680

agent will be found in any dose of the

893

00:38:03,990 --> 00:38:02,320

medicine this is not a problem to the

894

00:38:05,990 --> 00:38:04,000

dedicated homeopath

895

00:38:07,270 --> 00:38:06,000

as the cure comes not from the

896

00:38:10,550 --> 00:38:07,280

ingredient

897

00:38:12,870 --> 00:38:10,560

but from some energetic memory

898

00:38:13,670 --> 00:38:12,880

contained in the water and imprinted

899

00:38:16,310 --> 00:38:13,680

therein

900

00:38:17,829 --> 00:38:16,320

by the agitation during the dilution

901
00:38:20,470 --> 00:38:17,839
process

902
00:38:21,430 --> 00:38:20,480
it is probably superfluous to say that

903
00:38:23,349 --> 00:38:21,440
there is

904
00:38:24,470 --> 00:38:23,359
not a great deal of evidence for this

905
00:38:26,470 --> 00:38:24,480
proposition

906
00:38:29,030 --> 00:38:26,480
nor is there a body of evidence to

907
00:38:31,430 --> 00:38:29,040
suggest that homeopathy has a great

908
00:38:32,870 --> 00:38:31,440
influence on the eradication of any

909
00:38:35,190 --> 00:38:32,880
major disease

910
00:38:36,150 --> 00:38:35,200
however that is not the purpose of this

911
00:38:39,190 --> 00:38:36,160
article

912
00:38:42,470 --> 00:38:39,200
we are considering a world

913
00:38:45,589 --> 00:38:42,480

h world in which homeopathy

914

00:38:47,750 --> 00:38:45,599

is true let me be blunt

915

00:38:49,510 --> 00:38:47,760

a world in which one of the fundamental

916

00:38:52,790 --> 00:38:49,520

tenets of homeopathy

917

00:38:56,390 --> 00:38:52,800

the diluter the better is true

918

00:38:57,030 --> 00:38:56,400

is a world devoid of life the problem

919

00:39:00,069 --> 00:38:57,040

for life

920

00:39:02,470 --> 00:39:00,079

lies not in the homeopathically active

921

00:39:04,630 --> 00:39:02,480

ingredients but in the water in which

922

00:39:06,870 --> 00:39:04,640

these ingredients are diluted

923

00:39:08,390 --> 00:39:06,880

the water on our planet has been around

924

00:39:11,030 --> 00:39:08,400

for a long time

925

00:39:11,829 --> 00:39:11,040

and during that time it has been in

926
00:39:14,790 --> 00:39:11,839
contact with

927
00:39:17,349 --> 00:39:14,800
every element every compound indeed

928
00:39:19,910 --> 00:39:17,359
every substance that exists on the earth

929
00:39:21,910 --> 00:39:19,920
the fresh water we drink comes from rain

930
00:39:22,710 --> 00:39:21,920
which comes from evaporation from the

931
00:39:28,790 --> 00:39:22,720
oceans

932
00:39:31,750 --> 00:39:28,800
so the memory of everything in them must

933
00:39:35,190 --> 00:39:31,760
be imprinted on the water molecules

934
00:39:36,870 --> 00:39:35,200
storms add a bit more agitation sodas

935
00:39:38,390 --> 00:39:36,880
hitting the ground and rushing down

936
00:39:40,630 --> 00:39:38,400
rivers and streams

937
00:39:41,589 --> 00:39:40,640
just consider a few of the substances

938
00:39:44,550 --> 00:39:41,599

whose

939

00:39:45,510 --> 00:39:44,560

vibrations will be imprinted on inimical

940

00:39:49,270 --> 00:39:45,520

to health

941

00:39:53,109 --> 00:39:49,280

and well-being or indeed to life itself

942

00:39:56,390 --> 00:39:53,119

plutonium arsenic radium

943

00:40:00,630 --> 00:39:56,400

hydrogen cyanide botulinus toxin

944

00:40:03,589 --> 00:40:00,640

cholera bacteria mercury carbon monoxide

945

00:40:04,470 --> 00:40:03,599

the list is almost endless and very

946

00:40:06,630 --> 00:40:04,480

nasty

947

00:40:08,230 --> 00:40:06,640

no matter what beneficial homeopathic

948

00:40:10,870 --> 00:40:08,240

agent was diluted with this

949

00:40:11,910 --> 00:40:10,880

water its benefits would surely be

950

00:40:15,829 --> 00:40:11,920

outweighed by the

951
00:40:18,309 --> 00:40:15,839
nastiness already imprinted on the water

952
00:40:19,750 --> 00:40:18,319
traces of these things probably do exist

953
00:40:23,109 --> 00:40:19,760
in the water we drink

954
00:40:24,069 --> 00:40:23,119
in our mundane world but at a level that

955
00:40:27,510 --> 00:40:24,079
is regarded as

956
00:40:30,790 --> 00:40:27,520
safe and if we are reasonably careful

957
00:40:33,990 --> 00:40:30,800
they do not cause us any great harm in

958
00:40:35,109 --> 00:40:34,000
h-world they all exist in every drop of

959
00:40:38,069 --> 00:40:35,119
water we drink

960
00:40:40,630 --> 00:40:38,079
or at least the memory of them exists

961
00:40:42,790 --> 00:40:40,640
and the more we try to purify the water

962
00:40:43,670 --> 00:40:42,800
the more certain their inimical effects

963
00:40:46,870 --> 00:40:43,680

will be

964

00:40:47,990 --> 00:40:46,880

there can be no safe level at all in

965

00:40:52,069 --> 00:40:48,000

this world

966

00:40:52,550 --> 00:40:52,079

unless perhaps it lies in huge doses in

967

00:40:54,950 --> 00:40:52,560

fact

968

00:40:55,990 --> 00:40:54,960

following the homeopathic reasoning the

969

00:40:59,349 --> 00:40:56,000

more of anything

970

00:41:02,390 --> 00:40:59,359

one ingests the less harm it should do

971

00:41:05,030 --> 00:41:02,400

the treatment we use to remove what we

972

00:41:05,589 --> 00:41:05,040

in the non-homeopathic world regard as

973

00:41:08,710 --> 00:41:05,599

the

974

00:41:12,870 --> 00:41:08,720

harmful bits only serves to increase

975

00:41:15,430 --> 00:41:12,880

their potency in each world conversely

976
00:41:16,069 --> 00:41:15,440
if the other homeopathic tenant like cu

977
00:41:19,270 --> 00:41:16,079
is like

978
00:41:22,150 --> 00:41:19,280
is true we should never get sick at all

979
00:41:23,349 --> 00:41:22,160
for all of the reasons listed above the

980
00:41:25,990 --> 00:41:23,359
ultimately dilute

981
00:41:28,230 --> 00:41:26,000
samples existing in our water of every

982
00:41:30,150 --> 00:41:28,240
substance that can make us ill

983
00:41:31,270 --> 00:41:30,160
should have rendered us immune to

984
00:41:34,390 --> 00:41:31,280
everything

985
00:41:35,589 --> 00:41:34,400
indeed if the memory of any substance

986
00:41:37,750 --> 00:41:35,599
survive

987
00:41:39,910 --> 00:41:37,760
even when none of the substance itself

988
00:41:42,950 --> 00:41:39,920

remains then why should we have

989

00:41:46,069 --> 00:41:42,960

need for homeopathic remedies at all

990

00:41:47,589 --> 00:41:46,079

the memory should be retained in the

991

00:41:50,550 --> 00:41:47,599

water molecules

992

00:41:51,829 --> 00:41:50,560

that make up so much of our bodies it

993

00:41:53,829 --> 00:41:51,839

would appear then

994

00:41:55,109 --> 00:41:53,839

that the two fundamental beliefs of the

995

00:41:57,589 --> 00:41:55,119

homeopath would

996

00:41:59,589 --> 00:41:57,599

if they were true make for a very

997

00:42:02,870 --> 00:41:59,599

strange world indeed

998

00:42:03,510 --> 00:42:02,880

i contend that our world does not at all

999

00:42:06,630 --> 00:42:03,520

resemble

1000

00:42:07,990 --> 00:42:06,640

h-world and for a homeopath to convince

1001
00:42:10,710 --> 00:42:08,000
me otherwise

1002
00:42:11,349 --> 00:42:10,720
he would require to show much better

1003
00:42:13,910 --> 00:42:11,359
evidence

1004
00:42:15,670 --> 00:42:13,920
than currently exists and he would have

1005
00:42:21,829 --> 00:42:15,680
to explain why my

1006
00:42:27,870 --> 00:42:25,270
and that was paranormal claims what if

1007
00:42:29,430 --> 00:42:27,880
written by barry williams way back in

1008
00:42:31,750 --> 00:42:29,440
1991

1009
00:42:33,190 --> 00:42:31,760
and i think i can answer barry after all

1010
00:42:36,069 --> 00:42:33,200
these years

1011
00:42:37,910 --> 00:42:36,079
that if you ask a homeopath why wouldn't

1012
00:42:41,030 --> 00:42:37,920
the world be like h world

1013
00:42:41,750 --> 00:42:41,040

the homeopath would answer oh well you

1014

00:42:44,069 --> 00:42:41,760

see

1015

00:42:45,510 --> 00:42:44,079

it doesn't work like that which is the

1016

00:42:47,349 --> 00:42:45,520

same answer we get from

1017

00:42:49,430 --> 00:42:47,359

all sorts of branches of the paranormal

1018

00:42:51,270 --> 00:42:49,440

why can't you predict the winning lotto

1019

00:42:53,990 --> 00:42:51,280

numbers next week oh it doesn't work

1020

00:42:56,230 --> 00:42:54,000

like that uh why can't the

1021

00:42:58,630 --> 00:42:56,240

the dead tell you where they hid the the

1022

00:42:59,589 --> 00:42:58,640

key oh it doesn't work like that and so

1023

00:43:01,829 --> 00:42:59,599

on

1024

00:43:03,670 --> 00:43:01,839

but what a great resource it is to be

1025

00:43:07,910 --> 00:43:03,680

able to pour through the pages

1026
00:43:11,430 --> 00:43:07,920
of the skeptic which is uh soon to be

1027
00:43:15,030 --> 00:43:11,440
uh 40 years old 40 years

1028
00:43:16,390 --> 00:43:15,040
of articles interviews items reports

1029
00:43:28,360 --> 00:43:16,400
examinations

1030
00:43:28,370 --> 00:43:33,430
[Music]

1031
00:43:37,030 --> 00:43:35,750
hey fellow skeptics ben radford here

1032
00:43:38,550 --> 00:43:37,040
with celestia ward

1033
00:43:40,950 --> 00:43:38,560
your friendly host of squaring the

1034
00:43:43,670 --> 00:43:40,960
strange a podcast that looks at topics

1035
00:43:45,990 --> 00:43:43,680
ranging from legends panics and cryptids

1036
00:43:47,750 --> 00:43:46,000
to media myths psychology and folklore

1037
00:43:48,309 --> 00:43:47,760
breaking things down and picking things

1038
00:43:50,390 --> 00:43:48,319

apart

1039

00:43:52,309 --> 00:43:50,400
as we skeptics do we bring a few

1040

00:43:54,069 --> 00:43:52,319
different perspectives on things

1041

00:43:55,430 --> 00:43:54,079
celestia for example is a witty

1042

00:43:56,950 --> 00:43:55,440
cartoonist and ben

1043

00:43:58,950 --> 00:43:56,960
is a brilliant writer and long time

1044

00:43:59,510 --> 00:43:58,960
skeptical investigator we don't always

1045

00:44:01,670 --> 00:43:59,520
agree

1046

00:44:04,230 --> 00:44:01,680
but we have fun trying and we learn new

1047

00:44:04,790 --> 00:44:04,240
things join us for new topics every week

1048

00:44:06,950 --> 00:44:04,800
or two

1049

00:44:08,390 --> 00:44:06,960
or browse our backlog of evergreen

1050

00:44:11,109 --> 00:44:08,400
episodes available

1051
00:44:11,829 --> 00:44:11,119
on itunes and all your podcast feeding

1052
00:44:20,829 --> 00:44:11,839
troughs

1053
00:44:20,839 --> 00:44:30,790
bye-bye

1054
00:44:33,990 --> 00:44:32,309
thank you for listening to the skeptic

1055
00:44:36,790 --> 00:44:34,000
zone podcast

1056
00:44:38,870 --> 00:44:36,800
in the last few days my friend bailey

1057
00:44:41,270 --> 00:44:38,880
harris the young author

1058
00:44:43,750 --> 00:44:41,280
of the stardust series of books let me

1059
00:44:46,230 --> 00:44:43,760
know that there is a special edition

1060
00:44:47,349 --> 00:44:46,240
with a forward by richard dawkins no

1061
00:44:51,670 --> 00:44:47,359
less

1062
00:44:54,550 --> 00:44:51,680
and this is a children's book

1063
00:44:55,589 --> 00:44:54,560

inspired by what neil degrasse tyson

1064

00:44:57,990 --> 00:44:55,599

called

1065

00:45:00,230 --> 00:44:58,000

the most astounding fact we are

1066

00:45:02,870 --> 00:45:00,240

literally made of stardust

1067

00:45:04,390 --> 00:45:02,880

and bailey has a kickstarter to help

1068

00:45:07,349 --> 00:45:04,400

with this project

1069

00:45:07,670 --> 00:45:07,359

and if you're interested in this please

1070

00:45:09,950 --> 00:45:07,680

go

1071

00:45:11,510 --> 00:45:09,960

to this week's show notes at

1072

00:45:14,390 --> 00:45:11,520

skepticzone.tv

1073

00:45:15,589 --> 00:45:14,400

and you'll find a link there coming up

1074

00:45:16,950 --> 00:45:15,599

on next week's show more

1075

00:45:18,470 --> 00:45:16,960

logical fallacies with michelle

1076

00:45:20,309 --> 00:45:18,480

biggesmar down there in melbourne yes

1077

00:45:23,190 --> 00:45:20,319

we're thinking about you michelle

1078

00:45:24,470 --> 00:45:23,200

in the lockdown the stringent lockdown

1079

00:45:26,230 --> 00:45:24,480

and all our friends

1080

00:45:28,390 --> 00:45:26,240

family members and colleagues down in

1081

00:45:30,069 --> 00:45:28,400

melbourne and in victoria

1082

00:45:32,150 --> 00:45:30,079

we look forward to the day when the

1083

00:45:34,790 --> 00:45:32,160

borders are free again

1084

00:45:36,150 --> 00:45:34,800

also the strange case of an australian

1085

00:45:39,430 --> 00:45:36,160

astronaut

1086

00:45:40,550 --> 00:45:39,440

on his way to the moon hmm that's coming

1087

00:45:41,910 --> 00:45:40,560

up next week

1088

00:45:44,829 --> 00:45:41,920

and i should be able to officially

1089

00:45:45,990 --> 00:45:44,839

announce next week news of our new

1090

00:45:48,270 --> 00:45:46,000

reporter

1091

00:45:49,510 --> 00:45:48,280

but if you're curious you can go to

1092

00:45:52,309 --> 00:45:49,520

skepticzone.tv

1093

00:45:53,270 --> 00:45:52,319

and click the contacts link and you'll

1094

00:45:54,510 --> 00:45:53,280

see

1095

00:45:56,390 --> 00:45:54,520

oh if you do happen to go to

1096

00:45:57,990 --> 00:45:56,400

skepticzone.tv please click the

1097

00:46:00,950 --> 00:45:58,000

subscribe link or the

1098

00:46:03,829 --> 00:46:00,960

patreon link or the paypal link and

1099

00:46:06,309 --> 00:46:03,839

become a sponsor a supporter

1100

00:46:07,589 --> 00:46:06,319

of the show and it's only because of the

1101
00:46:09,510 --> 00:46:07,599
people just like you who

1102
00:46:10,790 --> 00:46:09,520
already support the show that you are

1103
00:46:13,510 --> 00:46:10,800
hearing this

1104
00:46:14,630 --> 00:46:13,520
right now now normally at this time i'd

1105
00:46:16,550 --> 00:46:14,640
say something like

1106
00:46:17,750 --> 00:46:16,560
until next week this is richard saunders

1107
00:46:20,710 --> 00:46:17,760
signing off blah blah blah

1108
00:46:22,550 --> 00:46:20,720
you know the story well i'm gonna sign

1109
00:46:26,069 --> 00:46:22,560
off now but you're not

1110
00:46:29,510 --> 00:46:26,079
going to get the normal traditional

1111
00:46:30,950 --> 00:46:29,520
much loved ending to the skeptic zone

1112
00:46:33,109 --> 00:46:30,960
what you're going to hear now is a

1113
00:46:34,069 --> 00:46:33,119

recording made by our reporter michelle

1114

00:46:38,230 --> 00:46:34,079

franklin

1115

00:46:41,270 --> 00:46:38,240

she and i teamed up to uh pull a gag on

1116

00:46:44,630 --> 00:46:41,280

her daughters i'll hand it over to

1117

00:46:53,190 --> 00:46:48,630

okay so we made a deal about going

1118

00:46:54,710 --> 00:46:53,200

to science week how are you gonna win

1119

00:46:58,550 --> 00:46:54,720

your prize of being allowed to go to

1120

00:47:02,470 --> 00:47:00,950

i made three predictions if they come

1121

00:47:03,430 --> 00:47:02,480

true we're going to science week to

1122

00:47:06,470 --> 00:47:03,440

build a rocket

1123

00:47:09,990 --> 00:47:06,480

a rocket is that cool

1124

00:47:12,230 --> 00:47:10,000

all right do you want to listen to

1125

00:47:18,309 --> 00:47:12,240

the dice game now yes all right here we

1126
00:47:21,510 --> 00:47:19,589
you've been listening now tell me what

1127
00:47:30,860 --> 00:47:21,520
your three predictions are

1128
00:47:35,829 --> 00:47:33,910
[Music]

1129
00:47:37,190 --> 00:47:35,839
you can follow the skeptic zone podcast

1130
00:47:40,390 --> 00:47:37,200
on twitter at

1131
00:47:41,270 --> 00:47:40,400
skepticzone visit our facebook page or

1132
00:47:44,230 --> 00:47:41,280
leave a review

1133
00:47:45,109 --> 00:47:44,240
on itunes you can also support the

1134
00:47:49,109 --> 00:47:45,119
skeptic zone

1135
00:47:51,990 --> 00:47:49,119
podcast

1136
00:47:53,750 --> 00:47:52,000
is an independent production the views

1137
00:47:54,150 --> 00:47:53,760
and opinions expressed on the skeptic

1138
00:47:56,230 --> 00:47:54,160

zone

1139

00:47:58,069 --> 00:47:56,240

would be necessarily those of australian

1140

00:48:01,829 --> 00:47:58,079

skeptics or any other

1141

00:48:01,839 --> 00:48:10,870

okay here we go here we go here we go

1142

00:48:14,230 --> 00:48:12,790

hello all you people who listen after

1143

00:48:16,790 --> 00:48:14,240

the music

1144

00:48:17,670 --> 00:48:16,800

the afterthoughts the people who keep

1145

00:48:19,589 --> 00:48:17,680

listening

1146

00:48:21,349 --> 00:48:19,599

even though the show's gone now if you

1147

00:48:22,549 --> 00:48:21,359

haven't heard this part of the show

1148

00:48:25,990 --> 00:48:22,559

before

1149

00:48:29,990 --> 00:48:26,000

this is where i roll and die sometimes

1150

00:48:33,190 --> 00:48:30,000

six sometimes ten sometimes thirty today

1151
00:48:35,670 --> 00:48:33,200
a ten sided diet and you use your magic

1152
00:48:39,109 --> 00:48:35,680
predicting power or

1153
00:48:41,589 --> 00:48:39,119
dumb luck good luck to

1154
00:48:42,470 --> 00:48:41,599
guess what numbers are going to come up

1155
00:48:45,190 --> 00:48:42,480
so

1156
00:48:46,950 --> 00:48:45,200
here it is i've got the die right here

1157
00:48:50,710 --> 00:48:46,960
predictor way

1158
00:48:53,750 --> 00:48:50,720
what's your first uh prediction

1159
00:48:54,660 --> 00:48:53,760
what's your first prediction or here it

1160
00:48:57,510 --> 00:48:54,670
comes

1161
00:49:15,109 --> 00:48:57,520
[Music]

1162
00:49:20,630 --> 00:49:18,470
it's hiding under the six

1163
00:49:22,150 --> 00:49:20,640

that's it that's my number is that your

1164

00:49:24,950 --> 00:49:22,160

number yeah that's my number

1165

00:49:26,549 --> 00:49:24,960

did you get two yeah i got two one more

1166

00:49:28,829 --> 00:49:26,559

and we're going using your psychic

1167

00:49:32,549 --> 00:49:28,839

powers or

1168

00:49:36,470 --> 00:49:32,559

whatever last number

1169

00:49:39,510 --> 00:49:36,480

on the die this week is three

1170

00:49:42,630 --> 00:49:39,520

that's it that's it that's my number

1171

00:49:45,270 --> 00:49:42,640

are you sure six

1172

00:49:46,390 --> 00:49:45,280

what does that mean going to science

1173

00:49:50,150 --> 00:49:46,400

week

1174

00:49:54,549 --> 00:49:50,160

holly how does um

1175

00:49:54,559 --> 00:50:01,270

he heard me

1176

00:50:07,990 --> 00:50:04,790

what happened he heard did he hear you

1177

00:50:10,069 --> 00:50:08,000

yeah are you sure he had all the way

1178

00:50:13,349 --> 00:50:10,079

from sydney

1179

00:50:17,190 --> 00:50:13,359

what what do you think happened

1180

00:50:17,200 --> 00:50:21,190

have you taught anything

1181

00:50:27,589 --> 00:50:24,230

do you think i did did you

1182

00:50:31,349 --> 00:50:27,599

them that we're going to science week

1183

00:50:33,910 --> 00:50:31,359

and then we're doing the dice game wait

1184

00:50:38,829 --> 00:50:33,920

did you tell him to do that

1185

00:50:38,839 --> 00:50:45,349

picture

1186

00:50:55,109 --> 00:50:48,390

was that fun though yeah

1187

00:50:57,670 --> 00:50:55,119

but do you still want your prize

1188

00:50:59,589 --> 00:50:57,680

oh it's a joke you know i like jokes

1189

00:51:01,589 --> 00:50:59,599

yeah i played a funny joke on holly tell

1190

00:51:05,190 --> 00:51:01,599

her what i did the bug one

1191

00:51:07,990 --> 00:51:05,200

no good what bug one a bug joke what's

1192

00:51:09,349 --> 00:51:08,000

the bug joke um the pun that i said yes

1193

00:51:12,150 --> 00:51:09,359

you still don't think that's funny

1194

00:51:13,829 --> 00:51:12,160

no did she tell you the drug no no i

1195

00:51:17,190 --> 00:51:13,839

can't say it for context

1196

00:51:20,549 --> 00:51:17,200

an entomologist is a person who studies

1197

00:51:24,069 --> 00:51:20,559

bugs yeah entomology etymology

1198

00:51:26,150 --> 00:51:24,079

is the study of language and language

1199

00:51:27,349 --> 00:51:26,160

they're two very similar sounding words

1200

00:51:29,030 --> 00:51:27,359

the joke that i said

1201
00:51:31,910 --> 00:51:29,040
which is not my joke but i got off the

1202
00:51:33,750 --> 00:51:31,920
internet and i said it is

1203
00:51:36,870 --> 00:51:33,760
people who don't know the difference

1204
00:51:39,190 --> 00:51:36,880
between entomology and etymology

1205
00:51:43,349 --> 00:51:39,200
bug me in ways that i cannot put into

1206
00:51:47,349 --> 00:51:45,910
i don't think it's funny it's so funny

1207
00:51:49,270 --> 00:51:47,359
no it's not

1208
00:51:51,910 --> 00:51:49,280
how do you not think it's funny it's

1209
00:51:54,309 --> 00:51:51,920
just not funny

1210
00:51:55,030 --> 00:51:54,319
is this thing recording yeah oh shoot

1211
00:51:58,069 --> 00:51:55,040
it's all right

1212
00:52:00,390 --> 00:51:58,079
holly tell riley the joke that i played

1213
00:52:01,990 --> 00:52:00,400

you mean the bug one no it's a tough one

1214

00:52:02,870 --> 00:52:02,000

tell her what we just did on the dice

1215

00:52:05,430 --> 00:52:02,880

game

1216

00:52:07,270 --> 00:52:05,440

what so bad about it it's not bad it's

1217

00:52:09,190 --> 00:52:07,280

funny

1218

00:52:12,150 --> 00:52:09,200

so we were gonna play the dice game

1219

00:52:15,510 --> 00:52:12,160

holly made three predictions

1220

00:52:18,470 --> 00:52:15,520

and they all came true because

1221

00:52:23,510 --> 00:52:18,480

you told him to save them but he didn't

1222

00:52:29,670 --> 00:52:28,230

you cheated yeah she cheated

1223

00:52:31,030 --> 00:52:29,680

how rude but we're still going to

1224

00:52:32,950 --> 00:52:31,040

science week but we get to go to science

1225

00:52:34,309 --> 00:52:32,960

week because of it

1226

00:52:35,990 --> 00:52:34,319

if she didn't do this we wouldn't have

1227

00:52:37,349 --> 00:52:36,000

gone to science week actually i already

1228

00:52:38,470 --> 00:52:37,359

signed up for science week we were going

1229

00:52:42,309 --> 00:52:38,480

to go no matter what

1230

00:52:44,470 --> 00:52:42,319

why i only recently told tate about this

1231

00:52:46,549 --> 00:52:44,480

like yesterday yeah you told me

1232

00:52:47,589 --> 00:52:46,559

yesterday are you excited to go taylor

1233

00:52:49,670 --> 00:52:47,599

as soon as that's harder what we were

1234

00:52:51,109 --> 00:52:49,680

gonna do she was like super hyped

1235

00:52:53,109 --> 00:52:51,119

i was like jumping up and down miss

1236

00:52:57,750 --> 00:52:53,119

clark had to tell me they're like yep

1237

00:52:59,750 --> 00:52:57,760

i'm stopping i'm like but i'm excited

1238

00:53:01,589 --> 00:52:59,760

she legit was jumping and nearly fell

1239

00:53:02,790 --> 00:53:01,599

over

1240

00:53:05,190 --> 00:53:02,800

okay i'm going to edit this into