

1
00:00:06,139 --> 00:00:13,689
welcome to the skeptic zone the podcast

2
00:00:09,109 --> 00:00:13,689
from Australia for science and reason

3
00:00:25,019 --> 00:00:36,039
hello what o.o me hello may not here for

4
00:00:33,128 --> 00:00:38,768
the skeptic Zone episode 306 on the 35th

5
00:00:36,039 --> 00:00:41,948
of August 2014 if you're expecting

6
00:00:38,768 --> 00:00:44,289
Richard Saunders well you're in for a

7
00:00:41,948 --> 00:00:46,058
disappointment baxley no stand up sit

8
00:00:44,289 --> 00:00:48,369
down again stand up turn around hold on

9
00:00:46,058 --> 00:00:49,838
to your hat why because I'm reading the

10
00:00:48,369 --> 00:00:52,959
script that Richard Saunders has sent me

11
00:00:49,838 --> 00:00:57,838
hang on oh there's a comma there so

12
00:00:52,960 --> 00:00:57,838
stand up sit down and hold on to your

13
00:00:58,829 --> 00:01:03,728
hat why because that makes for a funny

14
00:01:01,899 --> 00:01:06,219
side something to entertain the other

15
00:01:03,728 --> 00:01:09,429
people on the train or bus or wherever

16
00:01:06,219 --> 00:01:12,158
you are Richard is having well which is

17
00:01:09,430 --> 00:01:15,040
on the couch under the couch under the

18
00:01:12,159 --> 00:01:18,520
table and basically is a sick of a dog

19
00:01:15,040 --> 00:01:21,790
he's as sick as a dog with a cat on his

20
00:01:18,519 --> 00:01:26,798
lap oh what's that here's my cat

21
00:01:21,790 --> 00:01:28,780
Godzilla now hello Godzilla yeah my

22
00:01:26,799 --> 00:01:32,259
cat's much more talkative Richards meow

23
00:01:28,780 --> 00:01:34,810
shh shh Godzilla anyway what's coming up

24
00:01:32,259 --> 00:01:36,670
on the zone this week well we kick off

25
00:01:34,810 --> 00:01:38,920
with an interview Richard did before the

26
00:01:36,670 --> 00:01:42,640
germies got too bad now the not sure if

27
00:01:38,920 --> 00:01:44,140
it's a virus a micro bacterial and he's

28
00:01:42,640 --> 00:01:47,228
not auditioning for the Sydney dance

29

00:01:44,140 --> 00:01:48,849
company again but he was really good

30
00:01:47,228 --> 00:01:49,780
last time he almost made it if he hadn't

31
00:01:48,849 --> 00:01:52,089
cooked his thigh he would have been

32
00:01:49,780 --> 00:01:56,170
across the line no trouble anyway before

33
00:01:52,090 --> 00:01:57,999
he got a look here's an interview he did

34
00:01:56,170 --> 00:02:00,159
with evan bernstein from the skeptics

35
00:01:57,998 --> 00:02:01,899
guide to the universe podcast evan and

36
00:02:00,159 --> 00:02:03,159
all the SGU rogues are in Atlanta

37
00:02:01,899 --> 00:02:06,519
Georgia at the moment attending

38
00:02:03,159 --> 00:02:09,159
dragoncon was a dragon con six years ago

39
00:02:06,519 --> 00:02:11,650
this week the skeptic zone was launched

40
00:02:09,159 --> 00:02:13,060
are you lucky even tells Richard about

41
00:02:11,650 --> 00:02:15,580
what's going on with a skeptical

42
00:02:13,060 --> 00:02:17,890
outreach at this great convention and

43
00:02:15,580 --> 00:02:20,110

will be tested to see what evan is

44

00:02:17,889 --> 00:02:22,149
dressed as i believe he went as every

45

00:02:20,110 --> 00:02:24,310
member of the Fantastic Four last time

46

00:02:22,150 --> 00:02:26,800
after that is a grain of salt with Iran

47

00:02:24,310 --> 00:02:28,449
sir give who was at the QED convention

48

00:02:26,800 --> 00:02:30,280
in Manchester earlier this year this

49

00:02:28,449 --> 00:02:34,238
time around talks to Joanna Bischoff

50

00:02:30,280 --> 00:02:36,560
about diets and woo that's pronounced

51

00:02:34,239 --> 00:02:38,060
following that it's a week in science in

52

00:02:36,560 --> 00:02:41,598
the Royal Institution of Australia

53

00:02:38,060 --> 00:02:43,370
that's a re-org a you and while we're

54

00:02:41,598 --> 00:02:45,709
doing the plugs here have a listen to

55

00:02:43,370 --> 00:02:48,609
Maynard Comte you where you can find

56

00:02:45,709 --> 00:02:51,199
some interviews about 90 s music and

57

00:02:48,609 --> 00:02:52,670
bunga bunga the show I do with that mr.

58
00:02:51,199 --> 00:02:54,560
Tim Ferguson of the dog Anthony all

59
00:02:52,669 --> 00:02:57,199
stars who are touring again at the

60
00:02:54,560 --> 00:02:59,239
moment back from the 90s that will be on

61
00:02:57,199 --> 00:03:01,669
this week so check that out men are calm

62
00:02:59,239 --> 00:03:03,079
that I you will cost around off our show

63
00:03:01,669 --> 00:03:06,469
after you're all science doubt after

64
00:03:03,079 --> 00:03:08,150
your brains are all sort of swollen in a

65
00:03:06,469 --> 00:03:10,039
good way and a round off the show it's

66
00:03:08,150 --> 00:03:12,459
evidence please with Joe alabaster

67
00:03:10,039 --> 00:03:16,459
what's Joe getting into this week mmm

68
00:03:12,459 --> 00:03:18,709
Underpants light fittings yep well

69
00:03:16,459 --> 00:03:20,658
actually it is Underpants yes underpants

70
00:03:18,709 --> 00:03:23,718
that claim to be able to shield you

71
00:03:20,658 --> 00:03:25,039
against electromagnetic radiation but

72
00:03:23,718 --> 00:03:28,239
personally I can't get enough of stuff

73
00:03:25,039 --> 00:03:32,179
well now I'm going to go downstairs to

74
00:03:28,239 --> 00:03:34,250
Richard's kitchen steal his wallet leave

75
00:03:32,180 --> 00:03:35,989
the house and have one hell of an odd on

76
00:03:34,250 --> 00:03:38,239
his credit card oh and i think i'll

77
00:03:35,989 --> 00:03:40,729
probably have a fewer japanese slippers

78
00:03:38,239 --> 00:03:43,209
while I'm doing that while you enjoy the

79
00:03:40,729 --> 00:03:43,209
skeptics

80
00:03:45,909 --> 00:03:50,530
that okay meow

81
00:04:19,850 --> 00:04:24,750
and joining me now from the wonderful

82
00:04:22,470 --> 00:04:27,540
city of Atlanta in Georgia where I wish

83
00:04:24,750 --> 00:04:29,399
I was right now it's evan Bernstein from

84
00:04:27,540 --> 00:04:32,280
this skeptics guide to the universe

85
00:04:29,399 --> 00:04:34,139
hello Evan hey Richard and everyone

86

00:04:32,279 --> 00:04:35,669
how's everyone doing well I hope

87
00:04:34,139 --> 00:04:37,289
everyone's doing a little bit better

88
00:04:35,670 --> 00:04:40,830
than me I seem to have picked up some

89
00:04:37,290 --> 00:04:43,470
sort of a rotten throaty thing but will

90
00:04:40,829 --> 00:04:45,810
battle on nevertheless and it's hard to

91
00:04:43,470 --> 00:04:47,460
believe that dragon con is on yet again

92
00:04:45,810 --> 00:04:49,889
and it's even harder to believe that I'm

93
00:04:47,459 --> 00:04:51,629
not there but I was just having a chat

94
00:04:49,889 --> 00:04:53,789
to Derek Colin dunno and he said the

95
00:04:51,629 --> 00:04:55,769
first days gone really really well

96
00:04:53,790 --> 00:04:58,890
however how's things looking from your

97
00:04:55,769 --> 00:05:01,589
perspective yeah things here as usual

98
00:04:58,889 --> 00:05:04,860
are very good you know there's always a

99
00:05:01,589 --> 00:05:07,799
robust crowd here lots of different

100
00:05:04,860 --> 00:05:09,629

kinds of people and what I mean by that

101

00:05:07,800 --> 00:05:12,150
is people with lots of different

102

00:05:09,629 --> 00:05:15,389
interests not only skepticism but

103

00:05:12,149 --> 00:05:17,549
obviously science science fiction of

104

00:05:15,389 --> 00:05:19,829
course and certainly a plenty of other

105

00:05:17,550 --> 00:05:22,050
things so it's sort of a different vibe

106

00:05:19,829 --> 00:05:24,120
you get at a conference like Dragon Con

107

00:05:22,050 --> 00:05:26,460
then you get at some of the other more

108

00:05:24,120 --> 00:05:28,019
parochial skeptic conferences that you

109

00:05:26,459 --> 00:05:29,639
and I are familiar with so it's

110

00:05:28,019 --> 00:05:31,799
definitely different and it's a lot of

111

00:05:29,639 --> 00:05:35,490
fun yeah that's my memories from

112

00:05:31,800 --> 00:05:36,960
dragoncon up it's so crazy so many

113

00:05:35,490 --> 00:05:39,329
people walking around in the most

114

00:05:36,959 --> 00:05:41,819
extraordinary costumes and it gets very

115
00:05:39,329 --> 00:05:45,689
busy and very crowded is it like that

116
00:05:41,819 --> 00:05:49,379
this year I think this year more so than

117
00:05:45,689 --> 00:05:51,480
ever these these conventions like Dragon

118
00:05:49,379 --> 00:05:54,240
Con you know they have comic-con and

119
00:05:51,480 --> 00:05:57,000
then and others like it are only growing

120
00:05:54,240 --> 00:06:00,449
in popularity and the attendance numbers

121
00:05:57,000 --> 00:06:02,759
are always going up up up and yeah you

122
00:06:00,449 --> 00:06:04,800
can feel it you definitely have a bit of

123
00:06:02,759 --> 00:06:07,319
a hard time or a challenge getting from

124
00:06:04,800 --> 00:06:09,329
one place to another but we all manage

125
00:06:07,319 --> 00:06:11,819
and everybody is civil and polite about

126
00:06:09,329 --> 00:06:15,209
it and patient we have to have some

127
00:06:11,819 --> 00:06:17,069
patience as well and but it's good it's

128
00:06:15,209 --> 00:06:19,560
good a really good really good vibe from

129
00:06:17,069 --> 00:06:21,719
the crowd here that's what I remember I

130
00:06:19,560 --> 00:06:25,250
went the three years running

131
00:06:21,720 --> 00:06:28,590
I think it was if I can recall 2008 2009

132
00:06:25,250 --> 00:06:32,069
2010 and in the three years i went there

133
00:06:28,589 --> 00:06:35,219
it seemed to me to be getting bigger

134
00:06:32,069 --> 00:06:37,170
every year and the golden rule about

135
00:06:35,220 --> 00:06:40,530
dragoncon especially when you're leaving

136
00:06:37,170 --> 00:06:42,330
is that you have to time your use of the

137
00:06:40,529 --> 00:06:46,229
elevator very carefully otherwise you

138
00:06:42,329 --> 00:06:48,240
just don't get in that's true we're in

139
00:06:46,230 --> 00:06:52,620
Atlanta Georgia you know which is one of

140
00:06:48,240 --> 00:06:55,620
America's larger cities but even even a

141
00:06:52,620 --> 00:06:58,939
city like Atlanta has a hard time sort

142
00:06:55,620 --> 00:07:02,939
of handling the traffic of over 100,000

143

00:06:58,939 --> 00:07:04,589
attendees in their downtown area so it

144
00:07:02,939 --> 00:07:06,540
can it can get pretty tight and like you

145
00:07:04,589 --> 00:07:10,109
said the elevators and the lines for the

146
00:07:06,540 --> 00:07:11,580
elevators do get tight impact but you

147
00:07:10,110 --> 00:07:14,129
know that doesn't dampen anybody's

148
00:07:11,579 --> 00:07:15,569
spirits I mean nobody nobody's really

149
00:07:14,129 --> 00:07:17,730
complaining about anything like that

150
00:07:15,569 --> 00:07:18,870
like I said it just you just have to

151
00:07:17,730 --> 00:07:20,700
have some patience and you'll eventually

152
00:07:18,870 --> 00:07:22,259
get to where you want to go that's

153
00:07:20,699 --> 00:07:24,060
absolutely true and along the way you

154
00:07:22,259 --> 00:07:26,909
can meet you back of the Wookiee or you

155
00:07:24,060 --> 00:07:28,740
can meet Dracula or your favorite

156
00:07:26,910 --> 00:07:31,560
characters from from just about any

157
00:07:28,740 --> 00:07:33,030

movie or any pop culture reference I'm

158

00:07:31,560 --> 00:07:35,910

sure there are lots of doctor who's this

159

00:07:33,029 --> 00:07:38,129

year as well oh this year more than ever

160

00:07:35,910 --> 00:07:41,970

I've see I've seen so much doctor who

161

00:07:38,129 --> 00:07:45,209

it's you know not even not even funny so

162

00:07:41,970 --> 00:07:48,380

much costumes even the merchandise that

163

00:07:45,209 --> 00:07:51,689

they're selling a whole booths of of

164

00:07:48,379 --> 00:07:53,728

merchandise dedicated to simply Doctor

165

00:07:51,689 --> 00:07:55,889

Who and nothing else and it definitely

166

00:07:53,728 --> 00:07:58,228

seems to be a very very popular theme

167

00:07:55,889 --> 00:08:00,599

here and people are loving it enjoying

168

00:07:58,228 --> 00:08:03,180

it having a great time with it yeah they

169

00:08:00,600 --> 00:08:05,010

I'm sure they are as they did the times

170

00:08:03,180 --> 00:08:07,500

that I was there now tell me more about

171

00:08:05,009 --> 00:08:09,779

the skeptical outreach you've been going

172
00:08:07,500 --> 00:08:11,939
to dragoncon longer than I have all

173
00:08:09,779 --> 00:08:15,689
you've been there more times now than I

174
00:08:11,939 --> 00:08:18,149
certainly did I certainly enjoyed the

175
00:08:15,689 --> 00:08:20,819
skeptical panels and the skeptical shows

176
00:08:18,149 --> 00:08:23,069
we did at DragonCon how important it is

177
00:08:20,819 --> 00:08:25,909
for for you and the skeptics guide to

178
00:08:23,069 --> 00:08:28,978
the universe to appear at these things

179
00:08:25,910 --> 00:08:32,310
it is important it's an extra sort of

180
00:08:28,978 --> 00:08:35,038
arm of outreach to an audience who might

181
00:08:32,309 --> 00:08:36,899
not necessarily have some

182
00:08:35,038 --> 00:08:39,269
bossier to us in the first place because

183
00:08:36,899 --> 00:08:41,820
like I said there are so many people

184
00:08:39,269 --> 00:08:43,889
here for so many different reasons you

185
00:08:41,820 --> 00:08:45,540
can't help but get some people

186
00:08:43,889 --> 00:08:48,120
interested in skepticism who maybe

187
00:08:45,539 --> 00:08:50,250
didn't even know about it to begin with

188
00:08:48,120 --> 00:08:52,560
unlike other conventions and other

189
00:08:50,250 --> 00:08:54,448
events we attend where we know pretty

190
00:08:52,559 --> 00:08:56,338
much the crowd for the most part has a

191
00:08:54,448 --> 00:08:58,889
skeptical attitude in a skeptical

192
00:08:56,339 --> 00:09:00,870
worldview but here it's a little bit

193
00:08:58,889 --> 00:09:02,789
more mixed you not quite sure what

194
00:09:00,870 --> 00:09:04,350
people are thinking because you're

195
00:09:02,789 --> 00:09:06,568
running into people that you don't often

196
00:09:04,350 --> 00:09:08,250
see at the other places so it's very

197
00:09:06,568 --> 00:09:09,899
interested in in fact when we were

198
00:09:08,250 --> 00:09:12,600
having dinner just this evening myself

199
00:09:09,899 --> 00:09:14,578
in the novellas we were speaking with

200

00:09:12,600 --> 00:09:16,500
some people at the adjoining table and

201
00:09:14,578 --> 00:09:17,939
they didn't know about us but we just

202
00:09:16,500 --> 00:09:19,049
started talking a little bit and it

203
00:09:17,940 --> 00:09:22,740
turns out they're going to come to our

204
00:09:19,049 --> 00:09:25,078
live show tomorrow and just from us

205
00:09:22,740 --> 00:09:26,490
explaining to them what it was we were

206
00:09:25,078 --> 00:09:28,708
talking about they had never heard of

207
00:09:26,490 --> 00:09:31,169
skepticism before they had no idea and

208
00:09:28,708 --> 00:09:32,698
they said it sounds really interesting

209
00:09:31,169 --> 00:09:34,588
and I think we're going to see them in

210
00:09:32,698 --> 00:09:37,219
some of the front row seats tomorrow

211
00:09:34,589 --> 00:09:40,290
night so that's the that's that's the

212
00:09:37,220 --> 00:09:42,540
really great thing about a convention

213
00:09:40,289 --> 00:09:44,099
like this is that we're making contact

214
00:09:42,539 --> 00:09:46,649

with people with whom we would not

215

00:09:44,100 --> 00:09:49,170

otherwise have that that ability to

216

00:09:46,649 --> 00:09:51,839

contact I think that's a very important

217

00:09:49,169 --> 00:09:53,879

point because you're right at skeptical

218

00:09:51,839 --> 00:09:55,440

conventions or scientific conventions

219

00:09:53,879 --> 00:09:58,350

which you and I appear at from time to

220

00:09:55,440 --> 00:10:00,209

time we know our audience our audience

221

00:09:58,350 --> 00:10:02,730

know why they're there and they know

222

00:10:00,208 --> 00:10:05,669

what to expect but a dragon con what I

223

00:10:02,730 --> 00:10:07,528

really enjoyed was the the drop in crowd

224

00:10:05,669 --> 00:10:09,389

the people passing by all the people who

225

00:10:07,528 --> 00:10:13,679

saw on the program there was something

226

00:10:09,389 --> 00:10:15,839

to do with skepticism be it maybe the

227

00:10:13,679 --> 00:10:18,448

mystery investigators show or the SGU

228

00:10:15,839 --> 00:10:21,779

panel or monsters or something like that

229
00:10:18,448 --> 00:10:25,469
and would come in and maybe for the

230
00:10:21,778 --> 00:10:26,698
first time i meet skeptics and here the

231
00:10:25,470 --> 00:10:28,410
skeptical point of view and the

232
00:10:26,698 --> 00:10:31,919
scientific rational point of view for

233
00:10:28,409 --> 00:10:33,448
mysteries and whatever so I to me it's

234
00:10:31,919 --> 00:10:35,599
it's I guess it's one of the reasons i

235
00:10:33,448 --> 00:10:38,818
really love dragon con was was that

236
00:10:35,600 --> 00:10:41,879
approach that reaching new minds hearts

237
00:10:38,818 --> 00:10:44,729
and minds maybe no doubt about it no

238
00:10:41,879 --> 00:10:48,629
doubt about it the more we can expand

239
00:10:44,730 --> 00:10:51,330
our skeptical outreach to new audiences

240
00:10:48,629 --> 00:10:53,820
better off the entire movement is and

241
00:10:51,330 --> 00:10:56,100
you know frankly we think that you know

242
00:10:53,820 --> 00:10:59,190
people in general are better off if they

243
00:10:56,100 --> 00:11:01,350
if they come to understand what it is to

244
00:10:59,190 --> 00:11:03,810
have a skeptical worldview about things

245
00:11:01,350 --> 00:11:06,450
some people may already have it and not

246
00:11:03,809 --> 00:11:08,069
sort of realize that there is this you

247
00:11:06,450 --> 00:11:10,950
know defined movement or a group of

248
00:11:08,070 --> 00:11:13,170
people that you know work hard and in

249
00:11:10,950 --> 00:11:15,990
promoting these ideas and they're just

250
00:11:13,169 --> 00:11:17,610
coming across these organizations for

251
00:11:15,990 --> 00:11:19,350
the first time at a place like Dragon

252
00:11:17,610 --> 00:11:21,960
Con so like you said Richard it is

253
00:11:19,350 --> 00:11:24,750
important that we do this sort of

254
00:11:21,960 --> 00:11:27,120
outreach in a venue that you might not

255
00:11:24,750 --> 00:11:29,370
otherwise think would would be a good

256
00:11:27,120 --> 00:11:33,830
place to promote skepticism but very

257

00:11:29,370 --> 00:11:36,629
much it is well I seem to think that the

258
00:11:33,830 --> 00:11:39,030
skeptical track at dragoncon is it is a

259
00:11:36,629 --> 00:11:40,710
big success every year due to the fact

260
00:11:39,029 --> 00:11:42,740
that they keep expanding the room and I

261
00:11:40,710 --> 00:11:44,970
remember talking to a packed room at

262
00:11:42,740 --> 00:11:46,649
DragonCon which I was very pleased about

263
00:11:44,970 --> 00:11:49,440
and again looking out in the audience I

264
00:11:46,649 --> 00:11:51,870
saw all sorts of people with costumes of

265
00:11:49,440 --> 00:11:55,490
all descriptions I mean unless you've

266
00:11:51,870 --> 00:11:58,320
been to dragoncon or a similar event

267
00:11:55,490 --> 00:12:00,750
it's hard to imagine that so many people

268
00:11:58,320 --> 00:12:02,160
go to so much incredible trouble to

269
00:12:00,750 --> 00:12:05,159
dress up as their favorite characters

270
00:12:02,159 --> 00:12:06,959
and walk around all day in the in the

271
00:12:05,159 --> 00:12:09,209

heat in Atlanta and that kills me that

272

00:12:06,960 --> 00:12:12,509

that's just that shows your dedication I

273

00:12:09,210 --> 00:12:15,870

think very much so you have people who

274

00:12:12,509 --> 00:12:18,059

plan all year for this particular event

275

00:12:15,870 --> 00:12:19,529

whether it's making costumes or just

276

00:12:18,059 --> 00:12:21,659

making arrangements with their friends

277

00:12:19,529 --> 00:12:24,449

scheduling their vacation plans around

278

00:12:21,659 --> 00:12:26,279

it it's a big deal to a whole lot of

279

00:12:24,450 --> 00:12:28,379

people and the numbers reflect that it

280

00:12:26,279 --> 00:12:31,740

just gets bigger and bigger every year

281

00:12:28,379 --> 00:12:34,139

and I don't you mentioned Derek before

282

00:12:31,740 --> 00:12:37,560

and I think we should say it again that

283

00:12:34,139 --> 00:12:40,019

were it not for Derek Derek's from from

284

00:12:37,559 --> 00:12:41,819

skeptic ality his efforts you know I

285

00:12:40,019 --> 00:12:45,169

hope the skeptical track would just not

286
00:12:41,820 --> 00:12:48,270
be what it is today so I think a real

287
00:12:45,169 --> 00:12:50,189
good shout out and acknowledgement needs

288
00:12:48,269 --> 00:12:52,769
to go to Derek for all of his hard work

289
00:12:50,190 --> 00:12:55,140
and his dedication over the past you

290
00:12:52,769 --> 00:12:57,750
know ten or more years that he's been

291
00:12:55,139 --> 00:12:59,370
dealing with this and making it all

292
00:12:57,750 --> 00:13:02,200
happen it's a tremendous amount of work

293
00:12:59,370 --> 00:13:04,720
he's a very dedicated individual

294
00:13:02,200 --> 00:13:07,300
and we're very happy that you know he's

295
00:13:04,720 --> 00:13:09,430
he's a friend of ours and that he you

296
00:13:07,299 --> 00:13:12,069
know calls us back each year to to

297
00:13:09,429 --> 00:13:14,649
participate were more than happy to oh I

298
00:13:12,070 --> 00:13:16,540
couldn't agree more and and again I keep

299
00:13:14,649 --> 00:13:20,529
relating to the times I was there but

300
00:13:16,539 --> 00:13:22,689
when I was there for those times derek

301
00:13:20,529 --> 00:13:27,129
was on hand and he put it all together

302
00:13:22,690 --> 00:13:28,780
and he was uh he's always so nice and

303
00:13:27,129 --> 00:13:30,580
relaxed about things although i'm sure

304
00:13:28,779 --> 00:13:33,039
underneath he's panicking quite a lot

305
00:13:30,580 --> 00:13:38,620
it's that sort of fellow and in fact

306
00:13:33,039 --> 00:13:40,659
just a not 20 minutes ago as the one of

307
00:13:38,620 --> 00:13:42,970
the panels was going on in the room he's

308
00:13:40,659 --> 00:13:45,850
he's take took the time out to message

309
00:13:42,970 --> 00:13:47,920
me to say how how am i doing and you

310
00:13:45,850 --> 00:13:49,629
know they missed me there so that's a

311
00:13:47,919 --> 00:13:52,929
mark of the man i think he's a really

312
00:13:49,629 --> 00:13:56,470
nice guy agreed I couldn't agree more

313
00:13:52,929 --> 00:13:58,059
now what else apart from obviously doing

314

00:13:56,470 --> 00:14:00,790
the skeptics guide to the universe at

315
00:13:58,059 --> 00:14:02,769
DragonCon which is always great fun i

316
00:14:00,789 --> 00:14:05,139
know i've been in the audience what else

317
00:14:02,769 --> 00:14:07,179
at the event are you looking forward to

318
00:14:05,139 --> 00:14:11,139
or do you like to do when you get away

319
00:14:07,179 --> 00:14:14,620
from the skeptical area we like to go

320
00:14:11,139 --> 00:14:16,449
and drop in on some of the other panels

321
00:14:14,620 --> 00:14:18,190
discussions that are going on because

322
00:14:16,450 --> 00:14:21,220
they talk about so many different things

323
00:14:18,190 --> 00:14:23,680
they talk about art they talk about you

324
00:14:21,220 --> 00:14:26,019
know comics and how special effects in

325
00:14:23,679 --> 00:14:27,879
the movies are made and how the writers

326
00:14:26,019 --> 00:14:30,490
come up with their ideas for television

327
00:14:27,879 --> 00:14:32,889
shows for movies having to do with

328
00:14:30,490 --> 00:14:35,710

science and science fiction those are

329

00:14:32,889 --> 00:14:37,419

those are very informative panels and

330

00:14:35,710 --> 00:14:40,240

usually with some very impressive people

331

00:14:37,419 --> 00:14:42,459

up there telling us about you know the

332

00:14:40,240 --> 00:14:44,649

nature of their craft it's it's it's a

333

00:14:42,460 --> 00:14:47,980

really a great learning experience and I

334

00:14:44,649 --> 00:14:50,529

must admit just going around and being a

335

00:14:47,980 --> 00:14:53,560

voyeur looking at the costumes that

336

00:14:50,529 --> 00:14:56,889

these people are wearing and it puts so

337

00:14:53,559 --> 00:14:58,899

much time and effort into is is is eye

338

00:14:56,889 --> 00:15:01,750

candy there's no other way to put it

339

00:14:58,899 --> 00:15:04,870

it's it's great to see it's so much fun

340

00:15:01,750 --> 00:15:07,600

and you know when you see that somebody

341

00:15:04,870 --> 00:15:09,100

has put in so much work in a costume and

342

00:15:07,600 --> 00:15:10,870

you recognize it from one of your

343

00:15:09,100 --> 00:15:12,460

favorite television shows or favorite

344

00:15:10,870 --> 00:15:14,230

movies you just can't help but go up to

345

00:15:12,460 --> 00:15:15,590

them and let them know what a great job

346

00:15:14,230 --> 00:15:16,970

they've done you want

347

00:15:15,590 --> 00:15:19,460

you know get their picture and

348

00:15:16,970 --> 00:15:22,940

everything that's a big big fun part of

349

00:15:19,460 --> 00:15:26,930

dragoncon it really is it really is um

350

00:15:22,940 --> 00:15:29,330

and I remember walking around the doctor

351

00:15:26,929 --> 00:15:31,609

rachy one year dragoncon just meeting

352

00:15:29,330 --> 00:15:34,490

famous people from television history

353

00:15:31,610 --> 00:15:35,629

that was a that was a kick to and you

354

00:15:34,490 --> 00:15:38,810

never know who you're gonna bump into

355

00:15:35,629 --> 00:15:40,820

their I remember having a light lunch

356

00:15:38,809 --> 00:15:44,269

one day and Larry Hagman walked by I

357
00:15:40,820 --> 00:15:47,450
mean it was just crazy the late Larry

358
00:15:44,269 --> 00:15:50,059
Hagman of Dallas Fame and I Dream of

359
00:15:47,450 --> 00:15:51,920
Jeannie other yeah shows and movies yes

360
00:15:50,059 --> 00:15:54,709
definitely you're exactly right Richard

361
00:15:51,919 --> 00:15:57,620
you you there um all sorts of

362
00:15:54,710 --> 00:16:01,060
celebrities from movies from television

363
00:15:57,620 --> 00:16:03,679
writers artists there they're here and

364
00:16:01,059 --> 00:16:05,569
you know some people come back each year

365
00:16:03,679 --> 00:16:07,099
so you get to see them you know year

366
00:16:05,570 --> 00:16:08,270
after year and then other people you

367
00:16:07,100 --> 00:16:09,920
know just kind of make the rounds every

368
00:16:08,269 --> 00:16:12,860
few years to these events so it becomes

369
00:16:09,919 --> 00:16:15,169
even more special and yet you just don't

370
00:16:12,860 --> 00:16:17,210
know who you're gonna bump into and I

371

00:16:15,169 --> 00:16:19,189
know Terry Gilliam's out there somewhere

372
00:16:17,210 --> 00:16:20,720
this year and I would be very honored to

373
00:16:19,190 --> 00:16:22,430
bump into him and let him know how much

374
00:16:20,720 --> 00:16:25,490
I appreciate all the work he's done over

375
00:16:22,429 --> 00:16:28,669
the years well that reminds me at the

376
00:16:25,490 --> 00:16:30,529
same time roughly uh Larry Hagman walked

377
00:16:28,669 --> 00:16:32,750
by Terry Gilliam was in the corner

378
00:16:30,529 --> 00:16:35,659
chatting to somebody but I'd but that's

379
00:16:32,750 --> 00:16:37,159
great to spot these people but a place

380
00:16:35,659 --> 00:16:38,779
that dragon con also gives you the

381
00:16:37,159 --> 00:16:40,789
opportunity to walk up and chat to

382
00:16:38,779 --> 00:16:42,769
people if you wanted to like I had a

383
00:16:40,789 --> 00:16:44,480
good chat with the Gil Gerard the guy

384
00:16:42,769 --> 00:16:48,439
who played Buck Rogers many years ago

385
00:16:44,480 --> 00:16:50,899

and just random things like that um yeah

386

00:16:48,440 --> 00:16:52,520

so I wish I could be there I'm glad

387

00:16:50,899 --> 00:16:53,509

you're there and the skeptics guide to

388

00:16:52,519 --> 00:16:55,360

the universe is there it's very

389

00:16:53,509 --> 00:16:57,409

important to have a good skeptical

390

00:16:55,360 --> 00:17:00,230

representation of these things again for

391

00:16:57,409 --> 00:17:03,889

the outreach reaching people who may not

392

00:17:00,230 --> 00:17:06,980

normally associate or hear about the

393

00:17:03,889 --> 00:17:09,259

skeptics but let's talk briefly about of

394

00:17:06,980 --> 00:17:11,630

course the big the even better

395

00:17:09,259 --> 00:17:14,599

convention in Sydney at the end of the

396

00:17:11,630 --> 00:17:16,100

year and of course I'll see if I can

397

00:17:14,599 --> 00:17:18,019

dress up for the Australian skeptics

398

00:17:16,099 --> 00:17:20,149

National Convention the skeptics guide

399

00:17:18,019 --> 00:17:23,150

to the universe will be back in Sydney

400
00:17:20,150 --> 00:17:24,530
after a four-year break we're excited I

401
00:17:23,150 --> 00:17:28,009
hope you're looking forward to it as

402
00:17:24,529 --> 00:17:29,480
well oh we've been looking forward to

403
00:17:28,009 --> 00:17:32,089
this for so long Richard as

404
00:17:29,480 --> 00:17:33,380
we'll know and thank you for helping put

405
00:17:32,089 --> 00:17:36,769
this all together and really and really

406
00:17:33,380 --> 00:17:38,780
making this this happen for were it not

407
00:17:36,769 --> 00:17:40,429
for your efforts and your organization's

408
00:17:38,779 --> 00:17:43,460
efforts you know obviously we would not

409
00:17:40,429 --> 00:17:45,169
have much of a presence and in in

410
00:17:43,460 --> 00:17:46,730
Australia but you afford us that

411
00:17:45,169 --> 00:17:49,179
opportunity and it's really a fantastic

412
00:17:46,730 --> 00:17:52,429
thing Australia is a wonderful country

413
00:17:49,179 --> 00:17:54,380
so much we would love to see we're going

414
00:17:52,429 --> 00:17:57,530
back to Sydney again like you said and

415
00:17:54,380 --> 00:18:00,919
we just can't wait and we really do make

416
00:17:57,529 --> 00:18:03,740
this a big huge family event to we're

417
00:18:00,919 --> 00:18:05,419
bringing our children with us and you

418
00:18:03,740 --> 00:18:08,329
know some extended relatives so is so

419
00:18:05,419 --> 00:18:09,919
it's not just you know something as

420
00:18:08,329 --> 00:18:12,199
simple as going to a conference it's

421
00:18:09,919 --> 00:18:14,509
it's really a large event that we've

422
00:18:12,200 --> 00:18:16,460
planned for quite a long time getting

423
00:18:14,509 --> 00:18:19,279
our families involved and frankly we

424
00:18:16,460 --> 00:18:20,960
can't wait to see again the the Great

425
00:18:19,279 --> 00:18:23,660
Australian skeptics audience that's

426
00:18:20,960 --> 00:18:25,579
there because you guys are doing some

427
00:18:23,660 --> 00:18:29,690
great work and your community down there

428

00:18:25,579 --> 00:18:32,178
is robust lively and a lot of fun to be

429
00:18:29,690 --> 00:18:33,529
with a lot of fun to chat with and we

430
00:18:32,179 --> 00:18:35,269
just can't wait it's only a few months

431
00:18:33,529 --> 00:18:37,668
away I know it's going to be here before

432
00:18:35,269 --> 00:18:39,319
we know it it's yeah it will be here

433
00:18:37,669 --> 00:18:42,320
before we know it and just to remind

434
00:18:39,319 --> 00:18:44,000
people out there you can meet Evan and

435
00:18:42,319 --> 00:18:45,710
all of the skeptics guide to the

436
00:18:44,000 --> 00:18:47,599
universe plus all our great guests

437
00:18:45,710 --> 00:18:49,759
coming to the Australian skeptics

438
00:18:47,599 --> 00:18:52,699
National Convention tickets are

439
00:18:49,759 --> 00:18:54,769
available at convention skeptics calm

440
00:18:52,700 --> 00:18:57,380
today you with all the details of who

441
00:18:54,769 --> 00:19:00,859
else will be there and other activities

442
00:18:57,380 --> 00:19:02,510

and I think of course you're going to be

443

00:19:00,859 --> 00:19:04,009

utilizing your time in this part of the

444

00:19:02,509 --> 00:19:07,519

world very well you're also going to

445

00:19:04,009 --> 00:19:11,089

Canberra I understand and then off to

446

00:19:07,519 --> 00:19:12,918

New Zealand correct said this sort of in

447

00:19:11,089 --> 00:19:15,259

the middle of move all those trips you

448

00:19:12,919 --> 00:19:17,509

know sort of the the crown jewel the

449

00:19:15,259 --> 00:19:18,798

centerpiece of it all that we're basing

450

00:19:17,509 --> 00:19:21,039

the rest of the trips around but you're

451

00:19:18,798 --> 00:19:23,298

right Canberra and New Zealand to follow

452

00:19:21,039 --> 00:19:25,220

we're where we've actually not been

453

00:19:23,298 --> 00:19:28,279

before it is New Zealand so we're very

454

00:19:25,220 --> 00:19:31,490

much looking forward to that but you

455

00:19:28,279 --> 00:19:35,509

know obviously there's a large following

456

00:19:31,490 --> 00:19:37,460

of the SGU in Australia and we just

457
00:19:35,509 --> 00:19:39,140
can't wait to get back there to you know

458
00:19:37,460 --> 00:19:41,179
reconnect with with a lot of our

459
00:19:39,140 --> 00:19:43,250
listeners were just so looking forward

460
00:19:41,179 --> 00:19:45,650
to it yes well the feedback leg in

461
00:19:43,250 --> 00:19:47,960
of course as people are very happy

462
00:19:45,650 --> 00:19:51,259
indeed that the st you will be once

463
00:19:47,960 --> 00:19:53,329
again back in sydney but i am jealous of

464
00:19:51,259 --> 00:19:56,089
course because New Zealand is a

465
00:19:53,329 --> 00:19:58,909
wonderful place you will be gobsmacked

466
00:19:56,089 --> 00:20:01,429
it's just the gorgeous country and the

467
00:19:58,910 --> 00:20:03,650
people are so welcoming and friendly

468
00:20:01,430 --> 00:20:05,210
over there and the New Zealand skeptics

469
00:20:03,650 --> 00:20:07,310
are a very active group a very fine

470
00:20:05,210 --> 00:20:09,590
group of people I think you're in for a

471
00:20:07,309 --> 00:20:12,710
really good time Evan and it's so great

472
00:20:09,589 --> 00:20:14,539
that you can share this with people that

473
00:20:12,710 --> 00:20:16,420
you're going to meet along the way and

474
00:20:14,539 --> 00:20:19,250
especially here in Sydney of course

475
00:20:16,420 --> 00:20:21,170
convention skeptics calm today you is

476
00:20:19,250 --> 00:20:23,029
the place to go to buy your tickets and

477
00:20:21,170 --> 00:20:24,440
you can meet Evan and the rest of the

478
00:20:23,029 --> 00:20:26,000
skeptics guide to the universe will ever

479
00:20:24,440 --> 00:20:27,980
know I know it's late in Atlanta I know

480
00:20:26,000 --> 00:20:30,650
you've had a big day cuz every day at

481
00:20:27,980 --> 00:20:33,460
Dragon Con is a big day what's on that's

482
00:20:30,650 --> 00:20:36,259
right what's on the agenda tomorrow

483
00:20:33,460 --> 00:20:39,319
tomorrow's big day uh-huh because we'll

484
00:20:36,259 --> 00:20:41,599
be doing our live skeptics guide to the

485

00:20:39,319 --> 00:20:43,639
universe show in front of a packed house

486
00:20:41,599 --> 00:20:47,059
it's usually a standing-room-only crowd

487
00:20:43,640 --> 00:20:49,400
which is very exciting and as you know

488
00:20:47,059 --> 00:20:51,379
we've talked among ourselves as far as

489
00:20:49,400 --> 00:20:53,810
you know some of our favorite episodes

490
00:20:51,380 --> 00:20:57,410
that we've done over the years where you

491
00:20:53,809 --> 00:21:00,049
know about 480 episodes into our SGU

492
00:20:57,410 --> 00:21:04,009
careers here yeah and really some of our

493
00:21:00,049 --> 00:21:06,289
most fun and lively liveliest audiences

494
00:21:04,009 --> 00:21:08,539
have have occurred at the dragoncon

495
00:21:06,289 --> 00:21:11,029
venue so I don't think tomorrow is going

496
00:21:08,539 --> 00:21:15,139
to be any different in that regard it's

497
00:21:11,029 --> 00:21:17,359
going to be a lot of fun interactive and

498
00:21:15,140 --> 00:21:19,310
just you know so many things about

499
00:21:17,359 --> 00:21:21,259

science and science fiction to play off

500

00:21:19,309 --> 00:21:23,809

of here with the Dragon Con theme it

501

00:21:21,259 --> 00:21:25,599

just makes for a special special event

502

00:21:23,809 --> 00:21:28,490

so that's what we're looking forward to

503

00:21:25,599 --> 00:21:30,469

also Bob's going to be marching in the

504

00:21:28,490 --> 00:21:33,140

parade tomorrow morning and I think

505

00:21:30,470 --> 00:21:34,640

Rebecca is as well so each year at

506

00:21:33,140 --> 00:21:36,950

dragoncon on Saturday morning there's a

507

00:21:34,640 --> 00:21:38,690

parade in which the people who do dress

508

00:21:36,950 --> 00:21:41,600

up in particular costumes get to go out

509

00:21:38,690 --> 00:21:43,220

there and you know / it you know parade

510

00:21:41,599 --> 00:21:45,559

out for everyone to show off their best

511

00:21:43,220 --> 00:21:47,390

wares and their best costumes and I'm

512

00:21:45,559 --> 00:21:49,690

looking forward to be it out there route

513

00:21:47,390 --> 00:21:52,640

and Bob on route and Rebecca as well I

514
00:21:49,690 --> 00:21:54,170
again I wish I could see that I really

515
00:21:52,640 --> 00:21:55,910
do I look forward to the photographs I

516
00:21:54,170 --> 00:21:58,670
look forward to November

517
00:21:55,910 --> 00:22:00,890
forward to greeting you all the whole

518
00:21:58,670 --> 00:22:03,529
skeptics guide to the universe gang back

519
00:22:00,890 --> 00:22:05,240
into Sydney very exciting but Evan thank

520
00:22:03,529 --> 00:22:07,430
you so much for taking time out go to

521
00:22:05,240 --> 00:22:19,970
bed get some sleep and we'll chat soon

522
00:22:07,430 --> 00:22:21,529
well do Richard thanks a lot did you see

523
00:22:19,970 --> 00:22:23,690
that UFO sighting that made the news

524
00:22:21,529 --> 00:22:25,970
what did that latest study about

525
00:22:23,690 --> 00:22:27,590
alternative treatments really say is

526
00:22:25,970 --> 00:22:30,559
this photo making the rounds real or

527
00:22:27,589 --> 00:22:32,449
hoax duffle news is a unique website

528
00:22:30,559 --> 00:22:34,579
featuring news about pseudoscience the

529
00:22:32,450 --> 00:22:36,279
paranormal anomalies and questionable

530
00:22:34,579 --> 00:22:39,259
claims framed with the skeptical view

531
00:22:36,279 --> 00:22:40,990
come visit doubtful newscom every day

532
00:22:39,259 --> 00:22:44,720
for news about cryptozoology

533
00:22:40,990 --> 00:22:47,630
conspiracies shams scams and more follow

534
00:22:44,720 --> 00:22:49,190
us on twitter at doubtful news critical

535
00:22:47,630 --> 00:22:51,500
thinking is essential in assessing

536
00:22:49,190 --> 00:22:55,299
today's news duffel news helps you

537
00:22:51,500 --> 00:22:55,299
decide can you really believe this stuff

538
00:23:03,190 --> 00:23:10,000
let's all take this with a grain of salt

539
00:23:05,980 --> 00:23:10,000
he's around second

540
00:23:12,460 --> 00:23:18,410
so I'm here at skeptic camp in

541
00:23:16,309 --> 00:23:20,629
Manchester the palace hotel and I'm

542

00:23:18,410 --> 00:23:23,690
sitting here with Jonah Bischoff who is

543
00:23:20,630 --> 00:23:25,150
a PhD student in cell biology and she

544
00:23:23,690 --> 00:23:27,890
gave a very interesting talk today

545
00:23:25,150 --> 00:23:30,890
skeptical camp what was the talk about her

546
00:23:27,890 --> 00:23:33,259
so I was talking about dieting and all

547
00:23:30,890 --> 00:23:34,730
the whew that is connected with various

548
00:23:33,259 --> 00:23:37,940
types of diet especially with the

549
00:23:34,730 --> 00:23:40,279
alkaline ash diet what is the article a

550
00:23:37,940 --> 00:23:42,410
nice day so let's die that proposed to

551
00:23:40,279 --> 00:23:44,690
say that well if your body becomes

552
00:23:42,410 --> 00:23:46,340
acidic then this makes you ill and so

553
00:23:44,690 --> 00:23:48,980
you should eat food there are alkaline

554
00:23:46,339 --> 00:23:50,509
and they'll make you healthy and but

555
00:23:48,980 --> 00:23:53,420
actually in fact that's not true because

556
00:23:50,509 --> 00:23:55,759

you can't change your body's pH level by

557

00:23:53,420 --> 00:23:57,920

what you eat so it's actually all

558

00:23:55,759 --> 00:23:59,599

nonsense and there's a lot of good

559

00:23:57,920 --> 00:24:02,539

scientific research that shows you that

560

00:23:59,599 --> 00:24:05,959

there is no relation between the food

561

00:24:02,539 --> 00:24:08,359

you eat and certain illnesses for

562

00:24:05,960 --> 00:24:10,370

example like osteoporosis or cancer so

563

00:24:08,359 --> 00:24:13,869

you can't affect these by eating

564

00:24:10,369 --> 00:24:17,359

alkaline food or you know any other food

565

00:24:13,869 --> 00:24:20,299

so what does affect your blood acidity

566

00:24:17,359 --> 00:24:22,639

level well mainly your body is working

567

00:24:20,299 --> 00:24:25,250

very hard to keep it stable and it has

568

00:24:22,640 --> 00:24:27,020

like a lot of buffering systems that

569

00:24:25,250 --> 00:24:30,079

keep it like this and like for example

570

00:24:27,019 --> 00:24:32,329

your lungs work really hard to expel co2

571
00:24:30,079 --> 00:24:35,149
which is important buffer and your

572
00:24:32,329 --> 00:24:36,919
kidneys keep the pH level stable but if

573
00:24:35,150 --> 00:24:39,380
you get really seriously ill then your

574
00:24:36,920 --> 00:24:42,140
Bloods pH changes so to get us yours

575
00:24:39,380 --> 00:24:43,580
diabetes or if you can't really breathe

576
00:24:42,140 --> 00:24:45,500
properly anymore because your muscles

577
00:24:43,579 --> 00:24:48,139
are very weak and these sort of things

578
00:24:45,500 --> 00:24:49,609
then if you have a chronic illness then

579
00:24:48,140 --> 00:24:51,020
this can change your ph level and you

580
00:24:49,609 --> 00:24:53,419
get some that's called sa doses where

581
00:24:51,019 --> 00:24:55,190
your blood turns more acidic and this

582
00:24:53,420 --> 00:24:57,560
will lead to death really quickly so if

583
00:24:55,190 --> 00:25:01,190
your blood level a pH level drops below

584
00:24:57,559 --> 00:25:03,079
the 7.34 you have only a few hours to

585
00:25:01,190 --> 00:25:08,049
get it back up and otherwise you just

586
00:25:03,079 --> 00:25:11,179
die ok and you can't change your blood

587
00:25:08,049 --> 00:25:12,710
acidity level well so that no not with

588
00:25:11,180 --> 00:25:14,779
food but like if you're really serious

589
00:25:12,710 --> 00:25:17,019
I'll the doctors will give you some

590
00:25:14,779 --> 00:25:20,119
buffering solution throw in like an IV

591
00:25:17,019 --> 00:25:21,859
to get the Bloods of ph level back to

592
00:25:20,119 --> 00:25:25,489
the normal level but through food

593
00:25:21,859 --> 00:25:27,079
okay so good why so do you think it's

594
00:25:25,490 --> 00:25:28,548
just general quackery or is there any

595
00:25:27,079 --> 00:25:31,548
particular reason why people go for this

596
00:25:28,548 --> 00:25:32,960
kind of diet well I think it's a well

597
00:25:31,548 --> 00:25:35,058
part of it is generally quackery but in

598
00:25:32,960 --> 00:25:36,590
general it's something it where you can

599

00:25:35,058 --> 00:25:39,079
then where you're told you can measure

600
00:25:36,589 --> 00:25:42,109
your body fluid and that's something

601
00:25:39,079 --> 00:25:44,509
that people really like to do so what

602
00:25:42,109 --> 00:25:46,009
the people who promote the econolodge

603
00:25:44,509 --> 00:25:47,750
that I tell you is that you're supposed

604
00:25:46,009 --> 00:25:50,480
to measure the pH value of your urine

605
00:25:47,750 --> 00:25:52,700
and this you can really affect a lot by

606
00:25:50,480 --> 00:25:54,319
what you eat because the urine pH is

607
00:25:52,700 --> 00:25:56,000
like a measurement of how hard your body

608
00:25:54,319 --> 00:25:59,210
has to work to keep the pH of your blood

609
00:25:56,000 --> 00:26:00,890
stable so then if you eat alkaline food

610
00:25:59,210 --> 00:26:03,558
your urine will be more achaliner this

611
00:26:00,890 --> 00:26:05,600
is you get these pH measurement strips

612
00:26:03,558 --> 00:26:07,639
this measurement paper and you put in

613
00:26:05,599 --> 00:26:09,048

your urine it changes color and this is

614

00:26:07,640 --> 00:26:11,509

a very quick output and I think people

615

00:26:09,048 --> 00:26:13,910

really like this and another point is

616

00:26:11,509 --> 00:26:15,529

that if you're healthy and you're not

617

00:26:13,910 --> 00:26:17,600

betting on the side curing you of any

618

00:26:15,529 --> 00:26:19,668

illness it'll actually be good for you

619

00:26:17,599 --> 00:26:21,859

probably because it tells you should eat

620

00:26:19,669 --> 00:26:23,900

a lot of fruits and vegetables and not

621

00:26:21,859 --> 00:26:25,668

so much processed food less sugar drink

622

00:26:23,900 --> 00:26:29,809

more water which is you know in general

623

00:26:25,669 --> 00:26:31,640

is the advice and you know you know be

624

00:26:29,808 --> 00:26:34,339

physically active this is the stuff that

625

00:26:31,640 --> 00:26:37,549

you know everybody would tell you how we

626

00:26:34,339 --> 00:26:41,359

have we have one of the people on the

627

00:26:37,548 --> 00:26:43,250

podcast Stefan he has he's developed a

628
00:26:41,359 --> 00:26:46,089
new diet so that that's called a they

629
00:26:43,250 --> 00:26:49,460
eat less exercise more diet oh yeah very

630
00:26:46,089 --> 00:26:51,048
creative ok so just want to ask you

631
00:26:49,460 --> 00:26:53,329
about skip distance what is this your

632
00:26:51,048 --> 00:26:55,910
first QED yes ok and you're from

633
00:26:53,329 --> 00:26:58,339
Heidelberg exactly so is that your you

634
00:26:55,910 --> 00:27:00,290
go to uni there but yeah is that where

635
00:26:58,339 --> 00:27:02,329
you also live yeah I lived there but I

636
00:27:00,289 --> 00:27:05,298
studied in the UK so I mean I'm familiar

637
00:27:02,329 --> 00:27:06,710
with the UK skepticism CNN this is what

638
00:27:05,298 --> 00:27:08,720
I really wanted to come here first QT

639
00:27:06,710 --> 00:27:10,640
and that's it exactly it's also my first

640
00:27:08,720 --> 00:27:12,529
sir I'm very very excited about yeah me

641
00:27:10,640 --> 00:27:16,970
too no because I thought I traveled a

642
00:27:12,529 --> 00:27:19,910
lot oh yes so what makes so are you an

643
00:27:16,970 --> 00:27:21,980
active skeptic in general or is this is

644
00:27:19,910 --> 00:27:24,620
this just a foray into skepticism well

645
00:27:21,980 --> 00:27:26,660
no I mean I

646
00:27:24,619 --> 00:27:28,308
the University and you've had attended

647
00:27:26,660 --> 00:27:32,600
that bath university I actually

648
00:27:28,308 --> 00:27:35,720
co-founded a skepticism group and so and

649
00:27:32,599 --> 00:27:37,969
now I may need blog because you know in

650
00:27:35,720 --> 00:27:40,370
the in Heidelberg we don't really have

651
00:27:37,970 --> 00:27:41,779
an active skeptic scene and I don't have

652
00:27:40,369 --> 00:27:43,699
too much time to set one up and I'm not

653
00:27:41,779 --> 00:27:46,819
planning and staying there for a long

654
00:27:43,700 --> 00:27:48,680
time Isaac all right so yeah so what do

655
00:27:46,819 --> 00:27:50,750
you think so far so you've arrived today

656

00:27:48,680 --> 00:27:52,549
for school I wrote yesterday yeah yeah

657
00:27:50,750 --> 00:27:53,779
okay so what do you think so far oh yeah

658
00:27:52,549 --> 00:27:55,639
it's been great the so many interesting

659
00:27:53,779 --> 00:27:57,649
talk is really impressive i think i like

660
00:27:55,640 --> 00:27:59,480
the skeptic skeptical concert because

661
00:27:57,650 --> 00:28:00,769
it's so broad and like people talk about

662
00:27:59,480 --> 00:28:03,110
the stuff they're really interested in

663
00:28:00,769 --> 00:28:05,269
so I people have a real passion and it's

664
00:28:03,109 --> 00:28:09,079
a very broad topic as well because like

665
00:28:05,269 --> 00:28:09,980
the the main queue it is it's the talk

666
00:28:09,079 --> 00:28:12,169
sounds super interesting I really

667
00:28:09,980 --> 00:28:14,240
looking forward but it's very like a lot

668
00:28:12,170 --> 00:28:17,000
of classical skepticism I say in many

669
00:28:14,240 --> 00:28:18,558
areas is there anything in particular in

670
00:28:17,000 --> 00:28:20,179

the next two days in the program is

671

00:28:18,558 --> 00:28:22,579

something in particular that you looking

672

00:28:20,179 --> 00:28:24,259

forward to um well I really big fan of

673

00:28:22,579 --> 00:28:26,029

the whole magic and skepticism thing

674

00:28:24,259 --> 00:28:28,279

that I like this at the conferences

675

00:28:26,029 --> 00:28:30,558

because just so fun to like understand

676

00:28:28,279 --> 00:28:33,170

how you can trick people using their

677

00:28:30,558 --> 00:28:34,428

like innate physical responses and I

678

00:28:33,170 --> 00:28:36,470

mean I'm really looking forward to the

679

00:28:34,429 --> 00:28:38,509

talk from Nathan Phelps because that's I

680

00:28:36,470 --> 00:28:40,940

think that's just going to be a amazing

681

00:28:38,509 --> 00:28:43,970

story to just hear this thing how this

682

00:28:40,940 --> 00:28:45,289

all worked out excellent well thank you

683

00:28:43,970 --> 00:28:46,549

very much for your timing he and your

684

00:28:45,289 --> 00:28:49,220

talk was really fantastic i really

685
00:28:46,549 --> 00:28:52,099
enjoyed it and enjoy the next two days

686
00:28:49,220 --> 00:29:06,019
so yeah i definitely will thanks

687
00:28:52,099 --> 00:29:07,668
oh hey this is jay novella from the

688
00:29:06,019 --> 00:29:09,589
skeptics guide to the universe podcast

689
00:29:07,669 --> 00:29:11,419
did you know that there are thousands of

690
00:29:09,589 --> 00:29:13,159
skeptical reports interviews and

691
00:29:11,419 --> 00:29:15,860
investigations going back to nineteen

692
00:29:13,160 --> 00:29:19,130
eighty one free to download just visit w

693
00:29:15,859 --> 00:29:21,048
WC optics com a you click the

694
00:29:19,130 --> 00:29:23,000
publications link and enjoy almost every

695
00:29:21,048 --> 00:29:24,980
back issue of the skeptic the journal

696
00:29:23,000 --> 00:29:26,509
from Australian skeptics you can also

697
00:29:24,980 --> 00:29:28,788
subscribe online and get the latest

698
00:29:26,509 --> 00:29:30,829
digital or hard copy of this the world's

699
00:29:28,788 --> 00:29:34,490
second oldest skeptical magazine that's

700
00:29:30,829 --> 00:29:47,058
ww skeptics com a you or just google

701
00:29:34,490 --> 00:29:49,190
Australian skeptics welcome to a week in

702
00:29:47,058 --> 00:29:51,470
science from arias bringing you the

703
00:29:49,190 --> 00:29:53,120
science you need to know every time

704
00:29:51,470 --> 00:29:54,860
there's a big sporting competition we

705
00:29:53,119 --> 00:29:56,989
stare in wonderment at the athletes

706
00:29:54,859 --> 00:30:00,849
breaking records but is there actually a

707
00:29:56,990 --> 00:30:00,849
limit to how fast humans can go

708
00:30:06,808 --> 00:30:11,619
usain bolt's is the fastest human ever

709
00:30:09,398 --> 00:30:13,389
recorded in a race covering a hundred

710
00:30:11,619 --> 00:30:16,089
meters and a little over nine and a half

711
00:30:13,390 --> 00:30:18,159
seconds that gives him an average speed

712
00:30:16,089 --> 00:30:20,230
of around thirty seven kilometres an

713

00:30:18,159 --> 00:30:22,510
hour you may have thought that we might

714
00:30:20,230 --> 00:30:24,460
be reaching a limit of human speed as

715
00:30:22,509 --> 00:30:26,500
our bodies may not be able to take any

716
00:30:24,460 --> 00:30:28,509
higher impact forces through our legs

717
00:30:26,500 --> 00:30:30,669
but research found that hopping on one

718
00:30:28,509 --> 00:30:32,919
leg increased these forces by thirty

719
00:30:30,669 --> 00:30:36,038
percent more than sprinting which goes

720
00:30:32,919 --> 00:30:37,809
to show our bodies can take more instead

721
00:30:36,038 --> 00:30:39,640
researchers think that our speed is

722
00:30:37,808 --> 00:30:41,769
limited by how fast our muscles can

723
00:30:39,640 --> 00:30:43,809
contract and exert force during the

724
00:30:41,769 --> 00:30:45,369
extremely small amount of time athlete

725
00:30:43,808 --> 00:30:47,769
is on the ground which is less than

726
00:30:45,369 --> 00:30:49,629
one-tenth of a second during that short

727
00:30:47,769 --> 00:30:51,668

time the muscle needs to exert as much

728

00:30:49,630 --> 00:30:54,130

force as it can to propel someone

729

00:30:51,669 --> 00:30:55,929

forward looking at human physiology they

730

00:30:54,130 --> 00:31:00,640

estimate humans might be capable of

731

00:30:55,929 --> 00:31:02,919

running over 60 kilometres an hour well

732

00:31:00,640 --> 00:31:04,480

can humans really run 25k is now a

733

00:31:02,919 --> 00:31:06,370

faster than the current world record

734

00:31:04,480 --> 00:31:09,278

well humans are thoughts that have

735

00:31:06,369 --> 00:31:11,079

already run faster than bolt fossilized

736

00:31:09,278 --> 00:31:13,450

footprints found in Australia Shan

737

00:31:11,079 --> 00:31:15,278

ancient indigenous man running when they

738

00:31:13,450 --> 00:31:17,819

were measured it was calculated he was

739

00:31:15,278 --> 00:31:20,558

running at around 37 kilometres an hour

740

00:31:17,819 --> 00:31:23,079

so what that's the same speed as bolt

741

00:31:20,558 --> 00:31:25,750

but keep in mind this man was probably

742
00:31:23,079 --> 00:31:27,879
running through mud if not water give

743
00:31:25,750 --> 00:31:29,890
him modern shoes and a hard surface and

744
00:31:27,880 --> 00:31:32,140
it's likely he would have run around 45

745
00:31:29,890 --> 00:31:34,028
days an hour incredibly in the same

746
00:31:32,140 --> 00:31:36,429
group of footprints was a one-legged man

747
00:31:34,028 --> 00:31:39,788
hopping it over 20 kilometres an hour

748
00:31:36,429 --> 00:31:43,429
try doing that that's fast but not as

749
00:31:39,788 --> 00:31:45,869
fast as air for fast facts

750
00:31:43,429 --> 00:31:47,159
Usain Bolt's power output during a

751
00:31:45,869 --> 00:31:50,158
sprint is around three and a half

752
00:31:47,159 --> 00:31:52,260
horsepower ninety-two percent of bolts

753
00:31:50,159 --> 00:31:54,870
power is used to overcome aerodynamic

754
00:31:52,259 --> 00:31:57,210
drag only eight percent is responsible

755
00:31:54,869 --> 00:31:59,459
for his speed one characteristic of

756
00:31:57,210 --> 00:32:01,528
sprinters is short tendons and long toes

757
00:31:59,460 --> 00:32:04,259
which are thought to improve the effect

758
00:32:01,528 --> 00:32:05,849
of the calf muscles and swinging your

759
00:32:04,259 --> 00:32:08,190
arms when you run reduces energy

760
00:32:05,849 --> 00:32:10,918
expenditure by up to thirteen percent

761
00:32:08,190 --> 00:32:12,808
compared to holding them still that's it

762
00:32:10,919 --> 00:32:14,640
for this week in science for more

763
00:32:12,808 --> 00:32:19,648
information on the limits of human speed

764
00:32:14,640 --> 00:32:22,559
goes to the RLS website are I au s org a

765
00:32:19,648 --> 00:32:25,349
you follow us on twitter at ra oz and

766
00:32:22,558 --> 00:32:28,278
like us on facebook i'm ben lewis and

767
00:32:25,349 --> 00:32:28,278
i'll catch you next week

768
00:32:43,109 --> 00:32:48,429
ad hominem begging the question factoid

769
00:32:46,269 --> 00:32:50,559
propagation false analogy false cause

770

00:32:48,430 --> 00:32:52,360
false dichotomy gibberish immunized

771
00:32:50,559 --> 00:32:53,859
hypothesis moral equivalence poison the

772
00:32:52,359 --> 00:32:56,500
well simple modern certitude stacking

773
00:32:53,859 --> 00:32:58,449
the deck and WTF are just some of the

774
00:32:56,500 --> 00:33:00,970
fallacies we provide real life examples

775
00:32:58,450 --> 00:33:04,870
of in hunting humbug 101 a podcast about

776
00:33:00,970 --> 00:33:07,259
bad arguments check it out at WWF text

777
00:33:04,869 --> 00:33:07,259
field guide

778
00:33:18,380 --> 00:33:26,080
what we want is some more evidence

779
00:33:20,900 --> 00:33:26,080
please is Joe alabaster

780
00:33:29,529 --> 00:33:33,450
hello this is Joe alabasta

781
00:33:34,950 --> 00:33:38,700
this week a follow-up report on the

782
00:33:37,109 --> 00:33:40,439
underwear that claim to offer protection

783
00:33:38,700 --> 00:33:43,860
against allegedly harmful

784
00:33:40,440 --> 00:33:46,710

electromagnetic radiation back in May

785

00:33:43,859 --> 00:33:48,959

this year in episode 290 a brought your

786

00:33:46,710 --> 00:33:50,970

story on an IndieGoGo campaign and its

787

00:33:48,960 --> 00:33:53,370

subsequent media coverage for wireless

788

00:33:50,970 --> 00:33:55,230

armored Underpants made of fabric which

789

00:33:53,369 --> 00:33:57,209

contained a silver mesh which was

790

00:33:55,230 --> 00:33:59,159

claimed to protect men's testicles from

791

00:33:57,210 --> 00:34:01,558

radiation from mobile devices such as

792

00:33:59,159 --> 00:34:04,500

smartphones and laptops by behaving as a

793

00:34:01,558 --> 00:34:07,798

Faraday cage this story was also

794

00:34:04,500 --> 00:34:09,659

featured in skeptic magazine subsequent

795

00:34:07,798 --> 00:34:12,739

my report a complaint was lodged with

796

00:34:09,659 --> 00:34:15,119

us-based crowdfunding platform IndieGoGo

797

00:34:12,739 --> 00:34:16,500

unfortunately IndieGoGo trust and safety

798

00:34:15,119 --> 00:34:18,269

team didn't have a problem with

799

00:34:16,500 --> 00:34:20,159
facilitating fundraising for a non

800

00:34:18,269 --> 00:34:23,909
evidence based product stating that

801

00:34:20,159 --> 00:34:26,760
quote IndieGoGo is an equal opportunity

802

00:34:23,909 --> 00:34:28,530
platform we let our users decide whether

803

00:34:26,760 --> 00:34:30,780
they want to contribute and support the

804

00:34:28,530 --> 00:34:32,820
campaign after performing their own due

805

00:34:30,780 --> 00:34:36,659
diligence on the company CAD Bane owner

806

00:34:32,820 --> 00:34:38,010
and its cause and quote as such I'd

807

00:34:36,659 --> 00:34:39,179
recommend that anybody looking at

808

00:34:38,010 --> 00:34:42,839
supporting an IndieGoGo campaign

809

00:34:39,179 --> 00:34:44,849
practice due diligence another complaint

810

00:34:42,838 --> 00:34:47,128
was lodged this time with the

811

00:34:44,849 --> 00:34:49,859
advertising standards Association the

812

00:34:47,128 --> 00:34:52,848
a-si in the UK where the founder of

813
00:34:49,858 --> 00:34:56,159
wireless armor Joseph Perkins resides as

814
00:34:52,849 --> 00:34:58,500
a result of this complaint the a-si

815
00:34:56,159 --> 00:35:02,210
investigated two claims made by wireless

816
00:34:58,500 --> 00:35:04,730
armor one regarding the link between

817
00:35:02,210 --> 00:35:08,970
electromagnetic am radiation and

818
00:35:04,730 --> 00:35:12,740
infertility in men and two that the

819
00:35:08,969 --> 00:35:15,328
product could protect a user from am in

820
00:35:12,739 --> 00:35:17,189
response to point one wireless armor

821
00:35:15,329 --> 00:35:19,230
limited provided brief summaries of

822
00:35:17,190 --> 00:35:21,150
eight studies and three full papers

823
00:35:19,230 --> 00:35:22,889
which they believe demonstrated that

824
00:35:21,150 --> 00:35:26,068
mobile phone radiation had a negative

825
00:35:22,889 --> 00:35:28,440
impact on male fertility these were

826
00:35:26,068 --> 00:35:33,119
reviewed by the a-si their assessment is

827

00:35:28,440 --> 00:35:35,250
as follows quote the a-si reviewed only

828
00:35:33,119 --> 00:35:36,690
those papers supplied in full as we

829
00:35:35,250 --> 00:35:37,949
considered the summaries of the other

830
00:35:36,690 --> 00:35:40,170
studies did not provide sufficient

831
00:35:37,949 --> 00:35:42,358
detail regarding the subjects and

832
00:35:40,170 --> 00:35:44,608
methodology used to ascertain whether

833
00:35:42,358 --> 00:35:46,318
they had been conducted robustly we

834
00:35:44,608 --> 00:35:48,819
noted that the first paper studied the

835
00:35:46,318 --> 00:35:50,529
impact of am from a mobile phone owned

836
00:35:48,820 --> 00:35:54,550
when it was emitting a Bluetooth signal

837
00:35:50,530 --> 00:35:55,870
for an hour on in vitro human sperm we

838
00:35:54,550 --> 00:35:58,900
understood that the study involved

839
00:35:55,869 --> 00:36:00,880
samples collected from 32 males which

840
00:35:58,900 --> 00:36:03,760
are exposed to em from a phone position

841
00:36:00,880 --> 00:36:05,950

2.5 centimeters away to mimic close

842

00:36:03,760 --> 00:36:08,440
proximity of the testes to a cell phone

843

00:36:05,949 --> 00:36:10,000
in trouser pocket we noted that the

844

00:36:08,440 --> 00:36:11,980
paper concluded that mobile phone

845

00:36:10,000 --> 00:36:14,710
radiation led to a decrease in the

846

00:36:11,980 --> 00:36:16,510
motility and viability of the sperm but

847

00:36:14,710 --> 00:36:18,460
because male reproductive organs were

848

00:36:16,510 --> 00:36:20,260
separated by multiple tissue layers it

849

00:36:18,460 --> 00:36:22,389
was not possible to extrapolate the

850

00:36:20,260 --> 00:36:23,920
effects n under in vitro conditions to

851

00:36:22,389 --> 00:36:27,460
real-life conditions without further

852

00:36:23,920 --> 00:36:30,190
research the second study focused on the

853

00:36:27,460 --> 00:36:33,460
impact of am from mobile phone on male

854

00:36:30,190 --> 00:36:35,559
rat sperm in vivo the authors concluded

855

00:36:33,460 --> 00:36:38,619
that the a.m resulted in low sperm

856
00:36:35,559 --> 00:36:40,570
motility we considered however that a

857
00:36:38,619 --> 00:36:42,759
paper focused on the impact of mobile

858
00:36:40,570 --> 00:36:44,710
phone radiation on rats did not provide

859
00:36:42,760 --> 00:36:46,750
adequate evidence that the same impact

860
00:36:44,710 --> 00:36:49,269
would be experienced by humans in

861
00:36:46,750 --> 00:36:51,969
particular we noted that another of the

862
00:36:49,269 --> 00:36:54,460
papers provided stated that it was quote

863
00:36:51,969 --> 00:36:56,259
impractical to compare a rat model to

864
00:36:54,460 --> 00:36:59,260
humans because of its small testicular

865
00:36:56,260 --> 00:37:01,270
size non pendulous scrotum and the fact

866
00:36:59,260 --> 00:37:03,250
that its testes can migrate between the

867
00:37:01,269 --> 00:37:07,659
abdomen of the scrotum in the inguinal

868
00:37:03,250 --> 00:37:09,789
panel end quote the third paper explored

869
00:37:07,659 --> 00:37:13,029
the correlation if any between

870
00:37:09,789 --> 00:37:15,849
infertility and mobile phone usage the

871
00:37:13,030 --> 00:37:18,070
study involved 361 men who were

872
00:37:15,849 --> 00:37:19,509
undergoing infertility evaluation and

873
00:37:18,070 --> 00:37:21,760
who were divided into four groups

874
00:37:19,510 --> 00:37:24,850
according to their active mobile phone

875
00:37:21,760 --> 00:37:27,130
usage samples of the men's sperm were

876
00:37:24,849 --> 00:37:29,049
collected and analyzed and the results

877
00:37:27,130 --> 00:37:31,210
collected appeared to show an inverse

878
00:37:29,050 --> 00:37:33,850
correlation between mobile phone use and

879
00:37:31,210 --> 00:37:36,820
sperm count motility viability and

880
00:37:33,849 --> 00:37:38,440
normal morphology we noted however the

881
00:37:36,820 --> 00:37:40,450
authors acknowledged the study was

882
00:37:38,440 --> 00:37:43,360
limited as it had not taken into account

883
00:37:40,449 --> 00:37:45,309
relevant confounding factors such as the

884

00:37:43,360 --> 00:37:47,110
Occupational history of the subjects and

885
00:37:45,309 --> 00:37:50,349
their a.m. exposure from other sources

886
00:37:47,110 --> 00:37:53,800
such as radio towers PDAs Bluetooth

887
00:37:50,349 --> 00:37:55,420
devices computers and so forth the study

888
00:37:53,800 --> 00:37:57,430
also relied on the subjects

889
00:37:55,420 --> 00:37:59,980
self-perceived history as their mobile

890
00:37:57,429 --> 00:38:01,750
phone usage was not validated as you not

891
00:37:59,980 --> 00:38:02,199
consider the effects of mobile phones

892
00:38:01,750 --> 00:38:05,710
when

893
00:38:02,199 --> 00:38:07,389
in their standby position we also noted

894
00:38:05,710 --> 00:38:09,849
that the paper was unable to conclude

895
00:38:07,389 --> 00:38:11,739
whether the perceived negative impact

896
00:38:09,849 --> 00:38:14,050
was the result of a emitted from the

897
00:38:11,739 --> 00:38:16,689
phone or of the temperature of the test

898
00:38:14,050 --> 00:38:18,550

is increasing or both we therefore

899

00:38:16,690 --> 00:38:20,260

considered that none of the papers that

900

00:38:18,550 --> 00:38:22,539

have been provided demonstrated that

901

00:38:20,260 --> 00:38:24,579

mobile phone radiation had a proven

902

00:38:22,539 --> 00:38:27,039

negative impact on human male fertility

903

00:38:24,579 --> 00:38:28,780

and concluded that the claims asserting

904

00:38:27,039 --> 00:38:32,349

a link between the two were misleading

905

00:38:28,780 --> 00:38:35,410

on that point the ad breached c.a.p code

906

00:38:32,349 --> 00:38:39,910

edition 12 rules 3.1 misleading

907

00:38:35,409 --> 00:38:42,429

advertising 3.7 substantiation and 12.1

908

00:38:39,909 --> 00:38:46,920

medicines medical devices health-related

909

00:38:42,429 --> 00:38:49,088

products and beauty products and quote

910

00:38:46,920 --> 00:38:51,070

responding two points who that the

911

00:38:49,088 --> 00:38:53,409

product could protect a user from am

912

00:38:51,070 --> 00:38:55,450

wireless armor provided a test report

913
00:38:53,409 --> 00:38:57,368
from a third-party showing the results

914
00:38:55,449 --> 00:38:59,618
achieved when the fabric utilized by the

915
00:38:57,369 --> 00:39:02,650
product was tested for electromagnetic

916
00:38:59,619 --> 00:39:04,329
shielding they said the report showed

917
00:39:02,650 --> 00:39:07,599
that the fabric was able to shield a

918
00:39:04,329 --> 00:39:09,519
high degree of am wireless armor also

919
00:39:07,599 --> 00:39:12,099
explained that although the product had

920
00:39:09,519 --> 00:39:13,900
openings to allow consumer to wear it it

921
00:39:12,099 --> 00:39:16,390
was only when worn that the product

922
00:39:13,900 --> 00:39:18,119
approximated a Faraday cage as the holes

923
00:39:16,389 --> 00:39:20,500
were filled with the wearer's body as

924
00:39:18,119 --> 00:39:23,588
human flesh is not a good conductor of

925
00:39:20,500 --> 00:39:26,500
am it would dissipate the energy the

926
00:39:23,588 --> 00:39:28,690
ASA's assessment quote notwithstanding

927
00:39:26,500 --> 00:39:31,358
our assessment of point 1 above we

928
00:39:28,690 --> 00:39:33,039
reviewed the test report provided to see

929
00:39:31,358 --> 00:39:35,650
whether the product was able to shield

930
00:39:33,039 --> 00:39:37,750
whereas from a.m. we noted however that

931
00:39:35,650 --> 00:39:39,280
the report referred to a sample of the

932
00:39:37,750 --> 00:39:40,838
fabric that was used to construct the

933
00:39:39,280 --> 00:39:42,970
product and not to the product when

934
00:39:40,838 --> 00:39:45,699
assembled into pants and worn by

935
00:39:42,969 --> 00:39:47,799
consumers we therefore considered that

936
00:39:45,699 --> 00:39:49,960
the evidence provided was not sufficient

937
00:39:47,800 --> 00:39:52,089
to show that the product when utilized

938
00:39:49,960 --> 00:39:54,639
by consumers was able to prevent am

939
00:39:52,088 --> 00:39:56,588
reaching the genitals in the absence of

940
00:39:54,639 --> 00:39:59,529
any such evidence we concluded that the

941

00:39:56,588 --> 00:40:01,900
claims were misleading on that point the

942
00:39:59,530 --> 00:40:05,650
ad breached c.a.p code edition 12 rules

943
00:40:01,900 --> 00:40:08,829
3.1 misleading advertising 3.7

944
00:40:05,650 --> 00:40:10,750
substantiation and 12.1 medicines

945
00:40:08,829 --> 00:40:15,280
medical devices health-related products

946
00:40:10,750 --> 00:40:16,039
and beauty products end quote and here's

947
00:40:15,280 --> 00:40:19,880
the a-si

948
00:40:16,039 --> 00:40:22,460
ruling quote action the ad must not

949
00:40:19,880 --> 00:40:24,410
appear again in its current form we told

950
00:40:22,460 --> 00:40:26,210
wireless armored limited to ensure that

951
00:40:24,409 --> 00:40:28,250
they had adequate evidence to

952
00:40:26,210 --> 00:40:32,599
substantiate their efficacy claims in

953
00:40:28,250 --> 00:40:34,730
their marketing in future end quote you

954
00:40:32,599 --> 00:40:36,739
know I think this is fantastic that a

955
00:40:34,730 --> 00:40:38,269

thorough investigation into some strong

956

00:40:36,739 --> 00:40:39,859

key sounding advertising and a

957

00:40:38,269 --> 00:40:41,449

subsequent ruling prohibiting an

958

00:40:39,860 --> 00:40:43,579

advertiser from continuing to make

959

00:40:41,449 --> 00:40:46,519

misleading plans can be the result of

960

00:40:43,579 --> 00:40:48,860

one person writing a letter if you see

961

00:40:46,519 --> 00:40:50,739

something question being advertised go

962

00:40:48,860 --> 00:40:53,630

for it your letter could have an effect

963

00:40:50,739 --> 00:40:56,479

the a trip will see your go-to guys if

964

00:40:53,630 --> 00:40:58,280

you're in Australia there's actually

965

00:40:56,480 --> 00:41:00,170

been some media coverage on the ASA's

966

00:40:58,280 --> 00:41:02,330

ruling on wireless armor I'll provide

967

00:41:00,170 --> 00:41:05,510

some links to news stories on my blog at

968

00:41:02,329 --> 00:41:07,940

evidence please net and also a link to

969

00:41:05,510 --> 00:41:09,740

the ASA's ruling itself and wireless

970
00:41:07,940 --> 00:41:12,500
armors public statement following the

971
00:41:09,739 --> 00:41:14,929
ban on their advertising wireless armor

972
00:41:12,500 --> 00:41:16,730
themselves have retained over 16,000

973
00:41:14,929 --> 00:41:18,649
pounds raised by their IndieGoGo

974
00:41:16,730 --> 00:41:21,010
campaign and are still accepting

975
00:41:18,650 --> 00:41:23,000
pre-orders for their underwear range

976
00:41:21,010 --> 00:41:24,860
currently not a lot can be done about

977
00:41:23,000 --> 00:41:27,349
that but hopefully the ASA's

978
00:41:24,860 --> 00:41:29,059
investigation the ban on advertising and

979
00:41:27,349 --> 00:41:30,799
the media coverage surrounding the

980
00:41:29,059 --> 00:41:32,509
ruling will detract somewhat from the

981
00:41:30,800 --> 00:41:34,910
perceived credibility of this product

982
00:41:32,510 --> 00:41:37,010
before I go this way I'd like to give a

983
00:41:34,909 --> 00:41:39,199
shout-out to the science on top podcast

984
00:41:37,010 --> 00:41:42,170
the Australian podcast about science

985
00:41:39,199 --> 00:41:43,759
health and technology news they are kind

986
00:41:42,170 --> 00:41:45,349
enough to invite me to join their panel

987
00:41:43,760 --> 00:41:47,300
is a guest last week and I had a

988
00:41:45,349 --> 00:41:50,389
fantastic time chatting with ed Lucas

989
00:41:47,300 --> 00:41:52,460
and Penny thanks for having me on signs

990
00:41:50,389 --> 00:41:54,710
on top can be found at science on top

991
00:41:52,460 --> 00:41:56,090
calm it's a fun show and a great way to

992
00:41:54,710 --> 00:41:58,280
stay on top of some of the latest

993
00:41:56,090 --> 00:42:00,519
research and discoveries in the world of

994
00:41:58,280 --> 00:42:00,519
science

995
00:42:21,260 --> 00:42:24,960
thanks again for listening to the

996
00:42:23,190 --> 00:42:26,909
skeptic zone wow what a show that was

997
00:42:24,960 --> 00:42:28,110
packed poor old Richard having to edit

998

00:42:26,909 --> 00:42:29,639
all this together when he's sick

999
00:42:28,110 --> 00:42:32,490
hopefully he'll be all better next week

1000
00:42:29,639 --> 00:42:35,309
but is he sick or really just plain lazy

1001
00:42:32,489 --> 00:42:37,739
you can find out in meeting myself and

1002
00:42:35,309 --> 00:42:40,679
me and four other people this thursday

1003
00:42:37,739 --> 00:42:44,369
night in sydney is sydney skeptics in

1004
00:42:40,679 --> 00:42:49,079
the pub the details are at [meetup.com /](http://meetup.com/)

1005
00:42:44,369 --> 00:42:52,579
aust skeptics that's [meetup.com /](http://meetup.com/) aust

1006
00:42:49,079 --> 00:42:55,400
skeptics this is Maynard signing off

1007
00:42:52,579 --> 00:43:02,250
that's a noise I make when I sign off

1008
00:42:55,400 --> 00:43:06,930
well you've been listening to the

1009
00:43:02,250 --> 00:43:10,769
skeptic zone visit our website at www

1010
00:43:06,929 --> 00:43:14,480
skeptics on TV for comments contacts and

1011
00:43:10,769 --> 00:43:14,480
extra video reports

1012
00:43:17,579 --> 00:43:19,610

Oh