

The Skeptic Zone
Show 306 - 31 Aug 2014



Richard Saunders - Evan Bernstein

1
00:00:25,010 --> 00:00:09,100
welcome to the skeptic zone the podcast

2
00:00:36,030 --> 00:00:33,119
hello what o.o me hello may not here for

3
00:00:38,759 --> 00:00:36,040
the skeptic Zone episode 306 on the 35th

4
00:00:41,939 --> 00:00:38,769
of August 2014 if you're expecting

5
00:00:44,280 --> 00:00:41,949
Richard Saunders well you're in for a

6
00:00:46,049 --> 00:00:44,290
disappointment baxley no stand up sit

7
00:00:48,360 --> 00:00:46,059
down again stand up turn around hold on

8
00:00:49,829 --> 00:00:48,370
to your hat why because I'm reading the

9
00:00:52,950 --> 00:00:49,839
script that Richard Saunders has sent me

10
00:00:58,820 --> 00:00:52,960
hang on oh there's a comma there so

11
00:01:03,719 --> 00:01:01,890
hat why because that makes for a funny

12
00:01:06,210 --> 00:01:03,729
side something to entertain the other

13
00:01:09,420 --> 00:01:06,220

people on the train or bus or wherever

14

00:01:12,149 --> 00:01:09,430

you are Richard is having well which is

15

00:01:15,030 --> 00:01:12,159

on the couch under the couch under the

16

00:01:18,510 --> 00:01:15,040

table and basically is a sick of a dog

17

00:01:21,780 --> 00:01:18,520

he's as sick as a dog with a cat on his

18

00:01:26,789 --> 00:01:21,790

lap oh what's that here's my cat

19

00:01:28,770 --> 00:01:26,799

Godzilla now hello Godzilla yeah my

20

00:01:32,249 --> 00:01:28,780

cat's much more talkative Richards meow

21

00:01:34,800 --> 00:01:32,259

shh shh Godzilla anyway what's coming up

22

00:01:36,660 --> 00:01:34,810

on the zone this week well we kick off

23

00:01:38,910 --> 00:01:36,670

with an interview Richard did before the

24

00:01:42,630 --> 00:01:38,920

germies got too bad now the not sure if

25

00:01:44,130 --> 00:01:42,640

it's a virus a micro bacterial and he's

26

00:01:47,219 --> 00:01:44,140

not auditioning for the Sydney dance

27

00:01:48,840 --> 00:01:47,229

company again but he was really good

28

00:01:49,770 --> 00:01:48,850

last time he almost made it if he hadn't

29

00:01:52,080 --> 00:01:49,780

cooked his thigh he would have been

30

00:01:56,160 --> 00:01:52,090

across the line no trouble anyway before

31

00:01:57,989 --> 00:01:56,170

he got a look here's an interview he did

32

00:02:00,149 --> 00:01:57,999

with evan bernstein from the skeptics

33

00:02:01,889 --> 00:02:00,159

guide to the universe podcast evan and

34

00:02:03,149 --> 00:02:01,899

all the SGU rogues are in Atlanta

35

00:02:06,510 --> 00:02:03,159

Georgia at the moment attending

36

00:02:09,150 --> 00:02:06,520

dragoncon was a dragon con six years ago

37

00:02:11,640 --> 00:02:09,160

this week the skeptic zone was launched

38

00:02:13,050 --> 00:02:11,650

are you lucky even tells Richard about

39

00:02:15,570 --> 00:02:13,060

what's going on with a skeptical

40

00:02:17,880 --> 00:02:15,580

outreach at this great convention and

41

00:02:20,100 --> 00:02:17,890

will be tested to see what even is

42

00:02:22,140 --> 00:02:20,110

dressed as i believe he went as every

43

00:02:24,300 --> 00:02:22,150

member of the Fantastic Four last time

44

00:02:26,790 --> 00:02:24,310

after that is a grain of salt with Iran

45

00:02:28,440 --> 00:02:26,800

sir give who was at the QED convention

46

00:02:30,270 --> 00:02:28,450

in Manchester earlier this year this

47

00:02:34,229 --> 00:02:30,280

time around talks to Joanna Bischoff

48

00:02:36,550 --> 00:02:34,239

about diets and woo that's pronounced

49

00:02:38,050 --> 00:02:36,560

following that it's a week in science in

50

00:02:41,589 --> 00:02:38,060

the Royal Institution of Australia

51
00:02:43,360 --> 00:02:41,599
that's a re-org a you and while we're

52
00:02:45,699 --> 00:02:43,370
doing the plugs here have a listen to

53
00:02:48,599 --> 00:02:45,709
Maynard Comte you where you can find

54
00:02:51,190 --> 00:02:48,609
some interviews about 90 s music and

55
00:02:52,660 --> 00:02:51,200
bunga bunga the show I do with that mr.

56
00:02:54,550 --> 00:02:52,670
Tim Ferguson of the dog Anthony all

57
00:02:57,190 --> 00:02:54,560
stars who are touring again at the

58
00:02:59,229 --> 00:02:57,200
moment back from the 90s that will be on

59
00:03:01,660 --> 00:02:59,239
this week so check that out men are calm

60
00:03:03,069 --> 00:03:01,670
that I you will cost around off our show

61
00:03:06,460 --> 00:03:03,079
after you're all science doubt after

62
00:03:08,140 --> 00:03:06,470
your brains are all sort of swollen in a

63
00:03:10,030 --> 00:03:08,150

good way and a round off the show it's

64

00:03:12,449 --> 00:03:10,040

evidence please with Joe alabaster

65

00:03:16,449 --> 00:03:12,459

what's Joe getting into this week mmm

66

00:03:18,699 --> 00:03:16,459

Underpants light fittings yep well

67

00:03:20,649 --> 00:03:18,709

actually it is Underpants yes underpants

68

00:03:23,709 --> 00:03:20,659

that claim to be able to shield you

69

00:03:25,030 --> 00:03:23,719

against electromagnetic radiation but

70

00:03:28,229 --> 00:03:25,040

personally I can't get enough of stuff

71

00:03:32,170 --> 00:03:28,239

well now I'm going to go downstairs to

72

00:03:34,240 --> 00:03:32,180

Richard's kitchen steal his wallet leave

73

00:03:35,979 --> 00:03:34,250

the house and have one hell of an odd on

74

00:03:38,229 --> 00:03:35,989

his credit card oh and i think i'll

75

00:03:40,719 --> 00:03:38,239

probably have a fewer japanese slippers

76
00:03:45,900 --> 00:03:40,729
while I'm doing that while you enjoy the

77
00:03:45,910 --> 00:04:19,840
that okay meow

78
00:04:24,740 --> 00:04:22,460
and joining me now from the wonderful

79
00:04:27,530 --> 00:04:24,750
city of Atlanta in Georgia where I wish

80
00:04:29,390 --> 00:04:27,540
I was right now it's evan Bernstein from

81
00:04:32,270 --> 00:04:29,400
this skeptics guide to the universe

82
00:04:34,130 --> 00:04:32,280
hello Evan hey Richard and everyone

83
00:04:35,660 --> 00:04:34,140
how's everyone doing well I hope

84
00:04:37,280 --> 00:04:35,670
everyone's doing a little bit better

85
00:04:40,820 --> 00:04:37,290
than me I seem to have picked up some

86
00:04:43,460 --> 00:04:40,830
sort of a rotten throaty thing but will

87
00:04:45,800 --> 00:04:43,470
battle on nevertheless and it's hard to

88
00:04:47,450 --> 00:04:45,810

believe that dragon con is on yet again

89

00:04:49,880 --> 00:04:47,460

and it's even harder to believe that I'm

90

00:04:51,620 --> 00:04:49,890

not there but I was just having a chat

91

00:04:53,780 --> 00:04:51,630

to Derek Colin dunno and he said the

92

00:04:55,760 --> 00:04:53,790

first days gone really really well

93

00:04:58,880 --> 00:04:55,770

however how's things looking from your

94

00:05:01,580 --> 00:04:58,890

perspective yeah things here as usual

95

00:05:04,850 --> 00:05:01,590

are very good you know there's always a

96

00:05:07,790 --> 00:05:04,860

robust crowd here lots of different

97

00:05:09,620 --> 00:05:07,800

kinds of people and what I mean by that

98

00:05:12,140 --> 00:05:09,630

is people with lots of different

99

00:05:15,380 --> 00:05:12,150

interests not only skepticism but

100

00:05:17,540 --> 00:05:15,390

obviously science science fiction of

101
00:05:19,820 --> 00:05:17,550
course and certainly a plenty of other

102
00:05:22,040 --> 00:05:19,830
things so it's sort of a different vibe

103
00:05:24,110 --> 00:05:22,050
you get at a conference like Dragon Con

104
00:05:26,450 --> 00:05:24,120
then you get at some of the other more

105
00:05:28,010 --> 00:05:26,460
parochial skeptic conferences that you

106
00:05:29,630 --> 00:05:28,020
and I are familiar with so it's

107
00:05:31,790 --> 00:05:29,640
definitely different and it's a lot of

108
00:05:35,480 --> 00:05:31,800
fun yeah that's my memories from

109
00:05:36,950 --> 00:05:35,490
dragoncon up it's so crazy so many

110
00:05:39,320 --> 00:05:36,960
people walking around in the most

111
00:05:41,810 --> 00:05:39,330
extraordinary costumes and it gets very

112
00:05:45,680 --> 00:05:41,820
busy and very crowded is it like that

113
00:05:49,370 --> 00:05:45,690

this year I think this year more so than

114

00:05:51,470 --> 00:05:49,380

ever these these conventions like Dragon

115

00:05:54,230 --> 00:05:51,480

Con you know they have comic-con and

116

00:05:56,990 --> 00:05:54,240

then and others like it are only growing

117

00:06:00,440 --> 00:05:57,000

in popularity and the attendance numbers

118

00:06:02,750 --> 00:06:00,450

are always going up up up and yeah you

119

00:06:04,790 --> 00:06:02,760

can feel it you definitely have a bit of

120

00:06:07,310 --> 00:06:04,800

a hard time or a challenge getting from

121

00:06:09,320 --> 00:06:07,320

one place to another but we all manage

122

00:06:11,810 --> 00:06:09,330

and everybody is civil and polite about

123

00:06:15,200 --> 00:06:11,820

it and patient we have to have some

124

00:06:17,060 --> 00:06:15,210

patience as well and but it's good it's

125

00:06:19,550 --> 00:06:17,070

good a really good really good vibe from

126
00:06:21,710 --> 00:06:19,560
the crowd here that's what I remember I

127
00:06:25,240 --> 00:06:21,720
went the three years running

128
00:06:28,580 --> 00:06:25,250
I think it was if I can recall 2008 2009

129
00:06:32,060 --> 00:06:28,590
2010 and in the three years i went there

130
00:06:35,210 --> 00:06:32,070
it seemed to me to be getting bigger

131
00:06:37,160 --> 00:06:35,220
every year and the golden rule about

132
00:06:40,520 --> 00:06:37,170
dragoncon especially when you're leaving

133
00:06:42,320 --> 00:06:40,530
is that you have to time your use of the

134
00:06:46,220 --> 00:06:42,330
elevator very carefully otherwise you

135
00:06:48,230 --> 00:06:46,230
just don't get in that's true we're in

136
00:06:52,610 --> 00:06:48,240
Atlanta Georgia you know which is one of

137
00:06:55,610 --> 00:06:52,620
America's larger cities but even even a

138
00:06:58,930 --> 00:06:55,620

city like Atlanta has a hard time sort

139

00:07:02,930 --> 00:06:58,940

of handling the traffic of over 100,000

140

00:07:04,580 --> 00:07:02,940

attendees in their downtown area so it

141

00:07:06,530 --> 00:07:04,590

can it can get pretty tight and like you

142

00:07:10,100 --> 00:07:06,540

said the elevators and the lines for the

143

00:07:11,570 --> 00:07:10,110

elevators do get tight impact but you

144

00:07:14,120 --> 00:07:11,580

know that doesn't dampen anybody's

145

00:07:15,560 --> 00:07:14,130

spirits I mean nobody nobody's really

146

00:07:17,720 --> 00:07:15,570

complaining about anything like that

147

00:07:18,860 --> 00:07:17,730

like I said it just you just have to

148

00:07:20,690 --> 00:07:18,870

have some patience and you'll eventually

149

00:07:22,250 --> 00:07:20,700

get to where you want to go that's

150

00:07:24,050 --> 00:07:22,260

absolutely true and along the way you

151
00:07:26,900 --> 00:07:24,060
can meet you back of the Wookiee or you

152
00:07:28,730 --> 00:07:26,910
can meet Dracula or your favorite

153
00:07:31,550 --> 00:07:28,740
characters from from just about any

154
00:07:33,020 --> 00:07:31,560
movie or any pop culture reference I'm

155
00:07:35,900 --> 00:07:33,030
sure there are lots of doctor who's this

156
00:07:38,120 --> 00:07:35,910
year as well oh this year more than ever

157
00:07:41,960 --> 00:07:38,130
I've see I've seen so much doctor who

158
00:07:45,200 --> 00:07:41,970
it's you know not even not even funny so

159
00:07:48,370 --> 00:07:45,210
much costumes even the merchandise that

160
00:07:51,680 --> 00:07:48,380
they're selling a whole booths of of

161
00:07:53,719 --> 00:07:51,690
merchandise dedicated to simply Doctor

162
00:07:55,880 --> 00:07:53,729
Who and nothing else and it definitely

163
00:07:58,219 --> 00:07:55,890

seems to be a very very popular theme

164

00:08:00,590 --> 00:07:58,229

here and people are loving it enjoying

165

00:08:03,170 --> 00:08:00,600

it having a great time with it yeah they

166

00:08:05,000 --> 00:08:03,180

I'm sure they are as they did the times

167

00:08:07,490 --> 00:08:05,010

that I was there now tell me more about

168

00:08:09,770 --> 00:08:07,500

the skeptical outreach you've been going

169

00:08:11,930 --> 00:08:09,780

to dragoncon longer than I have all

170

00:08:15,680 --> 00:08:11,940

you've been there more times now than I

171

00:08:18,140 --> 00:08:15,690

certainly did I certainly enjoyed the

172

00:08:20,810 --> 00:08:18,150

skeptical panels and the skeptical shows

173

00:08:23,060 --> 00:08:20,820

we did at DragonCon how important it is

174

00:08:25,900 --> 00:08:23,070

for for you and the skeptics guide to

175

00:08:28,969 --> 00:08:25,910

the universe to appear at these things

176

00:08:32,300 --> 00:08:28,979

it is important it's an extra sort of

177

00:08:35,029 --> 00:08:32,310

arm of outreach to an audience who might

178

00:08:36,889 --> 00:08:35,039

not necessarily have some

179

00:08:39,259 --> 00:08:36,899

bossier to us in the first place because

180

00:08:41,810 --> 00:08:39,269

like I said there are so many people

181

00:08:43,879 --> 00:08:41,820

here for so many different reasons you

182

00:08:45,530 --> 00:08:43,889

can't help but get some people

183

00:08:48,110 --> 00:08:45,540

interested in skepticism who maybe

184

00:08:50,240 --> 00:08:48,120

didn't even know about it to begin with

185

00:08:52,550 --> 00:08:50,250

unlike other conventions and other

186

00:08:54,439 --> 00:08:52,560

events we attend where we know pretty

187

00:08:56,329 --> 00:08:54,449

much the crowd for the most part has a

188

00:08:58,879 --> 00:08:56,339

skeptical attitude in a skeptical

189

00:09:00,860 --> 00:08:58,889

worldview but here it's a little bit

190

00:09:02,780 --> 00:09:00,870

more mixed you not quite sure what

191

00:09:04,340 --> 00:09:02,790

people are thinking because you're

192

00:09:06,559 --> 00:09:04,350

running into people that you don't often

193

00:09:08,240 --> 00:09:06,569

see at the other places so it's very

194

00:09:09,889 --> 00:09:08,250

interested in in fact when we were

195

00:09:12,590 --> 00:09:09,899

having dinner just this evening myself

196

00:09:14,569 --> 00:09:12,600

in the novellas we were speaking with

197

00:09:16,490 --> 00:09:14,579

some people at the adjoining table and

198

00:09:17,930 --> 00:09:16,500

they didn't know about us but we just

199

00:09:19,040 --> 00:09:17,940

started talking a little bit and it

200

00:09:22,730 --> 00:09:19,050

turns out they're going to come to our

201
00:09:25,069 --> 00:09:22,740
live show tomorrow and just from us

202
00:09:26,480 --> 00:09:25,079
explaining to them what it was we were

203
00:09:28,699 --> 00:09:26,490
talking about they had never heard of

204
00:09:31,160 --> 00:09:28,709
skepticism before they had no idea and

205
00:09:32,689 --> 00:09:31,170
they said it sounds really interesting

206
00:09:34,579 --> 00:09:32,699
and I think we're going to see them in

207
00:09:37,210 --> 00:09:34,589
some of the front row seats tomorrow

208
00:09:40,280 --> 00:09:37,220
night so that's the that's that's the

209
00:09:42,530 --> 00:09:40,290
really great thing about a convention

210
00:09:44,090 --> 00:09:42,540
like this is that we're making contact

211
00:09:46,639 --> 00:09:44,100
with people with whom we would not

212
00:09:49,160 --> 00:09:46,649
otherwise have that that ability to

213
00:09:51,829 --> 00:09:49,170

contact I think that's a very important

214

00:09:53,870 --> 00:09:51,839

point because you're right at skeptical

215

00:09:55,430 --> 00:09:53,880

conventions or scientific conventions

216

00:09:58,340 --> 00:09:55,440

which you and I appear at from time to

217

00:10:00,199 --> 00:09:58,350

time we know our audience our audience

218

00:10:02,720 --> 00:10:00,209

know why they're there and they know

219

00:10:05,660 --> 00:10:02,730

what to expect but a dragon con what I

220

00:10:07,519 --> 00:10:05,670

really enjoyed was the the drop in crowd

221

00:10:09,379 --> 00:10:07,529

the people passing by all the people who

222

00:10:13,670 --> 00:10:09,389

saw on the program there was something

223

00:10:15,829 --> 00:10:13,680

to do with skepticism be it maybe the

224

00:10:18,439 --> 00:10:15,839

mystery investigators show or the SGU

225

00:10:21,769 --> 00:10:18,449

panel or monsters or something like that

226

00:10:25,460 --> 00:10:21,779

and would come in and maybe for the

227

00:10:26,689 --> 00:10:25,470

first time i meet skeptics and here the

228

00:10:28,400 --> 00:10:26,699

skeptical point of view and the

229

00:10:31,910 --> 00:10:28,410

scientific rational point of view for

230

00:10:33,439 --> 00:10:31,920

mysteries and whatever so I to me it's

231

00:10:35,590 --> 00:10:33,449

it's I guess it's one of the reasons i

232

00:10:38,809 --> 00:10:35,600

really love dragon con was was that

233

00:10:41,870 --> 00:10:38,819

approach that reaching new minds hearts

234

00:10:44,720 --> 00:10:41,880

and minds maybe no doubt about it no

235

00:10:48,620 --> 00:10:44,730

doubt about it the more we can expand

236

00:10:51,320 --> 00:10:48,630

our skeptical outreach to new audiences

237

00:10:53,810 --> 00:10:51,330

better off the entire movement is and

238

00:10:56,090 --> 00:10:53,820

you know frankly we think that you know

239

00:10:59,180 --> 00:10:56,100

people in general are better off if they

240

00:11:01,340 --> 00:10:59,190

if they come to understand what it is to

241

00:11:03,800 --> 00:11:01,350

have a skeptical worldview about things

242

00:11:06,440 --> 00:11:03,810

some people may already have it and not

243

00:11:08,060 --> 00:11:06,450

sort of realize that there is this you

244

00:11:10,940 --> 00:11:08,070

know defined movement or a group of

245

00:11:13,160 --> 00:11:10,950

people that you know work hard and in

246

00:11:15,980 --> 00:11:13,170

promoting these ideas and they're just

247

00:11:17,600 --> 00:11:15,990

coming across these organizations for

248

00:11:19,340 --> 00:11:17,610

the first time at a place like Dragon

249

00:11:21,950 --> 00:11:19,350

Con so like you said Richard it is

250

00:11:24,740 --> 00:11:21,960

important that we do this sort of

251

00:11:27,110 --> 00:11:24,750

outreach in a venue that you might not

252

00:11:29,360 --> 00:11:27,120

otherwise think would would be a good

253

00:11:33,820 --> 00:11:29,370

place to promote skepticism but very

254

00:11:36,620 --> 00:11:33,830

much it is well I seem to think that the

255

00:11:39,020 --> 00:11:36,630

skeptical track at dragoncon is it is a

256

00:11:40,700 --> 00:11:39,030

big success every year due to the fact

257

00:11:42,730 --> 00:11:40,710

that they keep expanding the room and I

258

00:11:44,960 --> 00:11:42,740

remember talking to a packed room at

259

00:11:46,640 --> 00:11:44,970

DragonCon which I was very pleased about

260

00:11:49,430 --> 00:11:46,650

and again looking out in the audience I

261

00:11:51,860 --> 00:11:49,440

saw all sorts of people with costumes of

262

00:11:55,480 --> 00:11:51,870

all descriptions I mean unless you've

263

00:11:58,310 --> 00:11:55,490

been to dragoncon or a similar event

264

00:12:00,740 --> 00:11:58,320

it's hard to imagine that so many people

265

00:12:02,150 --> 00:12:00,750

go to so much incredible trouble to

266

00:12:05,150 --> 00:12:02,160

dress up as their favorite characters

267

00:12:06,950 --> 00:12:05,160

and walk around all day in the in the

268

00:12:09,200 --> 00:12:06,960

heat in Atlanta and that kills me that

269

00:12:12,500 --> 00:12:09,210

that's just that shows your dedication I

270

00:12:15,860 --> 00:12:12,510

think very much so you have people who

271

00:12:18,050 --> 00:12:15,870

plan all year for this particular event

272

00:12:19,520 --> 00:12:18,060

whether it's making costumes or just

273

00:12:21,650 --> 00:12:19,530

making arrangements with their friends

274

00:12:24,440 --> 00:12:21,660

scheduling their vacation plans around

275

00:12:26,270 --> 00:12:24,450

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

276

00:12:28,370 --> 00:12:26,280

people and the numbers reflect that it

277

00:12:31,730 --> 00:12:28,380

just gets bigger and bigger every year

278

00:12:34,130 --> 00:12:31,740

and I don't you mentioned Derek before

279

00:12:37,550 --> 00:12:34,140

and I think we should say it again that

280

00:12:40,010 --> 00:12:37,560

were it not for Derek Derek's from from

281

00:12:41,810 --> 00:12:40,020

skeptic ality his efforts you know I

282

00:12:45,160 --> 00:12:41,820

hope the skeptical track would just not

283

00:12:48,260 --> 00:12:45,170

be what it is today so I think a real

284

00:12:50,180 --> 00:12:48,270

good shout out and acknowledgement needs

285

00:12:52,760 --> 00:12:50,190

to go to Derek for all of his hard work

286

00:12:55,130 --> 00:12:52,770

and his dedication over the past you

287

00:12:57,740 --> 00:12:55,140

know ten or more years that he's been

288

00:12:59,360 --> 00:12:57,750

dealing with this and making it all

289

00:13:02,190 --> 00:12:59,370

happen it's a tremendous amount of work

290

00:13:04,710 --> 00:13:02,200

he's a very dedicated individual

291

00:13:07,290 --> 00:13:04,720

and we're very happy that you know he's

292

00:13:09,420 --> 00:13:07,300

he's a friend of ours and that he you

293

00:13:12,060 --> 00:13:09,430

know calls us back each year to to

294

00:13:14,640 --> 00:13:12,070

participate were more than happy to oh I

295

00:13:16,530 --> 00:13:14,650

couldn't agree more and and again I keep

296

00:13:20,520 --> 00:13:16,540

relating to the times I was there but

297

00:13:22,680 --> 00:13:20,530

when I was there for those times derek

298

00:13:27,120 --> 00:13:22,690

was on hand and he put it all together

299

00:13:28,770 --> 00:13:27,130

and he was uh he's always so nice and

300

00:13:30,570 --> 00:13:28,780

relaxed about things although i'm sure

301

00:13:33,030 --> 00:13:30,580

underneath he's panicking quite a lot

302

00:13:38,610 --> 00:13:33,040

it's that sort of fellow and in fact

303

00:13:40,650 --> 00:13:38,620

just a not 20 minutes ago as the one of

304

00:13:42,960 --> 00:13:40,660

the panels was going on in the room he's

305

00:13:45,840 --> 00:13:42,970

he's take took the time out to message

306

00:13:47,910 --> 00:13:45,850

me to say how how am i doing and you

307

00:13:49,620 --> 00:13:47,920

know they missed me there so that's a

308

00:13:52,920 --> 00:13:49,630

mark of the man i think he's a really

309

00:13:56,460 --> 00:13:52,930

nice guy agreed I couldn't agree more

310

00:13:58,050 --> 00:13:56,470

now what else apart from obviously doing

311

00:14:00,780 --> 00:13:58,060

the skeptics guide to the universe at

312

00:14:02,760 --> 00:14:00,790

DragonCon which is always great fun i

313

00:14:05,130 --> 00:14:02,770

know i've been in the audience what else

314

00:14:07,170 --> 00:14:05,140

at the event are you looking forward to

315

00:14:11,130 --> 00:14:07,180

or do you like to do when you get away

316

00:14:14,610 --> 00:14:11,140

from the skeptical area we like to go

317

00:14:16,440 --> 00:14:14,620

and drop in on some of the other panels

318

00:14:18,180 --> 00:14:16,450

discussions that are going on because

319

00:14:21,210 --> 00:14:18,190

they talk about so many different things

320

00:14:23,670 --> 00:14:21,220

they talk about art they talk about you

321

00:14:26,010 --> 00:14:23,680

know comics and how special effects in

322

00:14:27,870 --> 00:14:26,020

the movies are made and how the writers

323

00:14:30,480 --> 00:14:27,880

come up with their ideas for television

324

00:14:32,880 --> 00:14:30,490

shows for movies having to do with

325

00:14:35,700 --> 00:14:32,890

science and science fiction those are

326

00:14:37,410 --> 00:14:35,710

those are very informative panels and

327

00:14:40,230 --> 00:14:37,420

usually with some very impressive people

328

00:14:42,450 --> 00:14:40,240

up there telling us about you know the

329

00:14:44,640 --> 00:14:42,460

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

330

00:14:47,970 --> 00:14:44,650

really a great learning experience and I

331

00:14:50,520 --> 00:14:47,980

must admit just going around and being a

332

00:14:53,550 --> 00:14:50,530

voyeur looking at the costumes that

333

00:14:56,880 --> 00:14:53,560

these people are wearing and it puts so

334

00:14:58,890 --> 00:14:56,890

much time and effort into is is is eye

335

00:15:01,740 --> 00:14:58,900

candy there's no other way to put it

336

00:15:04,860 --> 00:15:01,750

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

337

00:15:07,590 --> 00:15:04,870

and you know when you see that somebody

338

00:15:09,090 --> 00:15:07,600

has put in so much work in a costume and

339

00:15:10,860 --> 00:15:09,100

you recognize it from one of your

340

00:15:12,450 --> 00:15:10,870

favorite television shows or favorite

341

00:15:14,220 --> 00:15:12,460

movies you just can't help but go up to

342

00:15:15,580 --> 00:15:14,230

them and let them know what a great job

343

00:15:16,960 --> 00:15:15,590

they've done you want

344

00:15:19,450 --> 00:15:16,970

you know get their picture and

345

00:15:22,930 --> 00:15:19,460

everything that's a big big fun part of

346

00:15:26,920 --> 00:15:22,940

dragoncon it really is it really is um

347

00:15:29,320 --> 00:15:26,930

and I remember walking around the doctor

348

00:15:31,600 --> 00:15:29,330

rachy one year dragoncon just meeting

349

00:15:34,480 --> 00:15:31,610

famous people from television history

350

00:15:35,620 --> 00:15:34,490

that was a that was a kick to and you

351
00:15:38,800 --> 00:15:35,630
never know who you're gonna bump into

352
00:15:40,810 --> 00:15:38,810
their I remember having a light lunch

353
00:15:44,260 --> 00:15:40,820
one day and Larry Hagman walked by I

354
00:15:47,440 --> 00:15:44,270
mean it was just crazy the late Larry

355
00:15:50,050 --> 00:15:47,450
Hagman of Dallas Fame and I Dream of

356
00:15:51,910 --> 00:15:50,060
Jeannie other yeah shows and movies yes

357
00:15:54,700 --> 00:15:51,920
definitely you're exactly right Richard

358
00:15:57,610 --> 00:15:54,710
you you there um all sorts of

359
00:16:01,050 --> 00:15:57,620
celebrities from movies from television

360
00:16:03,670 --> 00:16:01,060
writers artists there they're here and

361
00:16:05,560 --> 00:16:03,680
you know some people come back each year

362
00:16:07,090 --> 00:16:05,570
so you get to see them you know year

363
00:16:08,260 --> 00:16:07,100

after year and then other people you

364

00:16:09,910 --> 00:16:08,270

know just kind of make the rounds every

365

00:16:12,850 --> 00:16:09,920

few years to these events so it becomes

366

00:16:15,160 --> 00:16:12,860

even more special and yet you just don't

367

00:16:17,200 --> 00:16:15,170

know who you're gonna bump into and I

368

00:16:19,180 --> 00:16:17,210

know Terry Gilliam's out there somewhere

369

00:16:20,710 --> 00:16:19,190

this year and I would be very honored to

370

00:16:22,420 --> 00:16:20,720

bump into him and let him know how much

371

00:16:25,480 --> 00:16:22,430

I appreciate all the work he's done over

372

00:16:28,660 --> 00:16:25,490

the years well that reminds me at the

373

00:16:30,520 --> 00:16:28,670

same time roughly uh Larry Hagman walked

374

00:16:32,740 --> 00:16:30,530

by Terry Gilliam was in the corner

375

00:16:35,650 --> 00:16:32,750

chatting to somebody but I'd but that's

376

00:16:37,150 --> 00:16:35,660

great to spot these people but a place

377

00:16:38,770 --> 00:16:37,160

that dragon con also gives you the

378

00:16:40,780 --> 00:16:38,780

opportunity to walk up and chat to

379

00:16:42,760 --> 00:16:40,790

people if you wanted to like I had a

380

00:16:44,470 --> 00:16:42,770

good chat with the Gil Gerard the guy

381

00:16:48,430 --> 00:16:44,480

who played Buck Rogers many years ago

382

00:16:50,890 --> 00:16:48,440

and just random things like that um yeah

383

00:16:52,510 --> 00:16:50,900

so I wish I could be there I'm glad

384

00:16:53,500 --> 00:16:52,520

you're there and the skeptics guide to

385

00:16:55,350 --> 00:16:53,510

the universe is there it's very

386

00:16:57,400 --> 00:16:55,360

important to have a good skeptical

387

00:17:00,220 --> 00:16:57,410

representation of these things again for

388

00:17:03,880 --> 00:17:00,230

the outreach reaching people who may not

389

00:17:06,970 --> 00:17:03,890

normally associate or hear about the

390

00:17:09,250 --> 00:17:06,980

skeptics but let's talk briefly about of

391

00:17:11,620 --> 00:17:09,260

course the big the even better

392

00:17:14,590 --> 00:17:11,630

convention in Sydney at the end of the

393

00:17:16,090 --> 00:17:14,600

year and of course I'll see if I can

394

00:17:18,010 --> 00:17:16,100

dress up for the Australian skeptics

395

00:17:20,140 --> 00:17:18,020

National Convention the skeptics guide

396

00:17:23,140 --> 00:17:20,150

to the universe will be back in Sydney

397

00:17:24,520 --> 00:17:23,150

after a four-year break we're excited I

398

00:17:28,000 --> 00:17:24,530

hope you're looking forward to it as

399

00:17:29,470 --> 00:17:28,010

well oh we've been looking forward to

400

00:17:32,080 --> 00:17:29,480

this for so long Richard as

401
00:17:33,370 --> 00:17:32,090
we'll know and thank you for helping put

402
00:17:36,760 --> 00:17:33,380
this all together and really and really

403
00:17:38,770 --> 00:17:36,770
making this this happen for were it not

404
00:17:40,419 --> 00:17:38,780
for your efforts and your organization's

405
00:17:43,450 --> 00:17:40,429
efforts you know obviously we would not

406
00:17:45,159 --> 00:17:43,460
have much of a presence and in in

407
00:17:46,720 --> 00:17:45,169
Australia but you afford us that

408
00:17:49,169 --> 00:17:46,730
opportunity and it's really a fantastic

409
00:17:52,419 --> 00:17:49,179
thing Australia is a wonderful country

410
00:17:54,370 --> 00:17:52,429
so much we would love to see we're going

411
00:17:57,520 --> 00:17:54,380
back to Sydney again like you said and

412
00:18:00,909 --> 00:17:57,530
we just can't wait and we really do make

413
00:18:03,730 --> 00:18:00,919

this a big huge family event to we're

414

00:18:05,409 --> 00:18:03,740

bringing our children with us and you

415

00:18:08,320 --> 00:18:05,419

know some extended relatives so is so

416

00:18:09,909 --> 00:18:08,330

it's not just you know something as

417

00:18:12,190 --> 00:18:09,919

simple as going to a conference it's

418

00:18:14,500 --> 00:18:12,200

it's really a large event that we've

419

00:18:16,450 --> 00:18:14,510

planned for quite a long time getting

420

00:18:19,270 --> 00:18:16,460

our families involved and frankly we

421

00:18:20,950 --> 00:18:19,280

can't wait to see again the the Great

422

00:18:23,650 --> 00:18:20,960

Australian skeptics audience that's

423

00:18:25,570 --> 00:18:23,660

there because you guys are doing some

424

00:18:29,680 --> 00:18:25,580

great work and your community down there

425

00:18:32,169 --> 00:18:29,690

is robust lively and a lot of fun to be

426

00:18:33,520 --> 00:18:32,179

with a lot of fun to chat with and we

427

00:18:35,260 --> 00:18:33,530

just can't wait it's only a few months

428

00:18:37,659 --> 00:18:35,270

away I know it's going to be here before

429

00:18:39,310 --> 00:18:37,669

we know it it's yeah it will be here

430

00:18:42,310 --> 00:18:39,320

before we know it and just to remind

431

00:18:43,990 --> 00:18:42,320

people out there you can meet Evan and

432

00:18:45,700 --> 00:18:44,000

all of the skeptics guide to the

433

00:18:47,590 --> 00:18:45,710

universe plus all our great guests

434

00:18:49,750 --> 00:18:47,600

coming to the Australian skeptics

435

00:18:52,690 --> 00:18:49,760

National Convention tickets are

436

00:18:54,760 --> 00:18:52,700

available at convention skeptics calm

437

00:18:57,370 --> 00:18:54,770

today you with all the details of who

438

00:19:00,850 --> 00:18:57,380

else will be there and other activities

439

00:19:02,500 --> 00:19:00,860

and I think of course you're going to be

440

00:19:04,000 --> 00:19:02,510

utilizing your time in this part of the

441

00:19:07,510 --> 00:19:04,010

world very well you're also going to

442

00:19:11,080 --> 00:19:07,520

Canberra I understand and then off to

443

00:19:12,909 --> 00:19:11,090

New Zealand correct said this sort of in

444

00:19:15,250 --> 00:19:12,919

the middle of move all those trips you

445

00:19:17,500 --> 00:19:15,260

know sort of the the crown jewel the

446

00:19:18,789 --> 00:19:17,510

centerpiece of it all that we're basing

447

00:19:21,030 --> 00:19:18,799

the rest of the trips around but you're

448

00:19:23,289 --> 00:19:21,040

right Canberra and New Zealand to follow

449

00:19:25,210 --> 00:19:23,299

we're where we've actually not been

450

00:19:28,270 --> 00:19:25,220

before it is New Zealand so we're very

451

00:19:31,480 --> 00:19:28,280

much looking forward to that but you

452

00:19:35,500 --> 00:19:31,490

know obviously there's a large following

453

00:19:37,450 --> 00:19:35,510

of the SGU in Australia and we just

454

00:19:39,130 --> 00:19:37,460

can't wait to get back there to you know

455

00:19:41,169 --> 00:19:39,140

reconnect with with a lot of our

456

00:19:43,240 --> 00:19:41,179

listeners were just so looking forward

457

00:19:45,640 --> 00:19:43,250

to it yes well the feedback leg in

458

00:19:47,950 --> 00:19:45,650

of course as people are very happy

459

00:19:51,250 --> 00:19:47,960

indeed that the st you will be once

460

00:19:53,320 --> 00:19:51,260

again back in sydney but i am jealous of

461

00:19:56,080 --> 00:19:53,330

course because New Zealand is a

462

00:19:58,900 --> 00:19:56,090

wonderful place you will be gobsmacked

463

00:20:01,420 --> 00:19:58,910

it's just the gorgeous country and the

464

00:20:03,640 --> 00:20:01,430

people are so welcoming and friendly

465

00:20:05,200 --> 00:20:03,650

over there and the New Zealand skeptics

466

00:20:07,300 --> 00:20:05,210

are a very active group a very fine

467

00:20:09,580 --> 00:20:07,310

group of people I think you're in for a

468

00:20:12,700 --> 00:20:09,590

really good time Evan and it's so great

469

00:20:14,530 --> 00:20:12,710

that you can share this with people that

470

00:20:16,410 --> 00:20:14,540

you're going to meet along the way and

471

00:20:19,240 --> 00:20:16,420

especially here in Sydney of course

472

00:20:21,160 --> 00:20:19,250

convention skeptics calm today you is

473

00:20:23,020 --> 00:20:21,170

the place to go to buy your tickets and

474

00:20:24,430 --> 00:20:23,030

you can meet Evan and the rest of the

475

00:20:25,990 --> 00:20:24,440

skeptics guide to the universe will ever

476

00:20:27,970 --> 00:20:26,000

know I know it's late in Atlanta I know

477

00:20:30,640 --> 00:20:27,980

you've had a big day cuz every day at

478

00:20:33,450 --> 00:20:30,650

Dragon Con is a big day what's on that's

479

00:20:36,250 --> 00:20:33,460

right what's on the agenda tomorrow

480

00:20:39,310 --> 00:20:36,260

tomorrow's big day uh-huh because we'll

481

00:20:41,590 --> 00:20:39,320

be doing our live skeptics guide to the

482

00:20:43,630 --> 00:20:41,600

universe show in front of a packed house

483

00:20:47,050 --> 00:20:43,640

it's usually a standing-room-only crowd

484

00:20:49,390 --> 00:20:47,060

which is very exciting and as you know

485

00:20:51,370 --> 00:20:49,400

we've talked among ourselves as far as

486

00:20:53,800 --> 00:20:51,380

you know some of our favorite episodes

487

00:20:57,400 --> 00:20:53,810

that we've done over the years where you

488

00:21:00,040 --> 00:20:57,410

know about 480 episodes into our SGU

489

00:21:04,000 --> 00:21:00,050

careers here yeah and really some of our

490

00:21:06,280 --> 00:21:04,010

most fun and lively liveliest audiences

491

00:21:08,530 --> 00:21:06,290

have have occurred at the dragoncon

492

00:21:11,020 --> 00:21:08,540

venue so I don't think tomorrow is going

493

00:21:15,130 --> 00:21:11,030

to be any different in that regard it's

494

00:21:17,350 --> 00:21:15,140

going to be a lot of fun interactive and

495

00:21:19,300 --> 00:21:17,360

just you know so many things about

496

00:21:21,250 --> 00:21:19,310

science and science fiction to play off

497

00:21:23,800 --> 00:21:21,260

of here with the Dragon Con theme it

498

00:21:25,590 --> 00:21:23,810

just makes for a special special event

499

00:21:28,480 --> 00:21:25,600

so that's what we're looking forward to

500

00:21:30,460 --> 00:21:28,490

also Bob's going to be marching in the

501
00:21:33,130 --> 00:21:30,470
parade tomorrow morning and I think

502
00:21:34,630 --> 00:21:33,140
Rebecca is as well so each year at

503
00:21:36,940 --> 00:21:34,640
dragoncon on Saturday morning there's a

504
00:21:38,680 --> 00:21:36,950
parade in which the people who do dress

505
00:21:41,590 --> 00:21:38,690
up in particular costumes get to go out

506
00:21:43,210 --> 00:21:41,600
there and you know / it you know parade

507
00:21:45,550 --> 00:21:43,220
out for everyone to show off their best

508
00:21:47,380 --> 00:21:45,560
wares and their best costumes and I'm

509
00:21:49,680 --> 00:21:47,390
looking forward to be it out there route

510
00:21:52,630 --> 00:21:49,690
and Bob on route and Rebecca as well I

511
00:21:54,160 --> 00:21:52,640
again I wish I could see that I really

512
00:21:55,900 --> 00:21:54,170
do I look forward to the photographs I

513
00:21:58,660 --> 00:21:55,910

look forward to November

514

00:22:00,880 --> 00:21:58,670

forward to greeting you all the whole

515

00:22:03,520 --> 00:22:00,890

skeptics guide to the universe gang back

516

00:22:05,230 --> 00:22:03,530

into Sydney very exciting but Evan thank

517

00:22:07,420 --> 00:22:05,240

you so much for taking time out go to

518

00:22:19,960 --> 00:22:07,430

bed get some sleep and we'll chat soon

519

00:22:21,520 --> 00:22:19,970

well do Richard thanks a lot did you see

520

00:22:23,680 --> 00:22:21,530

that UFO sighting that made the news

521

00:22:25,960 --> 00:22:23,690

what did that latest study about

522

00:22:27,580 --> 00:22:25,970

alternative treatments really say is

523

00:22:30,550 --> 00:22:27,590

this photo making the rounds real or

524

00:22:32,440 --> 00:22:30,560

hoax duffle news is a unique website

525

00:22:34,570 --> 00:22:32,450

featuring news about pseudoscience the

526

00:22:36,270 --> 00:22:34,580

paranormal anomalies and questionable

527

00:22:39,250 --> 00:22:36,280

claims framed with the skeptical view

528

00:22:40,980 --> 00:22:39,260

come visit doubtful newscom every day

529

00:22:44,710 --> 00:22:40,990

for news about cryptozoology

530

00:22:47,620 --> 00:22:44,720

conspiracies shams scams and more follow

531

00:22:49,180 --> 00:22:47,630

us on twitter at doubtful news critical

532

00:22:51,490 --> 00:22:49,190

thinking is essential in assessing

533

00:23:03,180 --> 00:22:51,500

today's news duffel news helps you

534

00:23:12,450 --> 00:23:05,970

let's all take this with a grain of salt

535

00:23:18,400 --> 00:23:16,300

so I'm here at skeptic camp in

536

00:23:20,620 --> 00:23:18,410

Manchester the palace hotel and I'm

537

00:23:23,680 --> 00:23:20,630

sitting here with Jonah Bischoff who is

538

00:23:25,140 --> 00:23:23,690

a PhD student in cell biology and she

539

00:23:27,880 --> 00:23:25,150

gave a very interesting talk today

540

00:23:30,880 --> 00:23:27,890

skept a camp what was the talk about her

541

00:23:33,250 --> 00:23:30,890

so I was talking about dieting and all

542

00:23:34,720 --> 00:23:33,260

the whew that is connected with various

543

00:23:37,930 --> 00:23:34,730

types of diet especially with the

544

00:23:40,270 --> 00:23:37,940

alkaline ash diet what is the article a

545

00:23:42,400 --> 00:23:40,280

nice day so let's die that proposed to

546

00:23:44,680 --> 00:23:42,410

say that well if your body becomes

547

00:23:46,330 --> 00:23:44,690

acidic then this makes you ill and so

548

00:23:48,970 --> 00:23:46,340

you should eat food there are alkaline

549

00:23:50,500 --> 00:23:48,980

and they'll make you healthy and but

550

00:23:53,410 --> 00:23:50,510

actually in fact that's not true because

551
00:23:55,750 --> 00:23:53,420
you can't change your body's pH level by

552
00:23:57,910 --> 00:23:55,760
what you eat so it's actually all

553
00:23:59,590 --> 00:23:57,920
nonsense and there's a lot of good

554
00:24:02,530 --> 00:23:59,600
scientific research that shows you that

555
00:24:05,950 --> 00:24:02,540
there is no relation between the food

556
00:24:08,350 --> 00:24:05,960
you eat and certain illnesses for

557
00:24:10,360 --> 00:24:08,360
example like osteoporosis or cancer so

558
00:24:13,860 --> 00:24:10,370
you can't affect these by eating

559
00:24:17,350 --> 00:24:13,870
alkaline food or you know any other food

560
00:24:20,290 --> 00:24:17,360
so what does affect your blood acidity

561
00:24:22,630 --> 00:24:20,300
level well mainly your body is working

562
00:24:25,240 --> 00:24:22,640
very hard to keep it stable and it has

563
00:24:27,010 --> 00:24:25,250

like a lot of buffering systems that

564

00:24:30,070 --> 00:24:27,020

keep it like this and like for example

565

00:24:32,320 --> 00:24:30,080

your lungs work really hard to expel co₂

566

00:24:35,140 --> 00:24:32,330

which is important buffer and your

567

00:24:36,910 --> 00:24:35,150

kidneys keep the pH level stable but if

568

00:24:39,370 --> 00:24:36,920

you get really seriously ill then your

569

00:24:42,130 --> 00:24:39,380

Bloods pH changes so to get us yours

570

00:24:43,570 --> 00:24:42,140

diabetes or if you can't really breathe

571

00:24:45,490 --> 00:24:43,580

properly anymore because your muscles

572

00:24:48,130 --> 00:24:45,500

are very weak and these sort of things

573

00:24:49,600 --> 00:24:48,140

then if you have a chronic illness then

574

00:24:51,010 --> 00:24:49,610

this can change your ph level and you

575

00:24:53,410 --> 00:24:51,020

get some that's called sa doses where

576

00:24:55,180 --> 00:24:53,420

your blood turns more acidic and this

577

00:24:57,550 --> 00:24:55,190

will lead to death really quickly so if

578

00:25:01,180 --> 00:24:57,560

your blood level a pH level drops below

579

00:25:03,070 --> 00:25:01,190

the 7.34 you have only a few hours to

580

00:25:08,040 --> 00:25:03,080

get it back up and otherwise you just

581

00:25:11,170 --> 00:25:08,050

die ok and you can't change your blood

582

00:25:12,700 --> 00:25:11,180

acidity level well so that no not with

583

00:25:14,770 --> 00:25:12,710

food but like if you're really serious

584

00:25:17,010 --> 00:25:14,780

I'll the doctors will give you some

585

00:25:20,110 --> 00:25:17,020

buffering solution throw in like an IV

586

00:25:21,850 --> 00:25:20,120

to get the Bloods of ph level back to

587

00:25:25,480 --> 00:25:21,860

the normal level but through food

588

00:25:27,070 --> 00:25:25,490

okay so good why so do you think it's

589

00:25:28,539 --> 00:25:27,080

just general quackery or is there any

590

00:25:31,539 --> 00:25:28,549

particular reason why people go for this

591

00:25:32,950 --> 00:25:31,549

kind of diet well I think it's a well

592

00:25:35,049 --> 00:25:32,960

part of it is generally quackery but in

593

00:25:36,580 --> 00:25:35,059

general it's something it where you can

594

00:25:39,070 --> 00:25:36,590

then where you're told you can measure

595

00:25:42,100 --> 00:25:39,080

your body fluid and that's something

596

00:25:44,500 --> 00:25:42,110

that people really like to do so what

597

00:25:46,000 --> 00:25:44,510

the people who promote the econolodge

598

00:25:47,740 --> 00:25:46,010

that I tell you is that you're supposed

599

00:25:50,470 --> 00:25:47,750

to measure the pH value of your urine

600

00:25:52,690 --> 00:25:50,480

and this you can really affect a lot by

601
00:25:54,310 --> 00:25:52,700
what you eat because the urine pH is

602
00:25:55,990 --> 00:25:54,320
like a measurement of how hard your body

603
00:25:59,200 --> 00:25:56,000
has to work to keep the pH of your blood

604
00:26:00,880 --> 00:25:59,210
stable so then if you eat alkaline food

605
00:26:03,549 --> 00:26:00,890
your urine will be more achaliner this

606
00:26:05,590 --> 00:26:03,559
is you get these pH measurement strips

607
00:26:07,630 --> 00:26:05,600
this measurement paper and you put in

608
00:26:09,039 --> 00:26:07,640
your urine it changes color and this is

609
00:26:11,500 --> 00:26:09,049
a very quick output and I think people

610
00:26:13,900 --> 00:26:11,510
really like this and another point is

611
00:26:15,520 --> 00:26:13,910
that if you're healthy and you're not

612
00:26:17,590 --> 00:26:15,530
betting on the side curing you of any

613
00:26:19,659 --> 00:26:17,600

illness it'll actually be good for you

614

00:26:21,850 --> 00:26:19,669

probably because it tells you should eat

615

00:26:23,890 --> 00:26:21,860

a lot of fruits and vegetables and not

616

00:26:25,659 --> 00:26:23,900

so much processed food less sugar drink

617

00:26:29,799 --> 00:26:25,669

more water which is you know in general

618

00:26:31,630 --> 00:26:29,809

is the advice and you know you know be

619

00:26:34,330 --> 00:26:31,640

physically active this is the stuff that

620

00:26:37,539 --> 00:26:34,340

you know everybody would tell you how we

621

00:26:41,350 --> 00:26:37,549

have we have one of the people on the

622

00:26:43,240 --> 00:26:41,360

podcast Stefan he has he's developed a

623

00:26:46,080 --> 00:26:43,250

new diet so that that's called a they

624

00:26:49,450 --> 00:26:46,090

eat less exercise more diet oh yeah very

625

00:26:51,039 --> 00:26:49,460

creative ok so just want to ask you

626

00:26:53,320 --> 00:26:51,049

about skip distance what is this your

627

00:26:55,900 --> 00:26:53,330

first QED yes ok and you're from

628

00:26:58,330 --> 00:26:55,910

Heidelberg exactly so is that your you

629

00:27:00,280 --> 00:26:58,340

go to uni there but yeah is that where

630

00:27:02,320 --> 00:27:00,290

you also live yeah I lived there but I

631

00:27:05,289 --> 00:27:02,330

studied in the UK so I mean I'm familiar

632

00:27:06,700 --> 00:27:05,299

with the UK skepticism CNN this is what

633

00:27:08,710 --> 00:27:06,710

I really wanted to come here first QT

634

00:27:10,630 --> 00:27:08,720

and that's it exactly it's also my first

635

00:27:12,520 --> 00:27:10,640

sir I'm very very excited about yeah me

636

00:27:16,960 --> 00:27:12,530

too no because I thought I traveled a

637

00:27:19,900 --> 00:27:16,970

lot oh yes so what makes so are you an

638

00:27:21,970 --> 00:27:19,910

active skeptic in general or is this is

639

00:27:24,610 --> 00:27:21,980

this just a foray into skepticism well

640

00:27:26,650 --> 00:27:24,620

no I mean I

641

00:27:28,299 --> 00:27:26,660

the University and you've had attended

642

00:27:32,590 --> 00:27:28,309

that bath university I actually

643

00:27:35,710 --> 00:27:32,600

co-founded a skepticism group and so and

644

00:27:37,960 --> 00:27:35,720

now I may need blog because you know in

645

00:27:40,360 --> 00:27:37,970

the in Heidelberg we don't really have

646

00:27:41,770 --> 00:27:40,370

an active skeptic scene and I don't have

647

00:27:43,690 --> 00:27:41,780

too much time to set one up and I'm not

648

00:27:46,810 --> 00:27:43,700

planning and staying there for a long

649

00:27:48,670 --> 00:27:46,820

time Isaac all right so yeah so what do

650

00:27:50,740 --> 00:27:48,680

you think so far so you've arrived today

651
00:27:52,540 --> 00:27:50,750
for school I wrote yesterday yeah yeah

652
00:27:53,770 --> 00:27:52,550
okay so what do you think so far oh yeah

653
00:27:55,630 --> 00:27:53,780
it's been great the so many interesting

654
00:27:57,640 --> 00:27:55,640
talk is really impressive i think i like

655
00:27:59,470 --> 00:27:57,650
the skeptic skeptical concert because

656
00:28:00,760 --> 00:27:59,480
it's so broad and like people talk about

657
00:28:03,100 --> 00:28:00,770
the stuff they're really interested in

658
00:28:05,260 --> 00:28:03,110
so I people have a real passion and it's

659
00:28:09,070 --> 00:28:05,270
a very broad topic as well because like

660
00:28:09,970 --> 00:28:09,080
the the main queue it is it's the talk

661
00:28:12,160 --> 00:28:09,980
sounds super interesting I really

662
00:28:14,230 --> 00:28:12,170
looking forward but it's very like a lot

663
00:28:16,990 --> 00:28:14,240

of classical skepticism I say in many

664

00:28:18,549 --> 00:28:17,000

areas is there anything in particular in

665

00:28:20,169 --> 00:28:18,559

the next two days in the program is

666

00:28:22,570 --> 00:28:20,179

something in particular that you looking

667

00:28:24,250 --> 00:28:22,580

forward to um well I really big fan of

668

00:28:26,020 --> 00:28:24,260

the whole magic and skepticism thing

669

00:28:28,270 --> 00:28:26,030

that I like this at the conferences

670

00:28:30,549 --> 00:28:28,280

because just so fun to like understand

671

00:28:33,160 --> 00:28:30,559

how you can trick people using their

672

00:28:34,419 --> 00:28:33,170

like innate physical responses and I

673

00:28:36,460 --> 00:28:34,429

mean I'm really looking forward to the

674

00:28:38,500 --> 00:28:36,470

talk from Nathan Phelps because that's I

675

00:28:40,930 --> 00:28:38,510

think that's just going to be a amazing

676

00:28:43,960 --> 00:28:40,940

story to just hear this thing how this

677

00:28:45,280 --> 00:28:43,970

all worked out excellent well thank you

678

00:28:46,540 --> 00:28:45,290

very much for your timing he and your

679

00:28:49,210 --> 00:28:46,550

talk was really fantastic i really

680

00:28:52,090 --> 00:28:49,220

enjoyed it and enjoy the next two days

681

00:29:06,010 --> 00:28:52,100

so yeah i definitely will thanks

682

00:29:07,659 --> 00:29:06,020

oh hey this is jay novella from the

683

00:29:09,580 --> 00:29:07,669

skeptics guide to the universe podcast

684

00:29:11,409 --> 00:29:09,590

did you know that there are thousands of

685

00:29:13,150 --> 00:29:11,419

skeptical reports interviews and

686

00:29:15,850 --> 00:29:13,160

investigations going back to nineteen

687

00:29:19,120 --> 00:29:15,860

eighty one free to download just visit w

688

00:29:21,039 --> 00:29:19,130

WC optics com a you click the

689

00:29:22,990 --> 00:29:21,049

publications link and enjoy almost every

690

00:29:24,970 --> 00:29:23,000

back issue of the skeptic the journal

691

00:29:26,500 --> 00:29:24,980

from Australian skeptics you can also

692

00:29:28,779 --> 00:29:26,510

subscribe online and get the latest

693

00:29:30,820 --> 00:29:28,789

digital or hard copy of this the world's

694

00:29:34,480 --> 00:29:30,830

second oldest skeptical magazine that's

695

00:29:47,049 --> 00:29:34,490

ww skeptics com a you or just google

696

00:29:49,180 --> 00:29:47,059

Australian skeptics welcome to a week in

697

00:29:51,460 --> 00:29:49,190

science from arias bringing you the

698

00:29:53,110 --> 00:29:51,470

science you need to know every time

699

00:29:54,850 --> 00:29:53,120

there's a big sporting competition we

700

00:29:56,980 --> 00:29:54,860

stare in wonderment at the athletes

701
00:30:06,799 --> 00:29:56,990
breaking records but is there actually a

702
00:30:11,610 --> 00:30:09,389
usain bolt's is the fastest human ever

703
00:30:13,380 --> 00:30:11,620
recorded in a race covering a hundred

704
00:30:16,080 --> 00:30:13,390
meters and a little over nine and a half

705
00:30:18,149 --> 00:30:16,090
seconds that gives him an average speed

706
00:30:20,220 --> 00:30:18,159
of around thirty seven kilometres an

707
00:30:22,500 --> 00:30:20,230
hour you may have thought that we might

708
00:30:24,450 --> 00:30:22,510
be reaching a limit of human speed as

709
00:30:26,490 --> 00:30:24,460
our bodies may not be able to take any

710
00:30:28,500 --> 00:30:26,500
higher impact forces through our legs

711
00:30:30,659 --> 00:30:28,510
but research found that hopping on one

712
00:30:32,909 --> 00:30:30,669
leg increased these forces by thirty

713
00:30:36,029 --> 00:30:32,919

percent more than sprinting which goes

714

00:30:37,799 --> 00:30:36,039

to show our bodies can take more instead

715

00:30:39,630 --> 00:30:37,809

researchers think that our speed is

716

00:30:41,760 --> 00:30:39,640

limited by how fast our muscles can

717

00:30:43,799 --> 00:30:41,770

contract and exert force during the

718

00:30:45,360 --> 00:30:43,809

extremely small amount of time athlete

719

00:30:47,760 --> 00:30:45,370

is on the ground which is less than

720

00:30:49,620 --> 00:30:47,770

one-tenth of a second during that short

721

00:30:51,659 --> 00:30:49,630

time the muscle needs to exert as much

722

00:30:54,120 --> 00:30:51,669

force as it can to propel someone

723

00:30:55,919 --> 00:30:54,130

forward looking at human physiology they

724

00:31:00,630 --> 00:30:55,929

estimate humans might be capable of

725

00:31:02,909 --> 00:31:00,640

running over 60 kilometres an hour well

726

00:31:04,470 --> 00:31:02,919

can humans really run 25k is now a

727

00:31:06,360 --> 00:31:04,480

faster than the current world record

728

00:31:09,269 --> 00:31:06,370

well humans are thoughts that have

729

00:31:11,070 --> 00:31:09,279

already run faster than bolt fossilized

730

00:31:13,440 --> 00:31:11,080

footprints found in Australia Shan

731

00:31:15,269 --> 00:31:13,450

ancient indigenous man running when they

732

00:31:17,810 --> 00:31:15,279

were measured it was calculated he was

733

00:31:20,549 --> 00:31:17,820

running at around 37 kilometres an hour

734

00:31:23,070 --> 00:31:20,559

so what that's the same speed as bolt

735

00:31:25,740 --> 00:31:23,080

but keep in mind this man was probably

736

00:31:27,870 --> 00:31:25,750

running through mud if not water give

737

00:31:29,880 --> 00:31:27,880

him modern shoes and a hard surface and

738

00:31:32,130 --> 00:31:29,890

it's likely he would have run around 45

739

00:31:34,019 --> 00:31:32,140

days an hour incredibly in the same

740

00:31:36,419 --> 00:31:34,029

group of footprints was a one-legged man

741

00:31:39,779 --> 00:31:36,429

hopping it over 20 kilometres an hour

742

00:31:43,419 --> 00:31:39,789

try doing that that's fast but not as

743

00:31:45,860 --> 00:31:43,429

fast as air for fast facts

744

00:31:47,149 --> 00:31:45,870

Usain Bolt's power output during a

745

00:31:50,149 --> 00:31:47,159

sprint is around three and a half

746

00:31:52,250 --> 00:31:50,159

horsepower ninety-two percent of bolts

747

00:31:54,860 --> 00:31:52,260

power is used to overcome aerodynamic

748

00:31:57,200 --> 00:31:54,870

drag only eight percent is responsible

749

00:31:59,450 --> 00:31:57,210

for his speed one characteristic of

750

00:32:01,519 --> 00:31:59,460

sprinters is short tendons and long toes

751
00:32:04,250 --> 00:32:01,529
which are thought to improve the effect

752
00:32:05,840 --> 00:32:04,260
of the calf muscles and swinging your

753
00:32:08,180 --> 00:32:05,850
arms when you run reduces energy

754
00:32:10,909 --> 00:32:08,190
expenditure by up to thirteen percent

755
00:32:12,799 --> 00:32:10,919
compared to holding them still that's it

756
00:32:14,630 --> 00:32:12,809
for this week in science for more

757
00:32:19,639 --> 00:32:14,640
information on the limits of human speed

758
00:32:22,549 --> 00:32:19,649
goes to the RLS website are I au s org a

759
00:32:25,340 --> 00:32:22,559
you follow us on twitter at ra oz and

760
00:32:43,100 --> 00:32:25,350
like us on facebook i'm ben lewis and

761
00:32:48,420 --> 00:32:46,260
ad hominem begging the question factoid

762
00:32:50,550 --> 00:32:48,430
propagation false analogy false cause

763
00:32:52,350 --> 00:32:50,560

false dichotomy gibberish immunized

764

00:32:53,850 --> 00:32:52,360

hypothesis moral equivalence poison the

765

00:32:56,490 --> 00:32:53,860

well simple modern certitude stacking

766

00:32:58,440 --> 00:32:56,500

the deck and WTF are just some of the

767

00:33:00,960 --> 00:32:58,450

fallacies we provide real life examples

768

00:33:04,860 --> 00:33:00,970

of in hunting humbug 101 a podcast about

769

00:33:18,370 --> 00:33:04,870

bad arguments check it out at WWF text

770

00:33:29,520 --> 00:33:20,890

what we want is some more evidence

771

00:33:29,530 --> 00:33:34,940

hello this is Joe alabasta

772

00:33:38,690 --> 00:33:37,100

this week a follow-up report on the

773

00:33:40,430 --> 00:33:38,700

underwear that claim to offer protection

774

00:33:43,850 --> 00:33:40,440

against allegedly harmful

775

00:33:46,700 --> 00:33:43,860

electromagnetic radiation back in May

776

00:33:48,950 --> 00:33:46,710

this year in episode 290 a brought your

777

00:33:50,960 --> 00:33:48,960

story on an IndieGoGo campaign and its

778

00:33:53,360 --> 00:33:50,970

subsequent media coverage for wireless

779

00:33:55,220 --> 00:33:53,370

armored Underpants made of fabric which

780

00:33:57,200 --> 00:33:55,230

contained a silver mesh which was

781

00:33:59,149 --> 00:33:57,210

claimed to protect men's testicles from

782

00:34:01,549 --> 00:33:59,159

radiation from mobile devices such as

783

00:34:04,490 --> 00:34:01,559

smartphones and laptops by behaving as a

784

00:34:07,789 --> 00:34:04,500

Faraday cage this story was also

785

00:34:09,649 --> 00:34:07,799

featured in skeptic magazine subsequent

786

00:34:12,730 --> 00:34:09,659

my report a complaint was lodged with

787

00:34:15,109 --> 00:34:12,740

us-based crowdfunding platform IndieGoGo

788

00:34:16,490 --> 00:34:15,119

unfortunately IndieGoGo trust and safety

789

00:34:18,260 --> 00:34:16,500
team didn't have a problem with

790

00:34:20,149 --> 00:34:18,270
facilitating fundraising for a non

791

00:34:23,899 --> 00:34:20,159
evidence based product stating that

792

00:34:26,750 --> 00:34:23,909
quote IndieGoGo is an equal opportunity

793

00:34:28,520 --> 00:34:26,760
platform we let our users decide whether

794

00:34:30,770 --> 00:34:28,530
they want to contribute and support the

795

00:34:32,810 --> 00:34:30,780
campaign after performing their own due

796

00:34:36,649 --> 00:34:32,820
diligence on the company CAD Bane owner

797

00:34:38,000 --> 00:34:36,659
and its cause and quote as such I'd

798

00:34:39,169 --> 00:34:38,010
recommend that anybody looking at

799

00:34:42,829 --> 00:34:39,179
supporting an IndieGoGo campaign

800

00:34:44,839 --> 00:34:42,839
practice due diligence another complaint

801
00:34:47,119 --> 00:34:44,849
was lodged this time with the

802
00:34:49,849 --> 00:34:47,129
advertising standards Association the

803
00:34:52,839 --> 00:34:49,859
a-si in the UK where the founder of

804
00:34:56,149 --> 00:34:52,849
wireless armor Joseph Perkins resides as

805
00:34:58,490 --> 00:34:56,159
a result of this complaint the a-si

806
00:35:02,200 --> 00:34:58,500
investigated two claims made by wireless

807
00:35:04,720 --> 00:35:02,210
armor one regarding the link between

808
00:35:08,960 --> 00:35:04,730
electromagnetic am radiation and

809
00:35:12,730 --> 00:35:08,970
infertility in men and two that the

810
00:35:15,319 --> 00:35:12,740
product could protect a user from am in

811
00:35:17,180 --> 00:35:15,329
response to point one wireless armor

812
00:35:19,220 --> 00:35:17,190
limited provided brief summaries of

813
00:35:21,140 --> 00:35:19,230

eight studies and three full papers

814

00:35:22,880 --> 00:35:21,150

which they believe demonstrated that

815

00:35:26,059 --> 00:35:22,890

mobile phone radiation had a negative

816

00:35:28,430 --> 00:35:26,069

impact on male fertility these were

817

00:35:33,109 --> 00:35:28,440

reviewed by the a-si their assessment is

818

00:35:35,240 --> 00:35:33,119

as follows quote the a-si reviewed only

819

00:35:36,680 --> 00:35:35,250

those papers supplied in full as we

820

00:35:37,940 --> 00:35:36,690

considered the summaries of the other

821

00:35:40,160 --> 00:35:37,950

studies did not provide sufficient

822

00:35:42,349 --> 00:35:40,170

detail regarding the subjects and

823

00:35:44,599 --> 00:35:42,359

methodology used to ascertain whether

824

00:35:46,309 --> 00:35:44,609

they had been conducted robustly we

825

00:35:48,810 --> 00:35:46,319

noted that the first paper studied the

826
00:35:50,520 --> 00:35:48,820
impact of am from a mobile phone owned

827
00:35:54,540 --> 00:35:50,530
when it was emitting a Bluetooth signal

828
00:35:55,860 --> 00:35:54,550
for an hour on in vitro human sperm we

829
00:35:58,890 --> 00:35:55,870
understood that the study involved

830
00:36:00,870 --> 00:35:58,900
samples collected from 32 males which

831
00:36:03,750 --> 00:36:00,880
are exposed to em from a phone position

832
00:36:05,940 --> 00:36:03,760
2.5 centimeters away to mimic close

833
00:36:08,430 --> 00:36:05,950
proximity of the testes to a cell phone

834
00:36:09,990 --> 00:36:08,440
in trouser pocket we noted that the

835
00:36:11,970 --> 00:36:10,000
paper concluded that mobile phone

836
00:36:14,700 --> 00:36:11,980
radiation led to a decrease in the

837
00:36:16,500 --> 00:36:14,710
motility and viability of the sperm but

838
00:36:18,450 --> 00:36:16,510

because male reproductive organs were

839

00:36:20,250 --> 00:36:18,460

separated by multiple tissue layers it

840

00:36:22,380 --> 00:36:20,260

was not possible to extrapolate the

841

00:36:23,910 --> 00:36:22,390

effects n under in vitro conditions to

842

00:36:27,450 --> 00:36:23,920

real-life conditions without further

843

00:36:30,180 --> 00:36:27,460

research the second study focused on the

844

00:36:33,450 --> 00:36:30,190

impact of am from mobile phone on male

845

00:36:35,550 --> 00:36:33,460

rat sperm in vivo the authors concluded

846

00:36:38,610 --> 00:36:35,560

that the a.m resulted in low sperm

847

00:36:40,560 --> 00:36:38,620

motility we considered however that a

848

00:36:42,750 --> 00:36:40,570

paper focused on the impact of mobile

849

00:36:44,700 --> 00:36:42,760

phone radiation on rats did not provide

850

00:36:46,740 --> 00:36:44,710

adequate evidence that the same impact

851
00:36:49,260 --> 00:36:46,750
would be experienced by humans in

852
00:36:51,960 --> 00:36:49,270
particular we noted that another of the

853
00:36:54,450 --> 00:36:51,970
papers provided stated that it was quote

854
00:36:56,250 --> 00:36:54,460
impractical to compare a rat model to

855
00:36:59,250 --> 00:36:56,260
humans because of its small testicular

856
00:37:01,260 --> 00:36:59,260
size non pendulous scrotum and the fact

857
00:37:03,240 --> 00:37:01,270
that its testes can migrate between the

858
00:37:07,650 --> 00:37:03,250
abdomen of the scrotum in the inguinal

859
00:37:09,780 --> 00:37:07,660
panel end quote the third paper explored

860
00:37:13,020 --> 00:37:09,790
the correlation if any between

861
00:37:15,840 --> 00:37:13,030
infertility and mobile phone usage the

862
00:37:18,060 --> 00:37:15,850
study involved 361 men who were

863
00:37:19,500 --> 00:37:18,070

undergoing infertility evaluation and

864

00:37:21,750 --> 00:37:19,510

who were divided into four groups

865

00:37:24,840 --> 00:37:21,760

according to their active mobile phone

866

00:37:27,120 --> 00:37:24,850

usage samples of the men's sperm were

867

00:37:29,040 --> 00:37:27,130

collected and analyzed and the results

868

00:37:31,200 --> 00:37:29,050

collected appeared to show an inverse

869

00:37:33,840 --> 00:37:31,210

correlation between mobile phone use and

870

00:37:36,810 --> 00:37:33,850

sperm count motility viability and

871

00:37:38,430 --> 00:37:36,820

normal morphology we noted however the

872

00:37:40,440 --> 00:37:38,440

authors acknowledged the study was

873

00:37:43,350 --> 00:37:40,450

limited as it had not taken into account

874

00:37:45,300 --> 00:37:43,360

relevant confounding factors such as the

875

00:37:47,100 --> 00:37:45,310

Occupational history of the subjects and

876

00:37:50,340 --> 00:37:47,110

their a.m. exposure from other sources

877

00:37:53,790 --> 00:37:50,350

such as radio towers PDAs Bluetooth

878

00:37:55,410 --> 00:37:53,800

devices computers and so forth the study

879

00:37:57,420 --> 00:37:55,420

also relied on the subjects

880

00:37:59,970 --> 00:37:57,430

self-perceived history as their mobile

881

00:38:01,740 --> 00:37:59,980

phone usage was not validated as you not

882

00:38:02,190 --> 00:38:01,750

consider the effects of mobile phones

883

00:38:05,700 --> 00:38:02,200

when

884

00:38:07,380 --> 00:38:05,710

in their standby position we also noted

885

00:38:09,839 --> 00:38:07,390

that the paper was unable to conclude

886

00:38:11,730 --> 00:38:09,849

whether the perceived negative impact

887

00:38:14,040 --> 00:38:11,740

was the result of a emitted from the

888

00:38:16,680 --> 00:38:14,050

phone or of the temperature of the test

889

00:38:18,540 --> 00:38:16,690

is increasing or both we therefore

890

00:38:20,250 --> 00:38:18,550

considered that none of the papers that

891

00:38:22,530 --> 00:38:20,260

have been provided demonstrated that

892

00:38:24,569 --> 00:38:22,540

mobile phone radiation had a proven

893

00:38:27,030 --> 00:38:24,579

negative impact on human male fertility

894

00:38:28,770 --> 00:38:27,040

and concluded that the claims asserting

895

00:38:32,339 --> 00:38:28,780

a link between the two were misleading

896

00:38:35,400 --> 00:38:32,349

on that point the ad breached c.a.p code

897

00:38:39,900 --> 00:38:35,410

edition 12 rules 3.1 misleading

898

00:38:42,420 --> 00:38:39,910

advertising 3.7 substantiation and 12.1

899

00:38:46,910 --> 00:38:42,430

medicines medical devices health-related

900

00:38:49,079 --> 00:38:46,920

products and beauty products and quote

901
00:38:51,060 --> 00:38:49,089
responding two points who that the

902
00:38:53,400 --> 00:38:51,070
product could protect a user from am

903
00:38:55,440 --> 00:38:53,410
wireless armor provided a test report

904
00:38:57,359 --> 00:38:55,450
from a third-party showing the results

905
00:38:59,609 --> 00:38:57,369
achieved when the fabric utilized by the

906
00:39:02,640 --> 00:38:59,619
product was tested for electromagnetic

907
00:39:04,319 --> 00:39:02,650
shielding they said the report showed

908
00:39:07,589 --> 00:39:04,329
that the fabric was able to shield a

909
00:39:09,510 --> 00:39:07,599
high degree of am wireless armor also

910
00:39:12,089 --> 00:39:09,520
explained that although the product had

911
00:39:13,890 --> 00:39:12,099
openings to allow consumer to wear it it

912
00:39:16,380 --> 00:39:13,900
was only when worn that the product

913
00:39:18,109 --> 00:39:16,390

approximated a Faraday cage as the holes

914

00:39:20,490 --> 00:39:18,119

were filled with the wearer's body as

915

00:39:23,579 --> 00:39:20,500

human flesh is not a good conductor of

916

00:39:26,490 --> 00:39:23,589

am it would dissipate the energy the

917

00:39:28,680 --> 00:39:26,500

ASA's assessment quote notwithstanding

918

00:39:31,349 --> 00:39:28,690

our assessment of point 1 above we

919

00:39:33,030 --> 00:39:31,359

reviewed the test report provided to see

920

00:39:35,640 --> 00:39:33,040

whether the product was able to shield

921

00:39:37,740 --> 00:39:35,650

whereas from a.m. we noted however that

922

00:39:39,270 --> 00:39:37,750

the report referred to a sample of the

923

00:39:40,829 --> 00:39:39,280

fabric that was used to construct the

924

00:39:42,960 --> 00:39:40,839

product and not to the product when

925

00:39:45,690 --> 00:39:42,970

assembled into pants and worn by

926
00:39:47,790 --> 00:39:45,700
consumers we therefore considered that

927
00:39:49,950 --> 00:39:47,800
the evidence provided was not sufficient

928
00:39:52,079 --> 00:39:49,960
to show that the product when utilized

929
00:39:54,630 --> 00:39:52,089
by consumers was able to prevent am

930
00:39:56,579 --> 00:39:54,640
reaching the genitals in the absence of

931
00:39:59,520 --> 00:39:56,589
any such evidence we concluded that the

932
00:40:01,890 --> 00:39:59,530
claims were misleading on that point the

933
00:40:05,640 --> 00:40:01,900
ad breached c.a.p code edition 12 rules

934
00:40:08,819 --> 00:40:05,650
3.1 misleading advertising 3.7

935
00:40:10,740 --> 00:40:08,829
substantiation and 12.1 medicines

936
00:40:15,270 --> 00:40:10,750
medical devices health-related products

937
00:40:16,030 --> 00:40:15,280
and beauty products end quote and here's

938
00:40:19,870 --> 00:40:16,040

the a-si

939

00:40:22,450 --> 00:40:19,880

ruling quote action the ad must not

940

00:40:24,400 --> 00:40:22,460

appear again in its current form we told

941

00:40:26,200 --> 00:40:24,410

wireless armored limited to ensure that

942

00:40:28,240 --> 00:40:26,210

they had adequate evidence to

943

00:40:32,590 --> 00:40:28,250

substantiate their efficacy claims in

944

00:40:34,720 --> 00:40:32,600

their marketing in future end quote you

945

00:40:36,730 --> 00:40:34,730

know I think this is fantastic that a

946

00:40:38,260 --> 00:40:36,740

thorough investigation into some strong

947

00:40:39,850 --> 00:40:38,270

key sounding advertising and a

948

00:40:41,440 --> 00:40:39,860

subsequent ruling prohibiting an

949

00:40:43,570 --> 00:40:41,450

advertiser from continuing to make

950

00:40:46,510 --> 00:40:43,580

misleading plans can be the result of

951
00:40:48,850 --> 00:40:46,520
one person writing a letter if you see

952
00:40:50,730 --> 00:40:48,860
something question being advertised go

953
00:40:53,620 --> 00:40:50,740
for it your letter could have an effect

954
00:40:56,470 --> 00:40:53,630
the a trip will see your go-to guys if

955
00:40:58,270 --> 00:40:56,480
you're in Australia there's actually

956
00:41:00,160 --> 00:40:58,280
been some media coverage on the ASA's

957
00:41:02,320 --> 00:41:00,170
ruling on wireless armor I'll provide

958
00:41:05,500 --> 00:41:02,330
some links to news stories on my blog at

959
00:41:07,930 --> 00:41:05,510
evidence please net and also a link to

960
00:41:09,730 --> 00:41:07,940
the ASA's ruling itself and wireless

961
00:41:12,490 --> 00:41:09,740
armors public statement following the

962
00:41:14,920 --> 00:41:12,500
ban on their advertising wireless armor

963
00:41:16,720 --> 00:41:14,930

themselves have retained over 16,000

964

00:41:18,640 --> 00:41:16,730

pounds raised by their IndieGoGo

965

00:41:21,000 --> 00:41:18,650

campaign and are still accepting

966

00:41:22,990 --> 00:41:21,010

pre-orders for their underwear range

967

00:41:24,850 --> 00:41:23,000

currently not a lot can be done about

968

00:41:27,340 --> 00:41:24,860

that but hopefully the ASA's

969

00:41:29,050 --> 00:41:27,350

investigation the ban on advertising and

970

00:41:30,790 --> 00:41:29,060

the media coverage surrounding the

971

00:41:32,500 --> 00:41:30,800

ruling will detract somewhat from the

972

00:41:34,900 --> 00:41:32,510

perceived credibility of this product

973

00:41:37,000 --> 00:41:34,910

before I go this way I'd like to give a

974

00:41:39,190 --> 00:41:37,010

shout-out to the science on top podcast

975

00:41:42,160 --> 00:41:39,200

the Australian podcast about science

976
00:41:43,750 --> 00:41:42,170
health and technology news they are kind

977
00:41:45,340 --> 00:41:43,760
enough to invite me to join their panel

978
00:41:47,290 --> 00:41:45,350
is a guest last week and I had a

979
00:41:50,380 --> 00:41:47,300
fantastic time chatting with ed Lucas

980
00:41:52,450 --> 00:41:50,390
and Penny thanks for having me on signs

981
00:41:54,700 --> 00:41:52,460
on top can be found at science on top

982
00:41:56,080 --> 00:41:54,710
calm it's a fun show and a great way to

983
00:41:58,270 --> 00:41:56,090
stay on top of some of the latest

984
00:42:21,250 --> 00:41:58,280
research and discoveries in the world of

985
00:42:24,950 --> 00:42:23,180
thanks again for listening to the

986
00:42:26,900 --> 00:42:24,960
skeptic zone wow what a show that was

987
00:42:28,100 --> 00:42:26,910
packed poor old Richard having to edit

988
00:42:29,630 --> 00:42:28,110

all this together when he's sick

989

00:42:32,480 --> 00:42:29,640

hopefully he'll be all better next week

990

00:42:35,300 --> 00:42:32,490

but is he sick or really just plain lazy

991

00:42:37,730 --> 00:42:35,310

you can find out in meeting myself and

992

00:42:40,670 --> 00:42:37,740

me and four other people this thursday

993

00:42:44,360 --> 00:42:40,680

night in sydney is sydney skeptics in

994

00:42:49,070 --> 00:42:44,370

the pub the details are at [meetup.com /](http://meetup.com/)

995

00:42:52,570 --> 00:42:49,080

aust skeptics that's [meetup.com / aust](http://meetup.com/)

996

00:42:55,390 --> 00:42:52,580

skeptics this is Maynard signing off

997

00:43:02,240 --> 00:42:55,400

that's a noise I make when I sign off

998

00:43:06,920 --> 00:43:02,250

well you've been listening to the

999

00:43:10,760 --> 00:43:06,930

skeptic zone visit our website at www