

1
00:00:06,570 --> 00:00:14,120
welcome to the skeptic zone the podcast

2
00:00:09,509 --> 00:00:14,120
from Australia for science and reason

3
00:00:20,420 --> 00:00:27,740
welcome to the skeptic zone episode

4
00:00:23,149 --> 00:00:30,859
number 101 for the 24th of sep tember

5
00:00:27,739 --> 00:00:33,049
2010 Richard Saunders here with you once

6
00:00:30,859 --> 00:00:35,988
again back in Sydney on today's episode

7
00:00:33,049 --> 00:00:38,448
we have two interviews for you the first

8
00:00:35,988 --> 00:00:41,320
one is with Fraser Cain from astronomy

9
00:00:38,448 --> 00:00:44,839
cast I caught up with Fraser at

10
00:00:41,320 --> 00:00:47,359
dragoncon in Atlanta Georgia that's

11
00:00:44,840 --> 00:00:50,170
followed by another interview from Tam 8

12
00:00:47,359 --> 00:00:53,570
in Las Vegas this time with massimo

13
00:00:50,170 --> 00:00:56,269
pallucci about his book nonsense on

14
00:00:53,570 --> 00:00:58,850
stilts and after that we have the think

15
00:00:56,268 --> 00:01:01,338
tank with special guests Maynard and a

16
00:00:58,850 --> 00:01:03,228
good friend of ours Meg who by the time

17
00:01:01,338 --> 00:01:05,870
this show comes out is on her way to

18
00:01:03,228 --> 00:01:07,489
Germany that's enough from me it's nice

19
00:01:05,870 --> 00:01:08,900
to be back in Sydney with my cats

20
00:01:07,489 --> 00:01:11,780
playing in the background they're

21
00:01:08,900 --> 00:01:14,090
teasing each other at well let's just

22
00:01:11,780 --> 00:01:16,299
get on with this episode of the skeptic

23
00:01:14,090 --> 00:01:16,299
zone

24
00:01:27,650 --> 00:01:32,040
listeners to the skeptics are no

25
00:01:29,728 --> 00:01:33,810
probably also fans I hope your fans of

26
00:01:32,040 --> 00:01:37,618
astronomy cast and we're lucky enough

27
00:01:33,810 --> 00:01:39,509
here at the lovely evening dinner on the

28
00:01:37,618 --> 00:01:42,060
last day of dragoncon to have one of the

29

00:01:39,509 --> 00:01:45,959
hosts of astronomy cast Fraser Cain

30
00:01:42,060 --> 00:01:47,790
hello hello as the auditor I'm doing

31
00:01:45,959 --> 00:01:50,609
well it's Kylie Sturgis is here with us

32
00:01:47,790 --> 00:01:52,680
Brian Dunning Daniel looks and people

33
00:01:50,609 --> 00:01:57,829
are just pouring in as we speak well one

34
00:01:52,680 --> 00:01:59,750
of them anyway n dr. Rachel ER now

35
00:01:57,829 --> 00:02:03,269
astronomy classes of course a

36
00:01:59,750 --> 00:02:06,929
wonderfully popular podcast all about

37
00:02:03,269 --> 00:02:10,199
astronomy with you and Pamela gay I what

38
00:02:06,929 --> 00:02:12,120
motivated you to to start that off well

39
00:02:10,199 --> 00:02:15,449
I'd uh I'd been doing a podcast on

40
00:02:12,120 --> 00:02:17,310
university day for about a year and I I

41
00:02:15,449 --> 00:02:20,099
enjoy the sort of random interviews with

42
00:02:17,310 --> 00:02:22,229
me with various astronomy professionals

43
00:02:20,099 --> 00:02:23,370

and I got I realized that I wanted to

44

00:02:22,229 --> 00:02:27,179

kind of take things to the next level

45

00:02:23,370 --> 00:02:29,909

and have a bit more of a almost an

46

00:02:27,180 --> 00:02:31,349

encyclopedia of an educational for my

47

00:02:29,909 --> 00:02:35,400

where we would instead of it being

48

00:02:31,349 --> 00:02:38,939

interviews on a news orientation more

49

00:02:35,400 --> 00:02:40,469

like we would we would explain topics

50

00:02:38,939 --> 00:02:41,669

from top to bottom and really give

51

00:02:40,469 --> 00:02:43,680

something that would stand the test of

52

00:02:41,669 --> 00:02:45,030

time it wouldn't be you know what's

53

00:02:43,680 --> 00:02:46,079

happening this week in space but

54

00:02:45,030 --> 00:02:47,519

something that you know you could come

55

00:02:46,079 --> 00:02:49,829

back three years five years ten years

56

00:02:47,519 --> 00:02:52,890

later and the podcast would still be as

57

00:02:49,829 --> 00:02:56,609

valuable as as it was when we recorded

58
00:02:52,889 --> 00:03:00,719
it so I I pitched the idea to this Phil

59
00:02:56,609 --> 00:03:03,269
Plait guy oh my god is my big idea and

60
00:03:00,719 --> 00:03:04,469
and Phil said no no I'm just I'm book

61
00:03:03,269 --> 00:03:07,530
too haven't you know I've got all this

62
00:03:04,469 --> 00:03:10,019
blog and I'm writing and I'm just too

63
00:03:07,530 --> 00:03:14,280
busy so and but he said you know but

64
00:03:10,019 --> 00:03:17,189
Pamela has just come up she was working

65
00:03:14,280 --> 00:03:20,310
on slacker astronomy she's great really

66
00:03:17,189 --> 00:03:23,400
knows her stuff and so I am I gave her a

67
00:03:20,310 --> 00:03:26,250
call and within

68
00:03:23,400 --> 00:03:28,680
three days we recorded the first episode

69
00:03:26,250 --> 00:03:30,719
of astronomy castle who just you know is

70
00:03:28,680 --> 00:03:33,989
just it was click right away I explained

71
00:03:30,719 --> 00:03:35,639
it she got it we ran a couple of ideas

72
00:03:33,989 --> 00:03:39,180
and one of what a short for nuts would

73
00:03:35,639 --> 00:03:41,518
be and and and started recording you

74
00:03:39,180 --> 00:03:43,950
know within within days and and and I

75
00:03:41,519 --> 00:03:45,989
actually announced that we were going to

76
00:03:43,949 --> 00:03:48,389
be doing it here at DragonCon what four

77
00:03:45,989 --> 00:03:49,709
years ago and so now we've just wrapped

78
00:03:48,389 --> 00:03:52,679
up her fourth year starting our fifth

79
00:03:49,709 --> 00:03:53,969
year yeah fifth year fifth year yeah

80
00:03:52,680 --> 00:03:55,340
we're starting the fifth year now so we

81
00:03:53,969 --> 00:03:58,318
have done for years of astronomy casa

82
00:03:55,340 --> 00:04:00,590
197 episodes of the show with the live

83
00:03:58,318 --> 00:04:03,689
show that we did just yesterday and

84
00:04:00,590 --> 00:04:05,250
we've done move 30 or 40 question shows

85
00:04:03,689 --> 00:04:07,500
as well so yeah we've got a lot yeah

86

00:04:05,250 --> 00:04:10,229
that's a very important part of your

87
00:04:07,500 --> 00:04:12,479
show of course other questions and I

88
00:04:10,229 --> 00:04:14,068
think you'll show thrives on questions

89
00:04:12,479 --> 00:04:16,379
doesn't it from this missing yeah the

90
00:04:14,068 --> 00:04:18,329
question shows are are you know just

91
00:04:16,379 --> 00:04:20,339
between you and me the question shows

92
00:04:18,329 --> 00:04:22,259
are my are my favorite part you and me

93
00:04:20,339 --> 00:04:25,019
and thousands died anyway yeah yeah if

94
00:04:22,259 --> 00:04:27,000
they won't tell anyone no no I love the

95
00:04:25,019 --> 00:04:28,918
question shows because you know with the

96
00:04:27,000 --> 00:04:32,610
with the regular topics you know we've

97
00:04:28,918 --> 00:04:34,918
got some preparation and and and we've

98
00:04:32,610 --> 00:04:36,598
got sort of a plan that we want to do

99
00:04:34,918 --> 00:04:38,639
but with the question shows it's just

100
00:04:36,598 --> 00:04:39,810

these the most amazing questions that

101

00:04:38,639 --> 00:04:43,019

come in from the listeners and we have

102

00:04:39,810 --> 00:04:44,310

no you know and you never even thought

103

00:04:43,019 --> 00:04:46,740

of that you know like someone asked me

104

00:04:44,310 --> 00:04:49,050

like what happens if a black hole

105

00:04:46,740 --> 00:04:51,210

collides with an antimatter black hole

106

00:04:49,050 --> 00:04:52,829

it had even occurred to us like I would

107

00:04:51,209 --> 00:04:55,019

have thought of that you know and then

108

00:04:52,829 --> 00:04:56,848

you're like well into Pamela's figuring

109

00:04:55,019 --> 00:04:59,519

out the what would happen and what would

110

00:04:56,848 --> 00:05:01,348

happen is nothing I mean it would be it

111

00:04:59,519 --> 00:05:03,299

would become a black hole with double

112

00:05:01,348 --> 00:05:04,680

the mass that it had before but it

113

00:05:03,300 --> 00:05:07,470

wouldn't be an explosion because nothing

114

00:05:04,680 --> 00:05:09,750

can leave the black hole so right so

115
00:05:07,470 --> 00:05:11,849
even if there was an explosion inside

116
00:05:09,750 --> 00:05:13,560
this newly forming thing it couldn't

117
00:05:11,848 --> 00:05:14,908
leave the black hole so you'd end up

118
00:05:13,560 --> 00:05:16,348
with just double the mess it doesn't

119
00:05:14,908 --> 00:05:18,658
matter to energy mass doesn't matter

120
00:05:16,348 --> 00:05:20,759
it's all just black hole so but and and

121
00:05:18,658 --> 00:05:22,079
that's just one example and some great

122
00:05:20,759 --> 00:05:23,908
questions and the kind the kinds of

123
00:05:22,079 --> 00:05:25,379
questions that you know that four year

124
00:05:23,908 --> 00:05:28,110
olds will ask you know like why is there

125
00:05:25,379 --> 00:05:30,139
something and not nothing and what is

126
00:05:28,110 --> 00:05:31,968
time and and in

127
00:05:30,139 --> 00:05:33,889
and those are the best questions and

128
00:05:31,968 --> 00:05:37,009
will and will take will take them all on

129
00:05:33,889 --> 00:05:38,749
we'll take the questions that are that

130
00:05:37,009 --> 00:05:42,110
even you know we feel like it's not a

131
00:05:38,749 --> 00:05:44,509
very good question but we'll try to take

132
00:05:42,110 --> 00:05:46,129
it on we'll try and upgrade the question

133
00:05:44,509 --> 00:05:48,169
you know we're going to get a sense of

134
00:05:46,129 --> 00:05:49,759
what they were going after and then try

135
00:05:48,168 --> 00:05:51,680
and really take a run at it no matter

136
00:05:49,759 --> 00:05:53,150
almost what the question is so I really

137
00:05:51,680 --> 00:05:54,468
look forward to you know we've kind of

138
00:05:53,149 --> 00:05:56,658
fell behind the question shows with

139
00:05:54,468 --> 00:05:58,610
Pamela's crazy travel but we're gonna

140
00:05:56,658 --> 00:06:02,839
try and get back to that now I've been

141
00:05:58,610 --> 00:06:04,759
running little ad spots for astronomy

142
00:06:02,839 --> 00:06:07,278
cast ever since the skeptic zone started

143

00:06:04,759 --> 00:06:10,129
and so I hope a lot of our listeners

144
00:06:07,278 --> 00:06:12,348
have decided to give it a try and I'm

145
00:06:10,129 --> 00:06:14,120
sure they're even more inspired now so I

146
00:06:12,348 --> 00:06:15,918
encourage our listeners if you have a

147
00:06:14,120 --> 00:06:18,949
question about the one was my mysteries

148
00:06:15,918 --> 00:06:20,448
of space like Cheryl does down there

149
00:06:18,949 --> 00:06:23,598
laughing at something Brian done is

150
00:06:20,449 --> 00:06:28,669
doing must be something to do with

151
00:06:23,598 --> 00:06:30,438
Vegemite they can write in and if not

152
00:06:28,668 --> 00:06:33,318
have their question is answered at least

153
00:06:30,439 --> 00:06:34,759
a decent attempt yeah I mean it's the

154
00:06:33,319 --> 00:06:36,560
number of questions we get it's pretty

155
00:06:34,759 --> 00:06:37,968
overwhelming but we you know we were

156
00:06:36,560 --> 00:06:39,949
doing and we're going to get back to his

157
00:06:37,968 --> 00:06:41,718

promise promise is a question show a

158

00:06:39,949 --> 00:06:44,120

week we try and get through 10 15

159

00:06:41,718 --> 00:06:46,278

questions every week so so we do you

160

00:06:44,120 --> 00:06:48,500

know we do take on as much of that stuff

161

00:06:46,278 --> 00:06:50,360

as we can and and that just you know

162

00:06:48,500 --> 00:06:52,519

that's it coming around we're we're

163

00:06:50,360 --> 00:06:55,180

we're explaining so much about space

164

00:06:52,519 --> 00:06:57,468

that are that the listeners are now

165

00:06:55,180 --> 00:06:59,028

understanding it so well that they've

166

00:06:57,468 --> 00:07:00,949

been then it's unlocking new questions

167

00:06:59,028 --> 00:07:03,348

for them and now I absolutely love it

168

00:07:00,949 --> 00:07:06,050

now it's interesting to note that the

169

00:07:03,348 --> 00:07:08,918

show's done in two locations you're in

170

00:07:06,050 --> 00:07:12,009

canada and of course pamela gays in

171

00:07:08,918 --> 00:07:15,079

edwardsville that's right yeah so I live

172
00:07:12,009 --> 00:07:17,149
halfway up vancouver island in a little

173
00:07:15,079 --> 00:07:19,338
town called Courtney for anyone who

174
00:07:17,149 --> 00:07:22,598
knows where that is and Pamela lives in

175
00:07:19,338 --> 00:07:26,629
illinois and so we do the whole show

176
00:07:22,598 --> 00:07:28,728
remotely we connect on skype i record my

177
00:07:26,629 --> 00:07:30,979
half a conversation she records her half

178
00:07:28,728 --> 00:07:32,159
of the conversation and then we we both

179
00:07:30,978 --> 00:07:34,229
ftp we

180
00:07:32,160 --> 00:07:37,710
both transmit our halves of the show

181
00:07:34,230 --> 00:07:39,509
into our engineer and he mixes it and

182
00:07:37,709 --> 00:07:40,979
adjust the levels and makes it sound

183
00:07:39,509 --> 00:07:44,909
like we're in the same room and in fact

184
00:07:40,980 --> 00:07:47,520
we had never met for the first 18 months

185
00:07:44,910 --> 00:07:48,810
of doing the show no yeah yeah and

186
00:07:47,519 --> 00:07:49,949
nobody had no one there they go we

187
00:07:48,810 --> 00:07:51,389
thought you couldn't believe that we

188
00:07:49,949 --> 00:07:52,920
weren't in the same room it's just you

189
00:07:51,389 --> 00:07:55,229
know once again like I said just the

190
00:07:52,920 --> 00:07:56,100
chemistry right away really worked well

191
00:07:55,230 --> 00:07:58,319
and so we were able to have that

192
00:07:56,100 --> 00:08:00,060
conversation and now you know now we've

193
00:07:58,319 --> 00:08:01,889
met a bunch of times and in fact here at

194
00:08:00,060 --> 00:08:04,350
the Dragon Con we did our first live

195
00:08:01,889 --> 00:08:05,819
show together you know Pamela is usually

196
00:08:04,350 --> 00:08:07,140
able to do all the live shows and this

197
00:08:05,819 --> 00:08:08,909
is the first time I thought I was able

198
00:08:07,139 --> 00:08:12,089
to able to you know get me off of the

199
00:08:08,910 --> 00:08:18,090
island in to do the show which is great

200

00:08:12,089 --> 00:08:21,239
is that any way need Gibson um yes yeah

201
00:08:18,089 --> 00:08:24,539
I'm sure the Australian listeners of my

202
00:08:21,240 --> 00:08:27,329
vintage would know Gibson from the beach

203
00:08:24,540 --> 00:08:30,240
connoisseurs of course yeah yeah so we

204
00:08:27,329 --> 00:08:33,899
are the island i live on is is is sort

205
00:08:30,240 --> 00:08:35,610
of across the strait of georgia from

206
00:08:33,899 --> 00:08:37,590
gibson where the Beachcomber sir so

207
00:08:35,610 --> 00:08:39,060
that's a real profession in that part of

208
00:08:37,590 --> 00:08:43,500
the world is beachcombing like they were

209
00:08:39,059 --> 00:08:45,329
on the TV ah not sure how much you

210
00:08:43,500 --> 00:08:47,820
losers want to hear about this um i

211
00:08:45,330 --> 00:08:49,379
want.i there's a ton of logging in

212
00:08:47,820 --> 00:08:54,150
british columbia up and down vancouver

213
00:08:49,379 --> 00:08:57,480
island and they have these huge barges

214
00:08:54,149 --> 00:09:00,269

filled with with logs and the logs will

215

00:08:57,480 --> 00:09:01,620

will will disconnect from the barge and

216

00:09:00,269 --> 00:09:02,699

just float free and end up on the

217

00:09:01,620 --> 00:09:06,060

beaches

218

00:09:02,700 --> 00:09:07,560

and so but all of the logs will all have

219

00:09:06,059 --> 00:09:10,979

a stamp on them and they're all owned by

220

00:09:07,559 --> 00:09:14,819

the timber companies and so people will

221

00:09:10,980 --> 00:09:16,649

go and they will hook up a line and

222

00:09:14,820 --> 00:09:19,620

they'll pull these logs back off of the

223

00:09:16,649 --> 00:09:20,519

beaches and sell them either either you

224

00:09:19,620 --> 00:09:21,659

know they'll sell them back to the

225

00:09:20,519 --> 00:09:23,340

logging companies or sell them on the

226

00:09:21,659 --> 00:09:26,219

roulade I don't know any beach cover

227

00:09:23,340 --> 00:09:28,320

these doesn't happen you know very often

228

00:09:26,220 --> 00:09:29,759

but that's but there's there's a lot of

229
00:09:28,320 --> 00:09:31,740
you know driftwood and stuff that comes

230
00:09:29,759 --> 00:09:34,769
up soon well I use do you remember that

231
00:09:31,740 --> 00:09:39,180
that show reishi the beachcombers no I'm

232
00:09:34,769 --> 00:09:42,299
home nice chicken but what if Thomas I

233
00:09:39,179 --> 00:09:47,669
was sorry but I never saw you do do do

234
00:09:42,299 --> 00:09:50,429
do did it and relegate young guy who's

235
00:09:47,669 --> 00:09:52,319
there and now what was that Nick adana

236
00:09:50,429 --> 00:09:53,939
des or something like that Molly's reach

237
00:09:52,320 --> 00:09:55,290
yeah I know we used to watch that as

238
00:09:53,940 --> 00:09:58,080
well I mean there's you know we only had

239
00:09:55,289 --> 00:09:59,339
with CBC and in a couple of the channels

240
00:09:58,080 --> 00:10:00,870
and that was one of these you watched on

241
00:09:59,340 --> 00:10:06,620
like sunday night you know right before

242
00:10:00,870 --> 00:10:09,419
it before Fraggle Rock The Muppets yeah

243

00:10:06,620 --> 00:10:11,070

oh that's fantastic so listeners I

244

00:10:09,419 --> 00:10:13,439

sincerely encourage you if you haven't

245

00:10:11,070 --> 00:10:16,680

tried a astronomy cast with Fraser and

246

00:10:13,440 --> 00:10:19,530

Pamela it's such a wonderful show they

247

00:10:16,679 --> 00:10:22,589

do it so well and i do i love the

248

00:10:19,529 --> 00:10:23,879

questions but people send you in and

249

00:10:22,590 --> 00:10:25,230

they're not really trying to stump you

250

00:10:23,879 --> 00:10:26,879

but they're just trying to find out the

251

00:10:25,230 --> 00:10:29,250

answer to these these interesting things

252

00:10:26,879 --> 00:10:32,159

so thank you for your time tonight over

253

00:10:29,250 --> 00:10:33,690

your dinner and good luck in the future

254

00:10:32,159 --> 00:10:35,399

well thanks a lot Richard it's great to

255

00:10:33,690 --> 00:10:37,520

see you again and we'll talk to you

256

00:10:35,399 --> 00:10:37,519

online

257

00:10:50,350 --> 00:10:54,769
astronomy cast who takes a fact space

258
00:10:52,700 --> 00:10:56,480
journey through the cosmos as it offers

259
00:10:54,769 --> 00:10:59,179
listeners weekly discussions on

260
00:10:56,480 --> 00:11:02,089
astronomical topics ranging from planets

261
00:10:59,179 --> 00:11:04,370
to cosmology hosted by Fraser Cain of

262
00:11:02,089 --> 00:11:05,390
Universe Today and myself dr. Pamela

263
00:11:04,370 --> 00:11:08,060
gave southern illinois university

264
00:11:05,389 --> 00:11:09,919
edwardsville this show brings the

265
00:11:08,059 --> 00:11:12,379
questions of an avid astronomy lover

266
00:11:09,919 --> 00:11:14,449
directly to an astronomer together

267
00:11:12,379 --> 00:11:16,009
Fraser and I explore what is known and

268
00:11:14,450 --> 00:11:18,770
being discovered about the universe

269
00:11:16,009 --> 00:11:20,838
around us join us each week as we take a

270
00:11:18,769 --> 00:11:24,399
fact space journey through the cosmos at

271
00:11:20,839 --> 00:11:24,400

astronomy cast calm

272

00:11:33,879 --> 00:11:39,649

Massimo pallucci is a professor of

273

00:11:36,259 --> 00:11:41,899

psychology in New York City his research

274

00:11:39,649 --> 00:11:43,819

is concerned with philosophy of science

275

00:11:41,899 --> 00:11:45,860

the relationship between science and

276

00:11:43,820 --> 00:11:48,560

philosophy and the relationship between

277

00:11:45,860 --> 00:11:51,019

science and religion his latest book is

278

00:11:48,559 --> 00:11:53,269

nonsense on stilts how to tell science

279

00:11:51,019 --> 00:11:55,699

from bunk and guest speaker at the

280

00:11:53,269 --> 00:12:02,269

amazing meeting eight he took time out

281

00:11:55,700 --> 00:12:04,070

to have a chat with me and now I'm

282

00:12:02,269 --> 00:12:06,649

delighted to be talking with her Massimo

283

00:12:04,070 --> 00:12:08,120

pallucci hello hi it's a very nice of

284

00:12:06,649 --> 00:12:10,490

you to give me some time here at the

285

00:12:08,120 --> 00:12:12,500

amazing meeting aid it's a pleasure and

286
00:12:10,490 --> 00:12:14,269
I noticed you was scheduled to talk this

287
00:12:12,500 --> 00:12:16,789
morning but I think they've juggled the

288
00:12:14,269 --> 00:12:18,500
yeah my friend Michael Shermer asked me

289
00:12:16,789 --> 00:12:19,969
to switch because he's giving another

290
00:12:18,500 --> 00:12:22,070
talk tomorrow at a libertarian meeting

291
00:12:19,970 --> 00:12:23,570
of all things oh really in town yes ok

292
00:12:22,070 --> 00:12:26,750
well it's nice of you to do that

293
00:12:23,570 --> 00:12:28,040
although I was very keen to to do he you

294
00:12:26,750 --> 00:12:31,159
speak i'll have to wait till tomorrow a

295
00:12:28,039 --> 00:12:33,049
few hours yes if you more now your

296
00:12:31,159 --> 00:12:36,019
publishers very kindly sent me a copy of

297
00:12:33,049 --> 00:12:38,419
your book nonsense on stilts which has a

298
00:12:36,019 --> 00:12:40,879
great cover of course with the the fit

299
00:12:38,419 --> 00:12:42,979
why do we have fish walking on stilts

300
00:12:40,879 --> 00:12:44,059
because that's so ridiculous it is good

301
00:12:42,980 --> 00:12:46,970
that's right so ridiculous that's

302
00:12:44,059 --> 00:12:48,919
actually an illustration from a book on

303
00:12:46,970 --> 00:12:51,649
nonsense that was published in the 19th

304
00:12:48,919 --> 00:12:53,269
century and and that's that we got these

305
00:12:51,649 --> 00:12:55,459
idea that it's really represented

306
00:12:53,269 --> 00:12:57,559
captures you know the absurdity of some

307
00:12:55,460 --> 00:12:59,240
pseudo scientific notions it's just like

308
00:12:57,559 --> 00:13:03,559
having a really really tall order of

309
00:12:59,240 --> 00:13:05,840
nonsense so as crazy as it looks a fish

310
00:13:03,559 --> 00:13:08,779
on land walking on stairs right with

311
00:13:05,840 --> 00:13:10,879
little boots on that's right and how

312
00:13:08,779 --> 00:13:13,669
long is this book been out now I just

313
00:13:10,879 --> 00:13:15,799
came out a few weeks ago and you know

314

00:13:13,669 --> 00:13:18,049
I'm very pleased with it it's been doing

315
00:13:15,799 --> 00:13:19,549
very well it's more important track I

316
00:13:18,049 --> 00:13:21,859
think it was a lot of fun to write them

317
00:13:19,549 --> 00:13:25,009
oh that's so good that's important now

318
00:13:21,860 --> 00:13:27,080
really who you aiming this book at is is

319
00:13:25,009 --> 00:13:28,399
it aimed at the general skeptical

320
00:13:27,080 --> 00:13:30,740
audience or is it aimed at people who

321
00:13:28,399 --> 00:13:33,559
are very interested in the skeptical and

322
00:13:30,740 --> 00:13:36,769
critical thinking the idea is to write

323
00:13:33,559 --> 00:13:37,819
for the general public for the what one

324
00:13:36,769 --> 00:13:39,829
might refer to as the average

325
00:13:37,820 --> 00:13:42,680
intelligent reader meaning somebody who

326
00:13:39,830 --> 00:13:43,730
has you know a college background that

327
00:13:42,679 --> 00:13:46,250
is enough

328
00:13:43,730 --> 00:13:47,570

to understand appreciate basic issues in

329

00:13:46,250 --> 00:13:50,299
science there's no requirement for

330

00:13:47,570 --> 00:13:52,070
actual background in science or in

331

00:13:50,299 --> 00:13:53,569
philosophy for that matter although the

332

00:13:52,070 --> 00:13:55,250
book does touch on a lot of

333

00:13:53,570 --> 00:13:57,230
philosophical issues philosophy of

334

00:13:55,250 --> 00:13:58,698
science issues but the idea is to reach

335

00:13:57,230 --> 00:14:00,379
as broad an audience as possible because

336

00:13:58,698 --> 00:14:01,639
as you know you know it's easy enough to

337

00:14:00,379 --> 00:14:03,078
talk to skeptics I mean we have a

338

00:14:01,639 --> 00:14:05,000
wonderful meeting here at twelve

339

00:14:03,078 --> 00:14:06,409
thirteen hundred people yeah but in some

340

00:14:05,000 --> 00:14:08,600
sense that isn't fat talking to the

341

00:14:06,409 --> 00:14:11,360
converts of course and the idea is to

342

00:14:08,600 --> 00:14:14,240
try to stretch a little bit what we can

343
00:14:11,360 --> 00:14:17,600
reach and in who we can get interested

344
00:14:14,240 --> 00:14:18,769
in a basic understanding of science and

345
00:14:17,600 --> 00:14:22,100
the difference between it and

346
00:14:18,769 --> 00:14:23,539
pseudoscience right right and I know

347
00:14:22,100 --> 00:14:25,790
it's only been out for short time then

348
00:14:23,539 --> 00:14:28,969
but have you had some good feedback from

349
00:14:25,789 --> 00:14:30,198
it already yes you know the I get of

350
00:14:28,970 --> 00:14:32,509
course feedback through all sorts of

351
00:14:30,198 --> 00:14:35,359
means these days you know Facebook and

352
00:14:32,509 --> 00:14:38,838
nah i love the social networking on my

353
00:14:35,360 --> 00:14:40,339
blog and and of course on the amazon

354
00:14:38,839 --> 00:14:41,870
rankings you know people start writing

355
00:14:40,339 --> 00:14:43,370
reviews and all that sort stuff so it's

356
00:14:41,870 --> 00:14:46,549
very actually it's very very interesting

357
00:14:43,370 --> 00:14:50,169
to get that kind of feedback as an

358
00:14:46,549 --> 00:14:52,429
author because you really get a sense of

359
00:14:50,169 --> 00:14:53,990
how you know how many different ways

360
00:14:52,429 --> 00:14:56,239
what you write can actually be

361
00:14:53,990 --> 00:14:58,100
understood or interpreted or what is it

362
00:14:56,240 --> 00:15:00,799
yeah what is it that made some people

363
00:14:58,100 --> 00:15:02,990
take for instance one of the positive

364
00:15:00,799 --> 00:15:05,958
reviews that came out early on for the

365
00:15:02,990 --> 00:15:08,690
book was in the independent i believe

366
00:15:05,958 --> 00:15:11,479
british paper and they focused entirely

367
00:15:08,690 --> 00:15:12,829
on the chapter on global warming and you

368
00:15:11,480 --> 00:15:14,300
know that's because that was their issue

369
00:15:12,828 --> 00:15:16,879
at that at that point i'm not surprised

370
00:15:14,299 --> 00:15:20,240
yes yes I noticed there was a chapter

371

00:15:16,879 --> 00:15:23,509
dealing with that um now we on the

372
00:15:20,240 --> 00:15:25,310
skeptical zone podcasts weird sort of

373
00:15:23,509 --> 00:15:29,958
steer clear of that issue a little bit

374
00:15:25,309 --> 00:15:32,568
wisely sorry because I it's it's unlike

375
00:15:29,958 --> 00:15:36,318
any other topic I've seen in my years of

376
00:15:32,568 --> 00:15:39,409
being in the skeptical movement it's it's

377
00:15:36,318 --> 00:15:41,689
such passion yes from both sides both

378
00:15:39,409 --> 00:15:43,278
sides and if I did this is what we'll be

379
00:15:41,690 --> 00:15:45,290
talking about tomorrow in my

380
00:15:43,278 --> 00:15:48,259
presentation here the question that

381
00:15:45,289 --> 00:15:51,198
fascinating fascinates me is what

382
00:15:48,259 --> 00:15:53,720
exactly is the role of skeptics in terms

383
00:15:51,198 --> 00:15:55,399
of mediating between science and the

384
00:15:53,720 --> 00:15:56,830
general public the way I always

385
00:15:55,399 --> 00:15:59,720

understood the skeptical moment

386

00:15:56,830 --> 00:16:01,850

was on two levels on the one hand we're

387

00:15:59,720 --> 00:16:04,460

very good at doing debunking of things

388

00:16:01,850 --> 00:16:07,310

that are obviously well known to be buck

389

00:16:04,460 --> 00:16:09,530

you know so astrology parapsychology you

390

00:16:07,309 --> 00:16:11,449

followed you all these other things we

391

00:16:09,529 --> 00:16:12,649

know how to do it we are probably the

392

00:16:11,450 --> 00:16:14,600

best people to do it better than

393

00:16:12,649 --> 00:16:15,860

scientists because scientists don't have

394

00:16:14,600 --> 00:16:17,240

the time that I've the background and

395

00:16:15,860 --> 00:16:19,070

enter training don't have the training

396

00:16:17,240 --> 00:16:20,870

exactly that's why James Randi so good

397

00:16:19,070 --> 00:16:22,550

yeah what it does for Penn & Teller you

398

00:16:20,870 --> 00:16:25,399

know that because they know where the

399

00:16:22,549 --> 00:16:27,589

tricks are in how to uncover them so

400
00:16:25,399 --> 00:16:29,240
that's 11 11 the second thing that I

401
00:16:27,590 --> 00:16:32,629
thought always thought the skeptic

402
00:16:29,240 --> 00:16:35,509
moment was about was to promote critical

403
00:16:32,629 --> 00:16:37,639
thinking and understanding of science in

404
00:16:35,509 --> 00:16:39,620
other words as skeptics as mediators

405
00:16:37,639 --> 00:16:41,509
between the professional scientists who

406
00:16:39,620 --> 00:16:44,120
often either don't have the time or the

407
00:16:41,509 --> 00:16:46,759
inclination or the incentive to write

408
00:16:44,120 --> 00:16:48,230
for general public and the public but

409
00:16:46,759 --> 00:16:49,669
when it comes to thing issues like

410
00:16:48,230 --> 00:16:50,750
global warming that's an interesting

411
00:16:49,669 --> 00:16:52,939
there's an interesting situation because

412
00:16:50,750 --> 00:16:55,159
that's an area where skeptics do not

413
00:16:52,940 --> 00:16:57,710
have expertise you know most kept

414
00:16:55,159 --> 00:16:59,659
exogenous climate climate change you

415
00:16:57,710 --> 00:17:02,360
know change a scientist yeah they

416
00:16:59,659 --> 00:17:03,769
literally do not know what goes into the

417
00:17:02,360 --> 00:17:05,360
climate change models they don't

418
00:17:03,769 --> 00:17:07,730
understand the data they understand the

419
00:17:05,359 --> 00:17:09,619
science behind it nor we should really

420
00:17:07,730 --> 00:17:11,420
expect them to because it's not there

421
00:17:09,619 --> 00:17:14,209
there I really well it's it's like

422
00:17:11,420 --> 00:17:15,950
asking the general public to have our

423
00:17:14,210 --> 00:17:18,319
expertise when it comes to spotting the

424
00:17:15,950 --> 00:17:20,990
critical thinking recently they don't

425
00:17:18,319 --> 00:17:23,179
and why should they exactly so but then

426
00:17:20,990 --> 00:17:25,279
what makes it puzzling then is that you

427
00:17:23,180 --> 00:17:28,580
would expect therefore that skeptics

428

00:17:25,279 --> 00:17:30,559
would take about climate change the same

429
00:17:28,579 --> 00:17:34,220
exact latitude that they take about say

430
00:17:30,559 --> 00:17:35,599
evolution or the connection between HIV

431
00:17:34,220 --> 00:17:37,400
and AIDS or the connection between

432
00:17:35,599 --> 00:17:38,689
vaccines and audit and all those kind of

433
00:17:37,400 --> 00:17:40,310
things in other words they will look at

434
00:17:38,690 --> 00:17:41,750
the scientific literature what the

435
00:17:40,309 --> 00:17:43,039
scientific consensus is and they will

436
00:17:41,750 --> 00:17:44,630
say and then we're trying to explain to

437
00:17:43,039 --> 00:17:46,579
the public look here is the best

438
00:17:44,630 --> 00:17:48,350
understanding that we have course

439
00:17:46,579 --> 00:17:50,599
science is always fallible of course our

440
00:17:48,349 --> 00:17:51,799
understanding can always change but at

441
00:17:50,599 --> 00:17:54,169
the moment this is the best

442
00:17:51,799 --> 00:17:57,079

understanding well we do that with

443

00:17:54,170 --> 00:17:59,090

evolution we do that with with HIV we do

444

00:17:57,079 --> 00:18:01,009

that with vaccines but we don't do it or

445

00:17:59,089 --> 00:18:02,539

some of us the good climate change

446

00:18:01,009 --> 00:18:05,809

that's right and it's very interesting

447

00:18:02,539 --> 00:18:07,670

to ask why and I think you know what I

448

00:18:05,809 --> 00:18:09,669

suggest in the book is that the reason

449

00:18:07,670 --> 00:18:12,370

for that is because there is a

450

00:18:09,670 --> 00:18:14,620

the number of skeptics who are committed

451

00:18:12,369 --> 00:18:16,029

libertarians who are you essentially

452

00:18:14,619 --> 00:18:18,339

committed to a particular political

453

00:18:16,029 --> 00:18:21,129

world view now we all are I mean I have

454

00:18:18,339 --> 00:18:22,599

my own political views obviously if you

455

00:18:21,130 --> 00:18:23,920

did not have your political views that

456

00:18:22,599 --> 00:18:26,769

would make you a very strange and

457
00:18:23,920 --> 00:18:28,900
unconnected individual in society right

458
00:18:26,769 --> 00:18:33,849
but but the libertarian worldview is

459
00:18:28,900 --> 00:18:35,980
such that it easily gravitates toward a

460
00:18:33,849 --> 00:18:39,309
rejection of certain aspect of science

461
00:18:35,980 --> 00:18:41,319
because they seem to understand that a

462
00:18:39,309 --> 00:18:42,819
particularly acceptance for instance of

463
00:18:41,319 --> 00:18:45,519
the notion of climate change then

464
00:18:42,819 --> 00:18:47,589
automatically leads to certain kinds of

465
00:18:45,519 --> 00:18:49,269
measures that are heavily you know

466
00:18:47,589 --> 00:18:50,529
involved with government intervention

467
00:18:49,269 --> 00:18:52,150
and that sort of thing and since they do

468
00:18:50,529 --> 00:18:55,119
not like the idea of government

469
00:18:52,150 --> 00:18:56,860
invention then they reject the science I

470
00:18:55,119 --> 00:18:59,139
think that's not a rational approach

471
00:18:56,859 --> 00:19:01,959
there is a distinction between the

472
00:18:59,140 --> 00:19:03,880
science itself and what you do about it

473
00:19:01,960 --> 00:19:05,829
if you agree that there is a problem so

474
00:19:03,880 --> 00:19:07,270
the policy in other words now as far as

475
00:19:05,829 --> 00:19:09,460
the science I think there is very little

476
00:19:07,269 --> 00:19:11,589
discussion that skeptics can it can

477
00:19:09,460 --> 00:19:13,240
participate to simply because they don't

478
00:19:11,589 --> 00:19:14,349
have the technical know-how they just

479
00:19:13,240 --> 00:19:16,120
don't know literally they don't know

480
00:19:14,349 --> 00:19:18,399
what you're talking about yeah yeah now

481
00:19:16,119 --> 00:19:20,199
the scientist again you know you can

482
00:19:18,400 --> 00:19:22,630
always find of course scientists who

483
00:19:20,200 --> 00:19:24,009
disagree on whatever consensus general

484
00:19:22,630 --> 00:19:25,330
consensus there is within the community

485

00:19:24,009 --> 00:19:27,039
you can find biologists we don't believe

486
00:19:25,329 --> 00:19:28,750
in evolution and so I'm sure you can

487
00:19:27,039 --> 00:19:31,149
find climate scientists who don't think

488
00:19:28,750 --> 00:19:32,680
that climate change is happening but my

489
00:19:31,150 --> 00:19:34,360
understanding of the literature is that

490
00:19:32,680 --> 00:19:35,590
in fact you would want a majority of the

491
00:19:34,359 --> 00:19:39,159
people who know what they're talking

492
00:19:35,589 --> 00:19:40,119
about agrees that the best conclusion at

493
00:19:39,160 --> 00:19:42,700
the moment is that it is in fact

494
00:19:40,119 --> 00:19:45,429
happening in and it is at least in part

495
00:19:42,700 --> 00:19:47,410
human cost given that that's what we

496
00:19:45,430 --> 00:19:49,150
skeptics should accept because we do not

497
00:19:47,410 --> 00:19:51,550
have the expertise to challenge that

498
00:19:49,150 --> 00:19:53,800
particular conclusion when it comes to

499
00:19:51,549 --> 00:19:55,569

policies to okay well what we're going

500

00:19:53,799 --> 00:19:56,859

to do about at this point that's a

501

00:19:55,569 --> 00:19:58,629

different matter because then it's a

502

00:19:56,859 --> 00:20:00,129

question of not only expertise I mean

503

00:19:58,630 --> 00:20:02,080

there to you do need expertise because

504

00:20:00,130 --> 00:20:05,170

what to do about it it's also impart the

505

00:20:02,079 --> 00:20:07,210

technical question but how you're going

506

00:20:05,170 --> 00:20:08,650

to go about deploying certain measures

507

00:20:07,210 --> 00:20:10,329

or others that becomes a matter of

508

00:20:08,650 --> 00:20:12,070

policy make it and it does become a

509

00:20:10,329 --> 00:20:15,009

matter of politics so there I can't

510

00:20:12,069 --> 00:20:16,720

understand how there can be a reasonable

511

00:20:15,009 --> 00:20:18,160

discussion about well how much

512

00:20:16,720 --> 00:20:19,630

government of engine you want to do and

513

00:20:18,160 --> 00:20:21,880

under what constrains and so on and so

514
00:20:19,630 --> 00:20:23,230
forth but the two aspects are separate

515
00:20:21,880 --> 00:20:25,990
and it's interesting to me too

516
00:20:23,230 --> 00:20:28,058
see a group of you know critical

517
00:20:25,990 --> 00:20:29,650
thinkers people who otherwise like you

518
00:20:28,058 --> 00:20:32,200
know my colleague span and Teller or

519
00:20:29,650 --> 00:20:33,610
James R and himself or Michael Shermer

520
00:20:32,200 --> 00:20:37,210
until a few years ago he changed his

521
00:20:33,609 --> 00:20:38,740
mine recently to his credit he looked at

522
00:20:37,210 --> 00:20:40,360
the data i looked at the publications in

523
00:20:38,740 --> 00:20:42,130
the technical literature in said yeah

524
00:20:40,359 --> 00:20:44,500
guys that it doesn't make any sense to

525
00:20:42,130 --> 00:20:46,210
deny that there's no change so you came

526
00:20:44,500 --> 00:20:47,650
around but it's interesting to see these

527
00:20:46,210 --> 00:20:49,509
people who are obviously intelligent

528
00:20:47,650 --> 00:20:50,980
people who are obviously critically in

529
00:20:49,509 --> 00:20:54,009
your trained in critical thinking and

530
00:20:50,980 --> 00:20:56,349
yet they make what I think are fairly

531
00:20:54,009 --> 00:20:58,089
major blunders because of a particular

532
00:20:56,349 --> 00:20:59,798
ideological position that it's so

533
00:20:58,089 --> 00:21:03,159
important to them in terms of politics

534
00:20:59,798 --> 00:21:06,220
Paula because as our saying it's it's

535
00:21:03,160 --> 00:21:08,950
it's a topic which brings the passion so

536
00:21:06,220 --> 00:21:11,410
I've rarely seen and it's very

537
00:21:08,950 --> 00:21:15,130
interesting when someone will come to to

538
00:21:11,410 --> 00:21:17,440
me as a skeptic the media in Australia

539
00:21:15,130 --> 00:21:20,350
for example and they will expect me to

540
00:21:17,440 --> 00:21:22,779
be a global warming skeptic grow desire

541
00:21:20,349 --> 00:21:25,269
or whatever the case may be and when I

542

00:21:22,779 --> 00:21:27,069
put it to some journalists basically

543
00:21:25,269 --> 00:21:29,259
what you said to me no I'm not an expert

544
00:21:27,069 --> 00:21:32,168
and I must go with a consensus of

545
00:21:29,259 --> 00:21:35,019
scientific opinion they were really

546
00:21:32,169 --> 00:21:37,870
disappointed right that's in part if I

547
00:21:35,019 --> 00:21:39,429
think I think is a result of the use of

548
00:21:37,869 --> 00:21:41,619
the word skeptic I mean I love the word

549
00:21:39,429 --> 00:21:44,200
scale yeah I guess I'm proud to be a

550
00:21:41,619 --> 00:21:45,339
skeptic and and to me there isn't you

551
00:21:44,200 --> 00:21:47,380
know interesting connection of course

552
00:21:45,339 --> 00:21:50,619
with the history of skepticism both in

553
00:21:47,380 --> 00:21:52,030
the sense that we of the word that we

554
00:21:50,619 --> 00:21:53,319
mean today and of course in the in the

555
00:21:52,029 --> 00:21:55,269
classical sense of you know the

556
00:21:53,319 --> 00:21:56,918

skeptical philosophers it's all very

557

00:21:55,269 --> 00:21:58,869

interesting and it's a great word and we

558

00:21:56,919 --> 00:22:00,520

should retain it unfortunately wherever

559

00:21:58,869 --> 00:22:02,678

it does have a couple of connotations

560

00:22:00,519 --> 00:22:04,269

that are difficult to get the general

561

00:22:02,679 --> 00:22:05,860

public away from one of them is that

562

00:22:04,269 --> 00:22:07,418

you're a skeptic you must be all so

563

00:22:05,859 --> 00:22:09,639

cynical somehow cynically you know

564

00:22:07,419 --> 00:22:11,380

you're not you're not fun usually always

565

00:22:09,640 --> 00:22:14,110

that they say you're kind of thing and

566

00:22:11,380 --> 00:22:15,970

boy if you were at the drinking

567

00:22:14,109 --> 00:22:17,319

skeptically last night for its that you

568

00:22:15,970 --> 00:22:19,750

will definitely understand it that is

569

00:22:17,319 --> 00:22:21,460

not the case that that's one thing but

570

00:22:19,750 --> 00:22:23,980

the other thing as you pointed out is

571
00:22:21,460 --> 00:22:26,350
that then people expect you to basically

572
00:22:23,980 --> 00:22:27,940
take a no position negative position on

573
00:22:26,349 --> 00:22:29,709
pretty much anything yeah that's of

574
00:22:27,940 --> 00:22:33,100
course not what skepticism eats this

575
00:22:29,710 --> 00:22:35,250
skepticism is about a reasoned analysis

576
00:22:33,099 --> 00:22:36,829
of a situation and in about

577
00:22:35,250 --> 00:22:38,869
proportioning your belief

578
00:22:36,829 --> 00:22:40,460
to the evidence so if the evidence is

579
00:22:38,869 --> 00:22:41,808
overwhelming of course you're going to

580
00:22:40,460 --> 00:22:43,308
accept a certain notion at least

581
00:22:41,808 --> 00:22:45,288
provisionally I mean I'm perfectly

582
00:22:43,308 --> 00:22:46,398
convinced that it is the earth that goes

583
00:22:45,288 --> 00:22:48,079
around the Sun and not the other way

584
00:22:46,398 --> 00:22:50,658
around I thinking I'm not a skeptic in

585
00:22:48,079 --> 00:22:53,269
that sense i think that the evidence is

586
00:22:50,659 --> 00:22:55,490
overwhelming yes yes that's right and we

587
00:22:53,269 --> 00:22:57,740
are speaking of the things in space

588
00:22:55,490 --> 00:23:00,528
another not so much anymore

589
00:22:57,740 --> 00:23:03,589
interestingly enough but over the last

590
00:23:00,528 --> 00:23:05,869
few years people would expect us to be a

591
00:23:03,589 --> 00:23:09,528
moon landing skip oh yes of course right

592
00:23:05,869 --> 00:23:11,959
right and 911 skeptics yes the 911 to

593
00:23:09,528 --> 00:23:15,079
through the movements yeah yeah and

594
00:23:11,960 --> 00:23:17,090
again it's the idea is not that you're

595
00:23:15,079 --> 00:23:18,710
supposed to deny anything because you're

596
00:23:17,089 --> 00:23:21,079
a skeptic unfed Michael Sherman today

597
00:23:18,710 --> 00:23:23,360
made that point very well in in stock he

598
00:23:21,079 --> 00:23:25,908
said that for all effective purposes you

599

00:23:23,359 --> 00:23:27,859
can make one of two opposite mistakes

600
00:23:25,909 --> 00:23:29,690
right you can you can be too skeptical

601
00:23:27,859 --> 00:23:31,189
and therefore miss out on things that

602
00:23:29,690 --> 00:23:32,960
actually true and you're rejecting the

603
00:23:31,190 --> 00:23:35,899
truth this is what in statistical

604
00:23:32,960 --> 00:23:37,250
analysis called a type 2 error and or

605
00:23:35,898 --> 00:23:39,709
you can do the other way around and

606
00:23:37,250 --> 00:23:42,048
accept pretty much everything including

607
00:23:39,710 --> 00:23:43,519
things that notions are clearly not not

608
00:23:42,048 --> 00:23:44,839
the case that clearly not true in which

609
00:23:43,519 --> 00:23:48,319
case you would be making what's the

610
00:23:44,839 --> 00:23:49,849
decisions call a type one error and his

611
00:23:48,319 --> 00:23:52,129
point was that well it is actually very

612
00:23:49,849 --> 00:23:53,778
difficult to balance between these two

613
00:23:52,130 --> 00:23:55,278

there is always a risk no matter what

614

00:23:53,778 --> 00:23:56,569

position you take there is always a risk

615

00:23:55,278 --> 00:23:58,490

that you're rejecting something that is

616

00:23:56,569 --> 00:24:01,158

true or the EurAsEC accepting something

617

00:23:58,490 --> 00:24:05,120

is bunk to me being a critical thinker

618

00:24:01,159 --> 00:24:07,159

means that you try to minimize both both

619

00:24:05,119 --> 00:24:09,288

types of errors and it's interesting you

620

00:24:07,159 --> 00:24:10,880

know I my previous career before

621

00:24:09,288 --> 00:24:12,288

becoming a philosopher I was I was a

622

00:24:10,880 --> 00:24:15,080

biologist and I was trained action in

623

00:24:12,288 --> 00:24:19,099

statistical analysis and you're told

624

00:24:15,079 --> 00:24:21,740

your thought in statistics 101 that if

625

00:24:19,099 --> 00:24:23,058

you want to minimize both that the

626

00:24:21,740 --> 00:24:25,548

typical there is an inverse relationship

627

00:24:23,058 --> 00:24:27,950

between type 1 and type 2 error if you

628
00:24:25,548 --> 00:24:29,778
are more conservative because you don't

629
00:24:27,950 --> 00:24:32,149
want to believe in things that are not

630
00:24:29,778 --> 00:24:34,190
true you're bound also to these believe

631
00:24:32,148 --> 00:24:35,689
things that are in fact true and vice

632
00:24:34,190 --> 00:24:37,250
versa if you're not conservative enough

633
00:24:35,690 --> 00:24:38,778
because you don't want to miss out on

634
00:24:37,250 --> 00:24:41,450
things that are true you're bound to

635
00:24:38,778 --> 00:24:43,250
accept some bunk or some nonsense and so

636
00:24:41,450 --> 00:24:44,990
when I asked my you know teachers as

637
00:24:43,250 --> 00:24:47,538
well so how do you minimize both type 1

638
00:24:44,990 --> 00:24:49,909
and type 2 errors the answer was you get

639
00:24:47,538 --> 00:24:50,730
more data you get more information it's

640
00:24:49,909 --> 00:24:52,530
all about

641
00:24:50,730 --> 00:24:55,529
getting more reliable that are getting

642
00:24:52,529 --> 00:24:57,058
more information and that way eventually

643
00:24:55,529 --> 00:24:58,918
your you're going to be able to clearly

644
00:24:57,058 --> 00:25:02,220
make a distinction between two notions

645
00:24:58,919 --> 00:25:03,480
in the book I try to get that across by

646
00:25:02,220 --> 00:25:05,730
explaining that the difference between

647
00:25:03,480 --> 00:25:08,429
science and pseudoscience is not a sharp

648
00:25:05,730 --> 00:25:10,140
bandar there is there's not a very clear

649
00:25:08,429 --> 00:25:11,400
demarcation line in philosophy of

650
00:25:10,140 --> 00:25:13,380
science this used to be called the

651
00:25:11,400 --> 00:25:14,910
demarcation problem how do you tell

652
00:25:13,380 --> 00:25:16,320
science from to pseudoscience and some

653
00:25:14,910 --> 00:25:17,790
early philosophers early 20th century

654
00:25:16,319 --> 00:25:19,950
philosophers of science particularly

655
00:25:17,789 --> 00:25:22,529
called popper thought that there was a

656

00:25:19,950 --> 00:25:24,690
very clear answer that if a notion is

657
00:25:22,529 --> 00:25:26,190
potentially falsifiable it is scientific

658
00:25:24,690 --> 00:25:27,720
if it is not even potentially

659
00:25:26,190 --> 00:25:30,058
falsifiable if there's no way in theory

660
00:25:27,720 --> 00:25:32,220
in principle to tell that it's that it's

661
00:25:30,058 --> 00:25:34,410
wrong than in pseudoscience well that

662
00:25:32,220 --> 00:25:35,880
was a good beginning but as it turns out

663
00:25:34,410 --> 00:25:38,160
things are much more complicated than

664
00:25:35,880 --> 00:25:41,970
that anyone in the book I try to do is I

665
00:25:38,160 --> 00:25:44,580
try to map these complex space that goes

666
00:25:41,970 --> 00:25:46,769
from clearly solid science you know

667
00:25:44,579 --> 00:25:48,329
fundamental physics evolutionary biology

668
00:25:46,769 --> 00:25:50,819
and chemistry all this all these things

669
00:25:48,329 --> 00:25:53,189
to at the opposite extreme clearly

670
00:25:50,819 --> 00:25:54,928

pseudo scientific notions astrology you

671

00:25:53,190 --> 00:25:56,700

know like with ian you know clairvoyance

672

00:25:54,929 --> 00:25:59,070

and all that source and then there's a

673

00:25:56,700 --> 00:26:00,660

lot of stuff in between which tomatoes

674

00:25:59,069 --> 00:26:02,490

them was interesting one those are

675

00:26:00,660 --> 00:26:03,690

things like so-called soft sciences for

676

00:26:02,490 --> 00:26:06,359

instance you know psychology sociology

677

00:26:03,690 --> 00:26:11,370

but that's those are clearly sciences

678

00:26:06,359 --> 00:26:13,558

yes but they do get to producing output

679

00:26:11,369 --> 00:26:15,659

in terms of research that is much more

680

00:26:13,558 --> 00:26:17,759

debatable it's you know the experiments

681

00:26:15,660 --> 00:26:19,080

are replicated but but it's not clear

682

00:26:17,759 --> 00:26:20,279

what the replication actually means and

683

00:26:19,079 --> 00:26:23,879

so on so there's much more discussion

684

00:26:20,279 --> 00:26:25,079

and then there are notions such as for

685
00:26:23,880 --> 00:26:26,790
instance in a search for us at the

686
00:26:25,079 --> 00:26:28,740
restaurant intelligence is that science

687
00:26:26,789 --> 00:26:30,240
or is that not science well it's done by

688
00:26:28,740 --> 00:26:32,130
scientists it's but it's done by

689
00:26:30,240 --> 00:26:33,960
astronomers tip it typically it is

690
00:26:32,130 --> 00:26:35,490
certainly based on sound scientific

691
00:26:33,960 --> 00:26:37,980
principles I mean we're using radio

692
00:26:35,490 --> 00:26:39,690
telescopes to do that and and it's based

693
00:26:37,980 --> 00:26:41,480
on a reasonable assumption that given

694
00:26:39,690 --> 00:26:43,890
you we know that there is one civilized

695
00:26:41,480 --> 00:26:46,860
technological so-called civilized

696
00:26:43,890 --> 00:26:48,450
somewhat civilized technological society

697
00:26:46,859 --> 00:26:50,789
out there then they might be more than

698
00:26:48,450 --> 00:26:53,069
mine right on the other hand it's also

699
00:26:50,789 --> 00:26:56,039
true that the notion that there are

700
00:26:53,069 --> 00:26:57,808
other civilizations are there may not be

701
00:26:56,039 --> 00:26:59,879
falsifiable because it doesn't matter

702
00:26:57,808 --> 00:27:01,859
how much time you spent listening and

703
00:26:59,880 --> 00:27:02,720
not getting any response you can never

704
00:27:01,859 --> 00:27:04,729
conclude

705
00:27:02,720 --> 00:27:06,860
that your hypothesis was wrong so

706
00:27:04,730 --> 00:27:09,860
technically sadie is based on a non

707
00:27:06,859 --> 00:27:12,048
falsifiable exception right and yet it

708
00:27:09,859 --> 00:27:14,119
is it is worth doing it is because it's

709
00:27:12,048 --> 00:27:15,379
because unless you know as long as

710
00:27:14,119 --> 00:27:17,449
you're not paying too much money and

711
00:27:15,380 --> 00:27:19,640
spending too much energy on that kind of

712
00:27:17,450 --> 00:27:22,308
effort the payoff the potential payout

713

00:27:19,640 --> 00:27:24,110
potential is huge yes absolutely and

714
00:27:22,308 --> 00:27:27,558
it's interesting you should be talking

715
00:27:24,109 --> 00:27:29,240
about the way with space again and the

716
00:27:27,558 --> 00:27:32,509
way science is communicated you speak

717
00:27:29,240 --> 00:27:34,220
about Stephen Jay Gould and Carl Sagan

718
00:27:32,509 --> 00:27:36,980
right one of the chapters of your book

719
00:27:34,220 --> 00:27:38,960
who both of them especially in in my

720
00:27:36,980 --> 00:27:41,480
case Carl Sagan was the great science

721
00:27:38,960 --> 00:27:44,538
communicator and you talk about the

722
00:27:41,480 --> 00:27:46,429
media what what in your opinion what

723
00:27:44,538 --> 00:27:49,940
could the media do better I mean it's

724
00:27:46,429 --> 00:27:52,250
not easy to to represent our way of

725
00:27:49,940 --> 00:27:54,140
thinking to the general public no it is

726
00:27:52,250 --> 00:27:57,048
really isn't no it isn't and and I know

727
00:27:54,140 --> 00:27:59,210

you know have friends or journalists who

728

00:27:57,048 --> 00:28:00,918
are very sensitive to this matter

729

00:27:59,210 --> 00:28:04,519
because you know journalists by and

730

00:28:00,919 --> 00:28:06,140
large really want to do a good job at

731

00:28:04,519 --> 00:28:08,500
educating the public they want to do a

732

00:28:06,140 --> 00:28:12,200
good job of communicating complex issues

733

00:28:08,500 --> 00:28:14,089
but of course they run against a number

734

00:28:12,200 --> 00:28:16,340
of serious problems first of all they

735

00:28:14,089 --> 00:28:17,720
typically are not trained in the

736

00:28:16,339 --> 00:28:19,428
specific discipline I mean their general

737

00:28:17,720 --> 00:28:20,509
sort of general thinkers right you're

738

00:28:19,429 --> 00:28:21,769
not they're not scientists they're not

739

00:28:20,509 --> 00:28:23,450
they don't have training there are some

740

00:28:21,769 --> 00:28:26,119
science journalists to do have specific

741

00:28:23,450 --> 00:28:28,519
training in science but by and large a

742
00:28:26,119 --> 00:28:30,259
journalist is somebody who just happens

743
00:28:28,519 --> 00:28:32,629
to be good at asking questions in

744
00:28:30,259 --> 00:28:33,859
writing about certain things and in our

745
00:28:32,630 --> 00:28:35,539
typical journal nation i have a friend

746
00:28:33,859 --> 00:28:38,089
of mine for instance who started her

747
00:28:35,538 --> 00:28:40,700
career as a political journalist and

748
00:28:38,089 --> 00:28:42,649
then now writes about education well

749
00:28:40,700 --> 00:28:44,990
it's not that she has any particular

750
00:28:42,650 --> 00:28:47,120
degree or background in either politics

751
00:28:44,990 --> 00:28:48,909
or education she just is a intelligent

752
00:28:47,119 --> 00:28:50,750
person who is capable of listening in

753
00:28:48,909 --> 00:28:52,669
researching certain questions and

754
00:28:50,750 --> 00:28:54,909
running about it that's the kind of

755
00:28:52,669 --> 00:28:58,788
person we need to communicate to as

756
00:28:54,909 --> 00:29:01,280
scientists or as skeptics the others the

757
00:28:58,788 --> 00:29:03,679
other side of the problem with

758
00:29:01,279 --> 00:29:06,230
journalists of course is that they have

759
00:29:03,679 --> 00:29:08,210
to do deal with their own internal

760
00:29:06,230 --> 00:29:10,308
pressures in their own business very

761
00:29:08,210 --> 00:29:12,860
good play it's I mean they have most

762
00:29:10,308 --> 00:29:15,109
most media outlets that are corporate

763
00:29:12,859 --> 00:29:17,148
owned owned they have sell their product

764
00:29:15,109 --> 00:29:19,250
to sell their products especially these

765
00:29:17,148 --> 00:29:21,949
days were with the demise of magazines

766
00:29:19,250 --> 00:29:23,839
and newspapers yes there is the rise of

767
00:29:21,950 --> 00:29:25,909
the internet for sure but on the other

768
00:29:23,839 --> 00:29:28,099
hand the internet is still too large to

769
00:29:25,909 --> 00:29:30,320
a large extent a wild place I mean you

770

00:29:28,099 --> 00:29:31,639
know you can go to my blog and with what

771
00:29:30,319 --> 00:29:33,288
I think it's really interesting stuff

772
00:29:31,640 --> 00:29:35,419
but on the other hand if you pick a blog

773
00:29:33,288 --> 00:29:37,519
at random if you pick a random web page

774
00:29:35,419 --> 00:29:38,990
out of a google search but there is

775
00:29:37,519 --> 00:29:40,519
absolutely no guarantee that you're

776
00:29:38,990 --> 00:29:42,679
getting anything that is reliable people

777
00:29:40,519 --> 00:29:45,619
can make stuff up and put it out there

778
00:29:42,679 --> 00:29:47,059
so how do you tell you know what is

779
00:29:45,619 --> 00:29:50,269
reliable what is from what is not well

780
00:29:47,058 --> 00:29:52,668
it turns out that the best way to do

781
00:29:50,269 --> 00:29:55,038
that is to go to new sources on the

782
00:29:52,669 --> 00:29:56,929
internet which are actually sponsored by

783
00:29:55,038 --> 00:29:59,450
standard classical well-established

784
00:29:56,929 --> 00:30:01,269

outlets like you know if I get my news I

785

00:29:59,450 --> 00:30:03,470

get them from the New York Times the BBC

786

00:30:01,269 --> 00:30:05,690

national public radio in the united

787

00:30:03,470 --> 00:30:07,779

states the kind of sources that I know

788

00:30:05,690 --> 00:30:10,220

they're not infallible because nobody is

789

00:30:07,779 --> 00:30:12,019

but they have a certain degree of

790

00:30:10,220 --> 00:30:13,490

reliability they you know they have a

791

00:30:12,019 --> 00:30:15,288

certain kind of audience insert the kind

792

00:30:13,490 --> 00:30:16,759

of standards I don't just read randomly

793

00:30:15,288 --> 00:30:19,640

because there's too much stuff out there

794

00:30:16,759 --> 00:30:20,929

so as skeptics when we talk to the two

795

00:30:19,640 --> 00:30:22,669

journalists we have to keep in mind

796

00:30:20,929 --> 00:30:24,710

first of all that these are people were

797

00:30:22,669 --> 00:30:26,809

not specifically trained in science or

798

00:30:24,710 --> 00:30:30,319

critical thinking and second that they

799

00:30:26,808 --> 00:30:32,178

have a set of pressures there it's not

800

00:30:30,319 --> 00:30:35,210

the only have one agenda their agenda is

801

00:30:32,179 --> 00:30:38,929

not just to educate the public is also

802

00:30:35,210 --> 00:30:41,000

to sell their product now that may be

803

00:30:38,929 --> 00:30:42,440

something we don't like as a general

804

00:30:41,000 --> 00:30:44,659

idea i mean i would like for information

805

00:30:42,440 --> 00:30:46,850

to be free available to everybody

806

00:30:44,659 --> 00:30:48,710

researched and well-researched right but

807

00:30:46,849 --> 00:30:50,209

unfortunately with you know the fact

808

00:30:48,710 --> 00:30:52,759

that the matter is that if you want to

809

00:30:50,210 --> 00:30:54,529

do well informed research well you have

810

00:30:52,759 --> 00:30:56,148

to spend time and and somebody has to

811

00:30:54,529 --> 00:30:58,639

pay for it that's right that's right and

812

00:30:56,148 --> 00:31:01,279

so you we need to come to terms to do

813
00:30:58,640 --> 00:31:03,679
with the idea that yes we need to sell

814
00:31:01,279 --> 00:31:05,538
our message to journalist to the media

815
00:31:03,679 --> 00:31:06,980
we need to find out way and i don't i

816
00:31:05,538 --> 00:31:10,129
don't mean it doesn't mean necessarily

817
00:31:06,980 --> 00:31:12,110
that you have to become incredibly

818
00:31:10,130 --> 00:31:14,179
simplistic or go for the sensation and

819
00:31:12,109 --> 00:31:15,859
situational thing only and that sort of

820
00:31:14,179 --> 00:31:17,059
thing but you know you need to be

821
00:31:15,859 --> 00:31:19,459
creative you need to talk to these

822
00:31:17,058 --> 00:31:21,470
people having the journalists having in

823
00:31:19,460 --> 00:31:23,569
mind what it is from their perspective

824
00:31:21,470 --> 00:31:24,630
that is going to make it in print or

825
00:31:23,569 --> 00:31:26,939
it's going to make it to their

826
00:31:24,630 --> 00:31:30,270
it's also a lot easier for the

827

00:31:26,940 --> 00:31:32,580
journalists to present the story it was

828
00:31:30,269 --> 00:31:36,900
a UFO that people think they saw flying

829
00:31:32,579 --> 00:31:38,609
through the sky or these people from the

830
00:31:36,900 --> 00:31:40,710
city saw a ghost or whatever it was

831
00:31:38,609 --> 00:31:44,129
which happens a lot in Australia the

832
00:31:40,710 --> 00:31:48,000
tabloid TV show and press then go into

833
00:31:44,130 --> 00:31:50,070
an explanation of the possible what else

834
00:31:48,000 --> 00:31:52,109
it could be and a lot of the times their

835
00:31:50,069 --> 00:31:55,439
readership or the people viewing just

836
00:31:52,109 --> 00:31:57,809
wanted to be reassured that yes psychics

837
00:31:55,440 --> 00:31:59,400
can tell you a future or the UFO is

838
00:31:57,809 --> 00:32:02,669
coming or something like that there's an

839
00:31:59,400 --> 00:32:04,890
enormous emotional potential data that

840
00:32:02,670 --> 00:32:08,130
unfortunately skeptics have a hard time

841
00:32:04,890 --> 00:32:09,900

tapping in because you know frankly most

842

00:32:08,130 --> 00:32:11,940

of what we do is about bursting bubbles

843

00:32:09,900 --> 00:32:13,980

it's not an people don't like to have

844

00:32:11,940 --> 00:32:15,720

the other words nobody I'm skeptics not

845

00:32:13,980 --> 00:32:18,029

even skeptics that's exactly right now

846

00:32:15,720 --> 00:32:20,819

you mentioned Cal taken and the reason I

847

00:32:18,029 --> 00:32:22,589

talk about Sagan out in my book other

848

00:32:20,819 --> 00:32:26,250

than because he was a huge influence on

849

00:32:22,589 --> 00:32:29,009

me when I when I was a younger it's

850

00:32:26,250 --> 00:32:32,339

because he got it exactly right in terms

851

00:32:29,009 --> 00:32:34,019

of realizing that being a skeptic being

852

00:32:32,339 --> 00:32:36,659

a scientist being you know a critical

853

00:32:34,019 --> 00:32:38,730

thinker it's never going to be a popular

854

00:32:36,660 --> 00:32:40,980

position it's always going to be new is

855

00:32:38,730 --> 00:32:42,870

the subtitle of these famous book the

856
00:32:40,980 --> 00:32:45,180
demon haunted world is science as a

857
00:32:42,869 --> 00:32:47,039
candle in the dark and I like that image

858
00:32:45,180 --> 00:32:49,710
science and i would say in fact more

859
00:32:47,039 --> 00:32:51,809
broadly reason right critical thinking

860
00:32:49,710 --> 00:32:54,180
is a candle in the dark and what

861
00:32:51,809 --> 00:32:56,069
skeptics are about is to keep that

862
00:32:54,180 --> 00:32:57,779
candle lit as much as possible and to

863
00:32:56,069 --> 00:32:59,879
spread it as much as possible but you

864
00:32:57,779 --> 00:33:00,960
have we have to come to terms that we're

865
00:32:59,880 --> 00:33:02,880
always going to be surrounded by the

866
00:33:00,960 --> 00:33:05,279
dark because the dark is easier yeah

867
00:33:02,880 --> 00:33:10,220
that's it the doc is easier yeah it's

868
00:33:05,279 --> 00:33:12,539
easier to be to simply believe the

869
00:33:10,220 --> 00:33:14,970
psychic reading when it happens to you

870
00:33:12,539 --> 00:33:16,500
than to study the psychology of what we

871
00:33:14,970 --> 00:33:18,750
know is cold reading and all the other

872
00:33:16,500 --> 00:33:20,309
aspects but we heard this morning for

873
00:33:18,750 --> 00:33:22,170
instance and a great example you know it

874
00:33:20,309 --> 00:33:24,000
what the problem is that being a skeptic

875
00:33:22,170 --> 00:33:26,340
can be depressing because you do a lot

876
00:33:24,000 --> 00:33:28,710
of work you try to convince people

877
00:33:26,339 --> 00:33:30,269
you're reason you provide data and then

878
00:33:28,710 --> 00:33:31,500
a lot of people look at you and say no I

879
00:33:30,269 --> 00:33:33,539
don't know i don't know it's really

880
00:33:31,500 --> 00:33:35,640
believe in ghosts so that can be

881
00:33:33,539 --> 00:33:37,308
depressing but there are good results

882
00:33:35,640 --> 00:33:39,950
that we do achieve one of the

883
00:33:37,308 --> 00:33:42,668
that I that I stress in the book is that

884

00:33:39,950 --> 00:33:46,490
bad science through science you know

885
00:33:42,669 --> 00:33:48,679
bunk literally can kill people if you if

886
00:33:46,490 --> 00:33:50,628
you don't believe that there is a

887
00:33:48,679 --> 00:33:53,320
connection between HIV and AIDS and

888
00:33:50,628 --> 00:33:57,408
therefore refuse to take you know anti

889
00:33:53,319 --> 00:33:58,548
retroviral drugs you can die you know if

890
00:33:57,409 --> 00:34:00,590
you're not going to vaccinate your

891
00:33:58,548 --> 00:34:02,359
children it's a big issue in Australia

892
00:34:00,589 --> 00:34:03,709
exactly because because you think that

893
00:34:02,359 --> 00:34:05,028
there is a connection with autism even

894
00:34:03,710 --> 00:34:07,009
though plenty of scientific research has

895
00:34:05,028 --> 00:34:08,568
shown there is no connection then you're

896
00:34:07,009 --> 00:34:09,889
only you're endangering your children

897
00:34:08,568 --> 00:34:12,440
but in fact you're endangering society

898
00:34:09,889 --> 00:34:14,030

at large because vaccines work only if a

899

00:34:12,440 --> 00:34:15,409

large number of people actually are bugs

900

00:34:14,030 --> 00:34:17,329

in it yeah and Storen sports so these

901

00:34:15,409 --> 00:34:19,220

things are important it's not just a

902

00:34:17,329 --> 00:34:20,839

matter of bursting people's bubbles is a

903

00:34:19,219 --> 00:34:24,078

matter of literally protecting the

904

00:34:20,838 --> 00:34:26,690

public I think of skepticism as a is a

905

00:34:24,079 --> 00:34:28,490

sort of a consumers advocate that's a

906

00:34:26,690 --> 00:34:31,579

version that's a very good Linus line we

907

00:34:28,489 --> 00:34:34,299

try to take in Australia and you're

908

00:34:31,579 --> 00:34:36,679

absolutely right because we always think

909

00:34:34,300 --> 00:34:40,159

we all see there are two sides to what

910

00:34:36,679 --> 00:34:42,710

we do for our own sanity we have we try

911

00:34:40,159 --> 00:34:44,659

to have fun right and to me you know UFO

912

00:34:42,710 --> 00:34:46,460

hunting and ghosts all right it's it's

913
00:34:44,659 --> 00:34:47,809
old hat to us but to a lot of the

914
00:34:46,460 --> 00:34:49,760
younger generation they get very

915
00:34:47,809 --> 00:34:52,429
interested in and I enjoy all that stuff

916
00:34:49,760 --> 00:34:54,560
some of it so that's where we get a our

917
00:34:52,429 --> 00:34:56,179
interest in and fun and then yes we have

918
00:34:54,559 --> 00:34:58,460
very serious about fighting the

919
00:34:56,179 --> 00:35:00,619
anti-vaccination lobby and all these

920
00:34:58,460 --> 00:35:03,170
people in occasion we succeed it as I

921
00:35:00,619 --> 00:35:05,240
was saying earlier we heard this morning

922
00:35:03,170 --> 00:35:06,920
at the meeting and a good example of it

923
00:35:05,239 --> 00:35:09,169
where the James Randi foundation was

924
00:35:06,920 --> 00:35:11,030
instrumental in going to talk to the

925
00:35:09,170 --> 00:35:13,159
Department of Defense i believe it was

926
00:35:11,030 --> 00:35:14,630
in the united states and showing them

927
00:35:13,159 --> 00:35:16,460
that this thing that they were paying

928
00:35:14,630 --> 00:35:17,890
tens of thousands of dollars for with

929
00:35:16,460 --> 00:35:20,929
this instrument that was supposed to

930
00:35:17,889 --> 00:35:22,909
cover the bomb the salton thing in iraq

931
00:35:20,929 --> 00:35:24,949
was actually a complete bank was based

932
00:35:22,909 --> 00:35:27,469
on no signs at all it was just but you

933
00:35:24,949 --> 00:35:31,009
know in tally non-functional thing got

934
00:35:27,469 --> 00:35:32,779
put together to as a scam and it turns

935
00:35:31,010 --> 00:35:34,310
out that they were successful you know

936
00:35:32,780 --> 00:35:36,920
the prime minister of defense did did

937
00:35:34,309 --> 00:35:38,349
listen and they stopped not only they

938
00:35:36,920 --> 00:35:40,250
stopped sales but in fact the the

939
00:35:38,349 --> 00:35:42,140
president of the company was selling

940
00:35:40,250 --> 00:35:44,150
these things is now in jail now that's a

941

00:35:42,139 --> 00:35:46,429
victory it's a small victory but it is

942
00:35:44,150 --> 00:35:49,369
the kind of things that make make it

943
00:35:46,429 --> 00:35:50,719
worth it it makes will save life it's

944
00:35:49,369 --> 00:35:52,010
safe sighs really

945
00:35:50,719 --> 00:35:53,329
exactly it saves lives it makes a

946
00:35:52,010 --> 00:35:55,700
difference in people in people's lives

947
00:35:53,329 --> 00:35:57,108
and and it makes you think like okay

948
00:35:55,699 --> 00:35:59,358
well I've been spending a lot of time

949
00:35:57,108 --> 00:36:00,650
writing and talking and putting today

950
00:35:59,358 --> 00:36:02,239
are these things and it's actually

951
00:36:00,650 --> 00:36:04,490
making a difference you you do get that

952
00:36:02,239 --> 00:36:07,309
feedback from time to time and I'm very

953
00:36:04,489 --> 00:36:09,889
pleased to say that we in Australia

954
00:36:07,309 --> 00:36:12,460
every now and then the hard work we put

955
00:36:09,889 --> 00:36:15,739

in will get the feedback or the results

956

00:36:12,460 --> 00:36:17,329

and that's just recharges the batteries

957

00:36:15,739 --> 00:36:19,549

and makes you think yeah but all those

958

00:36:17,329 --> 00:36:21,049

hours you spend exactly and you also

959

00:36:19,550 --> 00:36:23,810

have to remember that you know probably

960

00:36:21,050 --> 00:36:25,099

for any any particular example feed but

961

00:36:23,809 --> 00:36:27,320

you get there's probably another 10 or

962

00:36:25,099 --> 00:36:29,359

100 out there where you did make a

963

00:36:27,320 --> 00:36:31,280

difference and you know by the right all

964

00:36:29,358 --> 00:36:32,358

right I mean in some sense it is just

965

00:36:31,280 --> 00:36:34,310

like being a teacher you know I've been

966

00:36:32,358 --> 00:36:36,739

I've been an academic for all my life

967

00:36:34,309 --> 00:36:38,539

and it is a very rewarding experience in

968

00:36:36,739 --> 00:36:40,309

the moment you're teaching people but it

969

00:36:38,539 --> 00:36:41,719

is even more rewarding when you know ten

970
00:36:40,309 --> 00:36:43,309
years later you get an email from one of

971
00:36:41,719 --> 00:36:44,868
your former students yeah you know what

972
00:36:43,309 --> 00:36:46,190
yeah i like to one of your classes and

973
00:36:44,869 --> 00:36:48,019
really made a difference in time but

974
00:36:46,190 --> 00:36:49,340
then I start thinking okay well I get

975
00:36:48,019 --> 00:36:51,500
those only once in a while and then I

976
00:36:49,340 --> 00:36:53,900
realized yes but on the other hand it's

977
00:36:51,500 --> 00:36:56,059
probably many many more who don't bother

978
00:36:53,900 --> 00:36:57,440
to ride don't you know but they can't

979
00:36:56,059 --> 00:37:00,230
find my email address or whatever it is

980
00:36:57,440 --> 00:37:02,510
and yet I having fat help I having fat

981
00:37:00,230 --> 00:37:03,829
touch them you know I myself have plenty

982
00:37:02,510 --> 00:37:05,180
of t-shirt I've had plenty of teachers

983
00:37:03,829 --> 00:37:07,489
who I didn't bother you know running

984
00:37:05,179 --> 00:37:09,799
back packets later and say hey thank you

985
00:37:07,489 --> 00:37:12,679
that's a really good point I mean I did

986
00:37:09,800 --> 00:37:14,330
over the years I've often related the

987
00:37:12,679 --> 00:37:16,279
story of a science teacher I had who was

988
00:37:14,329 --> 00:37:18,338
particularly good at communicating and I

989
00:37:16,280 --> 00:37:20,599
never bothered to write back and say

990
00:37:18,338 --> 00:37:22,369
thank you very much there you are

991
00:37:20,599 --> 00:37:24,470
listeners as there's your task for the

992
00:37:22,369 --> 00:37:26,000
day let your teachers know who inspired

993
00:37:24,469 --> 00:37:28,009
you that they did a good job they will

994
00:37:26,000 --> 00:37:30,530
appreciate absolutely and it's a very

995
00:37:28,010 --> 00:37:33,530
good tip now the book is called nonsense

996
00:37:30,530 --> 00:37:35,630
on stilts how to tell science from bunk

997
00:37:33,530 --> 00:37:42,380
it's produced by the University of

998

00:37:35,630 --> 00:37:44,329
Chicago Press ww-p RSU chicago edu and i

999
00:37:42,380 --> 00:37:46,190
think people can buy that hopefully in

1000
00:37:44,329 --> 00:37:47,539
the book shops yes it's available in

1001
00:37:46,190 --> 00:37:48,409
bookshops and of course through amazon

1002
00:37:47,539 --> 00:37:50,690
and through

1003
00:37:48,409 --> 00:37:51,799
less no it was an absolute like to talk

1004
00:37:50,690 --> 00:37:53,900
to you thank you for sparing you

1005
00:37:51,800 --> 00:38:06,260
sometime today it was my pleasure thank

1006
00:37:53,900 --> 00:38:09,950
you very much this is brian dunning from

1007
00:38:06,260 --> 00:38:12,380
skep tide calm warning avoid skeptics in

1008
00:38:09,949 --> 00:38:15,349
the pub in sydney on october 7th at all

1009
00:38:12,380 --> 00:38:18,019
costs Maynard is going to be there the

1010
00:38:15,349 --> 00:38:19,940
avalanche of irrationality and ill logic

1011
00:38:18,019 --> 00:38:22,940
that he'll no doubt unleash will be

1012
00:38:19,940 --> 00:38:25,280

hazardous to anyone who attends October

1013

00:38:22,940 --> 00:38:27,139
seventh please be as far away from

1014

00:38:25,280 --> 00:38:29,990
skeptics in the pub in Sydney as

1015

00:38:27,139 --> 00:38:35,989
possible thank you i'm brian dunning

1016

00:38:29,989 --> 00:38:41,079
from sceptile calm join us now for

1017

00:38:35,989 --> 00:38:41,079
drinking skeptically in the think tank

1018

00:38:44,409 --> 00:38:48,739
and welcome to the think tank it's good

1019

00:38:47,420 --> 00:38:50,480
to be back here in our favorite club

1020

00:38:48,739 --> 00:38:56,629
down the street dr. rate she is holding

1021

00:38:50,480 --> 00:38:58,190
up her computer to me and maybe dr. AG

1022

00:38:56,630 --> 00:39:04,070
before we get started could you explain

1023

00:38:58,190 --> 00:39:05,690
what that's all about I'll tell you you

1024

00:39:04,070 --> 00:39:08,750
have to come to skeptics in the pub on

1025

00:39:05,690 --> 00:39:10,789
octob the 7th in Sydney our special

1026

00:39:08,750 --> 00:39:14,659
guests will be Maynard and he's doing

1027
00:39:10,789 --> 00:39:17,119
lux there's a heckler here I mean he's

1028
00:39:14,659 --> 00:39:20,509
gonna be sharing his world of woo and

1029
00:39:17,119 --> 00:39:24,219
woo with us can't wait for that well

1030
00:39:20,510 --> 00:39:24,220
it's a big welcome to you dr. Rachel

1031
00:39:24,250 --> 00:39:29,929
let's may not be music we're going whoo

1032
00:39:26,989 --> 00:39:31,669
whooh whooh whooh and welcome to Maynard

1033
00:39:29,929 --> 00:39:33,049
hello Maynard hello hello it's great to

1034
00:39:31,670 --> 00:39:36,170
be here and you've been around the world

1035
00:39:33,050 --> 00:39:38,600
and back again and our special guest Meg

1036
00:39:36,170 --> 00:39:40,039
hi Meg hi how are you and we're just

1037
00:39:38,599 --> 00:39:41,900
catching you before you're jetting off

1038
00:39:40,039 --> 00:39:44,320
to live in Germany that's correct i'm

1039
00:39:41,900 --> 00:39:47,450
moving to hamburg tomorrow morning so

1040
00:39:44,320 --> 00:39:50,120
really imagine you before and just to

1041
00:39:47,449 --> 00:39:52,460
mention that you're hoping to catch up

1042
00:39:50,119 --> 00:39:54,319
with the local skeptics in hamburg

1043
00:39:52,460 --> 00:39:56,449
that's right there's a Hamburg skeptics

1044
00:39:54,320 --> 00:39:59,210
club which meets on the 13th of every

1045
00:39:56,449 --> 00:40:01,429
month and so I'll be going to their next

1046
00:39:59,210 --> 00:40:03,110
meeting so hello to any Hamburg skeptics

1047
00:40:01,429 --> 00:40:05,869
who happened to be listening that's

1048
00:40:03,110 --> 00:40:08,809
fantastic and I was just looking at

1049
00:40:05,869 --> 00:40:10,369
their website I can find that again well

1050
00:40:08,809 --> 00:40:11,900
you look listeners in Germany or

1051
00:40:10,369 --> 00:40:14,150
anywhere around the world just don't

1052
00:40:11,900 --> 00:40:16,880
Google Hamburg skeptics and you'll

1053
00:40:14,150 --> 00:40:19,039
certainly find their website and that'd

1054
00:40:16,880 --> 00:40:22,640
be fantastic if you could meet with them

1055

00:40:19,039 --> 00:40:24,320
and share like-minded things with

1056
00:40:22,639 --> 00:40:26,509
like-minded people exactly this is what

1057
00:40:24,320 --> 00:40:28,309
we all love to do especially when we

1058
00:40:26,510 --> 00:40:31,490
have been jet-setting around the world

1059
00:40:28,309 --> 00:40:33,949
dr. AG we have haven't we oh yes where

1060
00:40:31,489 --> 00:40:37,009
have we been oh we've been to dragoncon

1061
00:40:33,949 --> 00:40:39,710
yeah i'm about to go again Richard what

1062
00:40:37,010 --> 00:40:42,200
I'm going back to the states in about

1063
00:40:39,710 --> 00:40:43,940
two weeks where are you going

1064
00:40:42,199 --> 00:40:46,639
well I'm going to salt lake city to find

1065
00:40:43,940 --> 00:40:48,440
myself a husband because if because I

1066
00:40:46,639 --> 00:40:52,069
heard that you know they've got a few

1067
00:40:48,440 --> 00:40:54,230
they share wives in Salt Lake Tony so I

1068
00:40:52,070 --> 00:40:56,059
see in magic underwear and magic

1069
00:40:54,230 --> 00:40:58,039

underwear well no actually I'm going to

1070

00:40:56,059 --> 00:41:00,320

Wyoming I'm going for a work conference

1071

00:40:58,039 --> 00:41:02,630

but I will be stopping in Salt Lake on

1072

00:41:00,320 --> 00:41:05,240

the way back and I'm going to be doing a

1073

00:41:02,630 --> 00:41:08,420

talk on the twenty-third of October on

1074

00:41:05,239 --> 00:41:10,219

Saturday and stop making salt lake city

1075

00:41:08,420 --> 00:41:12,320

in salt lake city I've Salt Lake City

1076

00:41:10,219 --> 00:41:15,319

skeptics are organizing that and we

1077

00:41:12,320 --> 00:41:17,210

don't have any more details yet but I'll

1078

00:41:15,320 --> 00:41:20,210

keep you posted so if anyone in the area

1079

00:41:17,210 --> 00:41:23,929

around Salt Lake City Saturday 23rd of

1080

00:41:20,210 --> 00:41:26,559

October fantastic yes we've had our

1081

00:41:23,929 --> 00:41:29,179

listeners of course know we've been

1082

00:41:26,559 --> 00:41:31,699

traveling around the United States we

1083

00:41:29,179 --> 00:41:34,250

went to visit brian dunning in the

1084
00:41:31,699 --> 00:41:38,059
orange county then we went over all the

1085
00:41:34,250 --> 00:41:40,400
way to dragoncon in Atlanta after that I

1086
00:41:38,059 --> 00:41:43,880
briefly visited our good friend dr. Phil

1087
00:41:40,400 --> 00:41:46,400
Plait astronomer holy haka like what

1088
00:41:43,880 --> 00:41:48,530
color that's right and now we're back in

1089
00:41:46,400 --> 00:41:52,670
Australia and I think you and I are sort

1090
00:41:48,530 --> 00:41:54,740
of over our jet lagging yeah yeah but

1091
00:41:52,670 --> 00:41:56,510
we've got another trip coming up on

1092
00:41:54,739 --> 00:41:59,719
Saturday Richard did you want to talk

1093
00:41:56,510 --> 00:42:01,220
about that now absolutely now I may not

1094
00:41:59,719 --> 00:42:03,169
if you fill us in about this wonderful

1095
00:42:01,219 --> 00:42:05,419
thing we're doing on the Saturday well

1096
00:42:03,170 --> 00:42:07,039
this is certainly up my alley so to

1097
00:42:05,420 --> 00:42:09,619
speak because as far as i know that has

1098
00:42:07,039 --> 00:42:11,960
not been a big atheistic atheistic

1099
00:42:09,619 --> 00:42:13,369
blowout in your castle and you guys are

1100
00:42:11,960 --> 00:42:15,050
going to be part of an atheistic blowout

1101
00:42:13,369 --> 00:42:16,880
now I know this may cause a schism

1102
00:42:15,050 --> 00:42:19,010
within the skeptics movement because

1103
00:42:16,880 --> 00:42:20,450
atheists and skeptics don't always go

1104
00:42:19,010 --> 00:42:22,790
together do they but this is the

1105
00:42:20,449 --> 00:42:24,710
skeptics event at it and put on by the

1106
00:42:22,789 --> 00:42:26,809
Atheist let's say we're there to promote

1107
00:42:24,710 --> 00:42:28,159
skeptic yeah you're there to give your

1108
00:42:26,809 --> 00:42:30,679
talks and the atheists are going to go

1109
00:42:28,159 --> 00:42:31,818
there and I think a few theists are

1110
00:42:30,679 --> 00:42:33,588
turning up and it could be a great night

1111
00:42:31,818 --> 00:42:35,690
I'm going to play a few tunes but I

1112

00:42:33,588 --> 00:42:38,150
don't know what music you play for

1113
00:42:35,690 --> 00:42:39,679
atheists and theists to bail it out to I

1114
00:42:38,150 --> 00:42:41,079
don't know I thought the Smiths will go

1115
00:42:39,679 --> 00:42:43,480
quite well so

1116
00:42:41,079 --> 00:42:45,340
good to me so listeners can certainly

1117
00:42:43,480 --> 00:42:46,869
find out about that since this show is

1118
00:42:45,340 --> 00:42:48,789
going to go out friday we're talking

1119
00:42:46,869 --> 00:42:50,589
saturday yeah there's enough time to get

1120
00:42:48,789 --> 00:42:52,900
also it's the bar on the hill at

1121
00:42:50,590 --> 00:42:55,630
newcastle university and i'm sure if you

1122
00:42:52,900 --> 00:42:57,430
follow any links on dr. HC site or on

1123
00:42:55,630 --> 00:42:58,720
your very own site you can find to get

1124
00:42:57,429 --> 00:42:59,980
there it's gonna be great night I'm sure

1125
00:42:58,719 --> 00:43:01,599
we'll have a lot of people and it'll be

1126
00:42:59,980 --> 00:43:03,699

a lot of fun and we don't have events

1127

00:43:01,599 --> 00:43:05,170

like this in Newcastle very often so

1128

00:43:03,699 --> 00:43:07,029

please come along and support it in fact

1129

00:43:05,170 --> 00:43:09,940

arrogance worth the drive from Sydney or

1130

00:43:07,030 --> 00:43:11,710

maybe even Melbourne or / or Burt look

1131

00:43:09,940 --> 00:43:13,389

gave up on the indian pacific and get

1132

00:43:11,710 --> 00:43:15,250

over here because you know may not if

1133

00:43:13,389 --> 00:43:18,129

they drive from perth they'll be driving

1134

00:43:15,250 --> 00:43:20,889

across the outback and they might they

1135

00:43:18,130 --> 00:43:22,750

just might encounter something in this

1136

00:43:20,889 --> 00:43:25,299

book that i've been reading i might see

1137

00:43:22,750 --> 00:43:27,880

something is out there something is out

1138

00:43:25,300 --> 00:43:29,710

there unlocking australia's paranormal

1139

00:43:27,880 --> 00:43:32,019

secrets by julie miller and grant

1140

00:43:29,710 --> 00:43:33,760

osborne now they're there believe travel

1141
00:43:32,019 --> 00:43:35,949
writers that will not believe as before

1142
00:43:33,760 --> 00:43:37,780
but after writing this book they're

1143
00:43:35,949 --> 00:43:39,129
believers in the paranormal secrets of

1144
00:43:37,780 --> 00:43:40,510
australia that's quite a thick book

1145
00:43:39,130 --> 00:43:41,500
isn't it it is quite thick book well

1146
00:43:40,510 --> 00:43:43,330
they've basically gone out and

1147
00:43:41,500 --> 00:43:45,579
interviewed people and they're very much

1148
00:43:43,329 --> 00:43:48,699
on the side of these things are real and

1149
00:43:45,579 --> 00:43:50,949
it is a good read i don't think a lot of

1150
00:43:48,699 --> 00:43:53,049
skeptics would enjoy that much I kind of

1151
00:43:50,949 --> 00:43:56,259
liked it but you know but it's not

1152
00:43:53,050 --> 00:43:58,420
particularly skeptical well let me let

1153
00:43:56,260 --> 00:44:01,240
me just quickly quickly flick Lee it's

1154
00:43:58,420 --> 00:44:04,269
clicking quickly I'll quickly turn to

1155
00:44:01,239 --> 00:44:07,000
this page here or is it another page

1156
00:44:04,269 --> 00:44:09,159
with a lovely photograph of a UFO I was

1157
00:44:07,000 --> 00:44:11,858
looking at before and what one of the

1158
00:44:09,159 --> 00:44:15,088
many UFOs photographs taken by

1159
00:44:11,858 --> 00:44:17,710
Ferguson blah blah it's a it's an insect

1160
00:44:15,088 --> 00:44:19,268
are you sure that's an insane yes I mean

1161
00:44:17,710 --> 00:44:21,519
with the Estonian skeptics are studying

1162
00:44:19,268 --> 00:44:23,318
things like that before it's simply an

1163
00:44:21,518 --> 00:44:25,268
insect which is flying across the screen

1164
00:44:23,318 --> 00:44:27,489
slightly out of focus because the focus

1165
00:44:25,268 --> 00:44:30,399
of the cameras on the sky well that's

1166
00:44:27,489 --> 00:44:33,039
ripped the gusset outta here we're here

1167
00:44:30,400 --> 00:44:34,720
to party food yeah yeah now this is this

1168
00:44:33,039 --> 00:44:36,309
is exactly what happened to me when I

1169

00:44:34,719 --> 00:44:38,048
went and saw the final version of loose

1170
00:44:36,309 --> 00:44:39,700
change the other night like that there

1171
00:44:38,048 --> 00:44:41,528
was that there was a better you than me

1172
00:44:39,699 --> 00:44:43,449
well look look I did want to go and see

1173
00:44:41,528 --> 00:44:45,039
it and you know um you know I'm

1174
00:44:43,449 --> 00:44:46,568
naturally very skeptical about the whole

1175
00:44:45,039 --> 00:44:47,859
thing they have taken some sensational

1176
00:44:46,568 --> 00:44:50,409
things out of it but I can see why

1177
00:44:47,858 --> 00:44:51,969
certain people male Americans would find

1178
00:44:50,409 --> 00:44:53,498
it quite offensive and look I went along

1179
00:44:51,969 --> 00:44:55,179
just with an open mind have a little bit

1180
00:44:53,498 --> 00:44:56,889
there and I mentioned some people that

1181
00:44:55,179 --> 00:44:59,469
you know I hang out with a skeptic

1182
00:44:56,889 --> 00:45:02,170
sometime and what they said was skeptics

1183
00:44:59,469 --> 00:45:05,288

they suck the fun out of life was the

1184

00:45:02,170 --> 00:45:06,700

exact thing I was told now and I I

1185

00:45:05,289 --> 00:45:08,140

disagree with them immediately there you

1186

00:45:06,699 --> 00:45:10,268

should come here and have a think tank

1187

00:45:08,139 --> 00:45:11,288

with it look why don't know I disagree

1188

00:45:10,268 --> 00:45:12,758

because I thought you know there's lots

1189

00:45:11,289 --> 00:45:15,278

of things in science that have fun I

1190

00:45:12,759 --> 00:45:18,309

mean I don't think that you know if you

1191

00:45:15,278 --> 00:45:19,809

have your particular whoo d but but that

1192

00:45:18,309 --> 00:45:22,480

takes a fun out of life you just find

1193

00:45:19,809 --> 00:45:24,609

some other fun don't you stuff is really

1194

00:45:22,480 --> 00:45:28,809

fun and that's science but it but it

1195

00:45:24,608 --> 00:45:30,730

adds to life I mean go merrily believing

1196

00:45:28,809 --> 00:45:32,499

a delusion I don't think that's very

1197

00:45:30,730 --> 00:45:34,298

much fun I might be fine i don't know

1198
00:45:32,498 --> 00:45:36,308
what do you think makes um i think the

1199
00:45:34,298 --> 00:45:38,018
fun is in finding out the answer yes

1200
00:45:36,309 --> 00:45:39,190
rather than believing the mystery find

1201
00:45:38,018 --> 00:45:41,318
out the answer and the reason for the

1202
00:45:39,190 --> 00:45:42,519
mystery and there's the fun well there

1203
00:45:41,318 --> 00:45:44,588
could be fun of that and and i think

1204
00:45:42,518 --> 00:45:46,449
that that's a bit of a problem the

1205
00:45:44,588 --> 00:45:47,498
skeptics movements worldwide have is

1206
00:45:46,449 --> 00:45:49,058
that there's this group of people who

1207
00:45:47,498 --> 00:45:50,399
think that you know you're a bunch of

1208
00:45:49,059 --> 00:45:53,160
party poopers

1209
00:45:50,400 --> 00:45:55,470
we just went to dragoncon with 55,000

1210
00:45:53,159 --> 00:45:57,058
other people and there was a huge amount

1211
00:45:55,469 --> 00:45:59,429
of fun and partying going on there

1212
00:45:57,059 --> 00:46:00,809
wasn't there Richard oh goodness me I

1213
00:45:59,429 --> 00:46:02,460
mean the way you described it made

1214
00:46:00,809 --> 00:46:04,950
ourselves like the Death Eaters from

1215
00:46:02,460 --> 00:46:07,108
Harry Potter you know we all float

1216
00:46:04,949 --> 00:46:09,778
around sucking the soul out of people

1217
00:46:07,108 --> 00:46:11,719
and I don't recall any of that happening

1218
00:46:09,778 --> 00:46:14,068
at DragonCon you know there was a

1219
00:46:11,719 --> 00:46:15,868
hundreds of people hundreds of skeptics

1220
00:46:14,068 --> 00:46:18,210
they're all having a fantastically fun

1221
00:46:15,869 --> 00:46:19,650
time I must say getting stuck and lift

1222
00:46:18,210 --> 00:46:21,990
suitable keys and all sorts of it yeah

1223
00:46:19,650 --> 00:46:23,789
and of course we took a trip out to the

1224
00:46:21,989 --> 00:46:26,009
doctor Georgia Guidestones but you have

1225
00:46:23,789 --> 00:46:28,859
talked about on the show that was great

1226

00:46:26,010 --> 00:46:30,599
fun um you know to go and check out

1227
00:46:28,858 --> 00:46:32,250
these sort of mysteries and these things

1228
00:46:30,599 --> 00:46:33,660
they're real road trip to see a real

1229
00:46:32,250 --> 00:46:35,039
little mystery Manor well this is the

1230
00:46:33,659 --> 00:46:36,690
thing I think that sometimes people

1231
00:46:35,039 --> 00:46:39,240
confuse skeptics with just pure

1232
00:46:36,690 --> 00:46:40,889
debunking and I think that's a problem

1233
00:46:39,239 --> 00:46:42,629
some time and I'm here to say that you

1234
00:46:40,889 --> 00:46:44,730
know they can be fun bunking has its

1235
00:46:42,630 --> 00:46:47,068
place but normally it's we don't take

1236
00:46:44,730 --> 00:46:48,510
that attitude but we go and investigate

1237
00:46:47,068 --> 00:46:50,219
and if it happens to be bunk what are we

1238
00:46:48,510 --> 00:46:51,839
going to do well a great bunk you know

1239
00:46:50,219 --> 00:46:53,459
and can i mention that something we

1240
00:46:51,838 --> 00:46:55,650

mentioned a few weeks ago on the on this

1241
00:46:53,460 --> 00:46:57,599
very drunk tank that we were having was

1242
00:46:55,650 --> 00:47:01,619
remember the everything as listeners it

1243
00:46:57,599 --> 00:47:04,068
here this is orange juice diet coke icee

1244
00:47:01,619 --> 00:47:05,910
says God querida I'm gonna cod cannot I

1245
00:47:04,068 --> 00:47:07,920
don't know about you but I've at a hell

1246
00:47:05,909 --> 00:47:09,868
of a week listeners but it's a few weeks

1247
00:47:07,920 --> 00:47:13,019
ago we mentioned here on this very drunk

1248
00:47:09,869 --> 00:47:14,309
tank of that if you drove fast enough in

1249
00:47:13,019 --> 00:47:16,798
certain areas of New South Wales you'd

1250
00:47:14,309 --> 00:47:18,660
see a ghost that you remember that that

1251
00:47:16,798 --> 00:47:20,278
you see him up on media watchman yes it

1252
00:47:18,659 --> 00:47:22,078
came up on media watch right here in

1253
00:47:20,278 --> 00:47:23,880
Australia and also the local police now

1254
00:47:22,079 --> 00:47:26,068
the ABC in Newcastle we didn't run this

1255
00:47:23,880 --> 00:47:27,480
story at all but the local commercial

1256
00:47:26,068 --> 00:47:29,639
radio stations went with it a bit there

1257
00:47:27,480 --> 00:47:31,260
and apparently quite a few speeding

1258
00:47:29,639 --> 00:47:33,719
drivers of in court in that area over

1259
00:47:31,260 --> 00:47:35,099
the past couple of weeks by the police

1260
00:47:33,719 --> 00:47:36,449
and well the police seem to think the

1261
00:47:35,099 --> 00:47:37,980
whole thing's died now and down now

1262
00:47:36,449 --> 00:47:39,088
because that areas become known as an

1263
00:47:37,980 --> 00:47:41,699
area where the police are looking for

1264
00:47:39,088 --> 00:47:43,108
you to speed good so I I think we've got

1265
00:47:41,699 --> 00:47:45,509
a happy result on that and no one has

1266
00:47:43,108 --> 00:47:47,278
been hurt but Media Watch which is the

1267
00:47:45,510 --> 00:47:48,339
media program here which exposes things

1268
00:47:47,278 --> 00:47:50,108
that happen in the media

1269
00:47:48,338 --> 00:47:51,670
well it basically showed that people

1270
00:47:50,108 --> 00:47:53,139
went with this without without any

1271
00:47:51,670 --> 00:47:54,608
skeptical approach and it just shows

1272
00:47:53,139 --> 00:47:56,108
that you know a skeptical approach is

1273
00:47:54,608 --> 00:47:57,578
pretty useful when it comes to something

1274
00:47:56,108 --> 00:48:00,009
like a ghost chasing you in the middle

1275
00:47:57,579 --> 00:48:02,440
of night in your car at 180 kilometers

1276
00:48:00,009 --> 00:48:05,469
an hour people have the ad visited the

1277
00:48:02,440 --> 00:48:07,719
impression that skeptics don't even like

1278
00:48:05,469 --> 00:48:09,400
to watch something like that fiction or

1279
00:48:07,719 --> 00:48:13,119
science fiction in the movies like Lord

1280
00:48:09,400 --> 00:48:14,528
of the Rings or Star Wars I mean they

1281
00:48:13,119 --> 00:48:16,778
just like to paint us like that I guess

1282
00:48:14,528 --> 00:48:18,699
yeah look I think it I think it's all of

1283

00:48:16,778 --> 00:48:21,849
this and also it's like um people get

1284
00:48:18,699 --> 00:48:23,078
atheists and anti-theists confused a lot

1285
00:48:21,849 --> 00:48:25,028
because people think that if you're Nate

1286
00:48:23,079 --> 00:48:26,528
these do part against religion but that

1287
00:48:25,028 --> 00:48:28,690
would just be doing what people claiming

1288
00:48:26,528 --> 00:48:30,429
religion does a lot so I don't think

1289
00:48:28,690 --> 00:48:32,048
it's important to explain to people what

1290
00:48:30,429 --> 00:48:33,518
you guys are up too sometimes so did you

1291
00:48:32,048 --> 00:48:35,889
get in trouble at the loose change

1292
00:48:33,518 --> 00:48:40,328
screening menus Oh Toby you wouldn't

1293
00:48:35,889 --> 00:48:42,998
bring that up listen is a curious Google

1294
00:48:40,329 --> 00:48:44,950
loose change it's all known 11 true for

1295
00:48:42,998 --> 00:48:46,268
things I'm sure that everybody everybody

1296
00:48:44,949 --> 00:48:49,058
everybody listening knows what that's

1297
00:48:46,268 --> 00:48:50,709

about but the latest version is a bit

1298

00:48:49,059 --> 00:48:52,180

more straightforward as a documentary

1299

00:48:50,710 --> 00:48:53,650

and that's going to have me shot by both

1300

00:48:52,179 --> 00:48:56,318

sides for sure even by saying that

1301

00:48:53,650 --> 00:48:58,119

because they do bring some testable

1302

00:48:56,318 --> 00:48:59,619

evidence in there in the form of science

1303

00:48:58,119 --> 00:49:02,710

who claimed scientist who claims he

1304

00:48:59,619 --> 00:49:04,239

found some nano-thermite and I just

1305

00:49:02,710 --> 00:49:06,099

brought up the fact of discussion

1306

00:49:04,239 --> 00:49:07,960

afterwards that well that could have

1307

00:49:06,099 --> 00:49:10,450

there was no chain of evidence like if

1308

00:49:07,960 --> 00:49:11,710

you if you are a police organization you

1309

00:49:10,449 --> 00:49:13,419

have someone who gets evidence from the

1310

00:49:11,710 --> 00:49:15,759

scene and they sign off to everybody

1311

00:49:13,420 --> 00:49:18,400

before it gets to the lab and there was

1312
00:49:15,759 --> 00:49:19,869
no chain of evidence as such there and

1313
00:49:18,400 --> 00:49:22,450
so it could have been come from

1314
00:49:19,869 --> 00:49:24,430
somewhere else conceivably or maybe it

1315
00:49:22,449 --> 00:49:26,409
was there because some it was in one of

1316
00:49:24,429 --> 00:49:28,118
them being at the CIA had the FBI had

1317
00:49:26,409 --> 00:49:31,348
all kinds of Billy Billy dared to

1318
00:49:28,119 --> 00:49:34,719
contradict something well I Asian I

1319
00:49:31,349 --> 00:49:36,670
offered an alternative solution and were

1320
00:49:34,719 --> 00:49:38,108
they delighted and pleased that somebody

1321
00:49:36,670 --> 00:49:39,969
came along with a different idea look

1322
00:49:38,108 --> 00:49:42,818
I'm trying not to paint them as being

1323
00:49:39,969 --> 00:49:44,679
any one way or the other but um let's

1324
00:49:42,818 --> 00:49:45,099
just say that they were not happy with

1325
00:49:44,679 --> 00:49:47,469
me doing

1326
00:49:45,099 --> 00:49:50,099
yeah I see my dad and I had a discussion

1327
00:49:47,469 --> 00:49:53,439
about this earlier this week and I

1328
00:49:50,099 --> 00:49:56,469
talked about how a dragon con not this

1329
00:49:53,440 --> 00:49:59,320
year but last year during a talk by Ben

1330
00:49:56,469 --> 00:50:01,329
Radford and Joe Nickell they were there

1331
00:49:59,320 --> 00:50:04,320
were two guys who were ghost hunters who

1332
00:50:01,329 --> 00:50:06,940
were in the audience and they took

1333
00:50:04,320 --> 00:50:09,460
exception to something that Ben Radford

1334
00:50:06,940 --> 00:50:11,320
said about their about ghosts or

1335
00:50:09,460 --> 00:50:13,449
something and they stood up and started

1336
00:50:11,320 --> 00:50:15,100
yelling and screaming yeah and Joe

1337
00:50:13,449 --> 00:50:18,250
Nickell just very calmly answered their

1338
00:50:15,099 --> 00:50:19,630
questions just you know gave them the

1339
00:50:18,250 --> 00:50:22,150
information that they wanted but they

1340

00:50:19,630 --> 00:50:24,190
were yelling and got quite angry and

1341
00:50:22,150 --> 00:50:26,349
eventually I think they stormed out if i

1342
00:50:24,190 --> 00:50:30,460
recall correctly so although we're

1343
00:50:26,349 --> 00:50:32,650
painted as as these nasty people that

1344
00:50:30,460 --> 00:50:34,539
dabangg can pooh-pooh everything I've

1345
00:50:32,650 --> 00:50:37,269
never seen a skeptic do that I've never

1346
00:50:34,539 --> 00:50:39,130
seen a skeptic yell at a believer who

1347
00:50:37,269 --> 00:50:41,259
I'm an idiot who call them stupid or

1348
00:50:39,130 --> 00:50:43,150
I've not ever experienced that I've

1349
00:50:41,260 --> 00:50:45,070
always that you can see people get

1350
00:50:43,150 --> 00:50:47,710
frustrated and sometimes a little bit

1351
00:50:45,070 --> 00:50:49,330
worked up but they will never look you

1352
00:50:47,710 --> 00:50:51,280
never tell you they don't ever shout you

1353
00:50:49,329 --> 00:50:52,960
down and tell you to shut up it might it

1354
00:50:51,280 --> 00:50:54,850

might look I can see it happening when

1355

00:50:52,960 --> 00:50:56,530

somebody who thinks there is skeptical

1356

00:50:54,849 --> 00:50:58,989

calls and this is Elsa skeptic which a

1357

00:50:56,530 --> 00:51:01,630

lot of people do yeah yeah it starts to

1358

00:50:58,989 --> 00:51:03,159

go off the rails but and look I would

1359

00:51:01,630 --> 00:51:05,230

certainly never call myself a skeptic

1360

00:51:03,159 --> 00:51:06,909

because I'm you know what I'm a bit of

1361

00:51:05,230 --> 00:51:08,590

Paris kept it go a bit curious about

1362

00:51:06,909 --> 00:51:10,719

things but I'm I haven't got much

1363

00:51:08,590 --> 00:51:12,490

knowledge that most people around this

1364

00:51:10,719 --> 00:51:14,259

table tend to have about things chief

1365

00:51:12,489 --> 00:51:15,789

Richards pretty clever you know he sees

1366

00:51:14,260 --> 00:51:20,260

free smart they just dropped his food on

1367

00:51:15,789 --> 00:51:26,230

the floor Thank You Man I'm sure our

1368

00:51:20,260 --> 00:51:30,280

listeners wanted to know that but but I

1369
00:51:26,230 --> 00:51:32,139
I think what the people from let's just

1370
00:51:30,280 --> 00:51:34,150
say who are non skeptics off often feel

1371
00:51:32,139 --> 00:51:36,369
as that skeptics are reinforcing what is

1372
00:51:34,150 --> 00:51:38,289
considered to be consensus reality and

1373
00:51:36,369 --> 00:51:39,969
that you guys are if not working for the

1374
00:51:38,289 --> 00:51:41,529
man have been sucked into some view of

1375
00:51:39,969 --> 00:51:43,239
reality a lot of people think that yeah

1376
00:51:41,530 --> 00:51:44,890
suck into some view of reality which

1377
00:51:43,239 --> 00:51:45,959
people are going along with which which

1378
00:51:44,889 --> 00:51:47,579
they have seen

1379
00:51:45,960 --> 00:51:49,079
alternative to and they kind of get

1380
00:51:47,579 --> 00:51:50,789
annoyed because you won't do that's why

1381
00:51:49,079 --> 00:51:52,799
the 911 troopers like the people

1382
00:51:50,789 --> 00:51:54,869
themselves as the real skeptics in that

1383
00:51:52,800 --> 00:51:56,940
situation or in the old days when the

1384
00:51:54,869 --> 00:52:01,019
moon hoax was still going on the other

1385
00:51:56,940 --> 00:52:03,150
days still go yeah it's pretty sort of

1386
00:52:01,019 --> 00:52:04,800
but the people railing against saying

1387
00:52:03,150 --> 00:52:06,990
you know that the moon hoax see what was

1388
00:52:04,800 --> 00:52:08,730
the moon landings were filmed in the

1389
00:52:06,989 --> 00:52:11,279
studio they would call themselves the

1390
00:52:08,730 --> 00:52:13,019
real skeptics you see him well this also

1391
00:52:11,280 --> 00:52:14,760
brings a wider thing of where the

1392
00:52:13,019 --> 00:52:16,858
climate skeptics sit in the whole thing

1393
00:52:14,760 --> 00:52:18,570
too because that that's a really big one

1394
00:52:16,858 --> 00:52:20,730
that's almost as bad as the atheists in

1395
00:52:18,570 --> 00:52:23,130
the skeptics custard look to be honest

1396
00:52:20,730 --> 00:52:24,480
the skeptic zone usually steers a bit

1397

00:52:23,130 --> 00:52:26,070
clear of that topic for that very

1398
00:52:24,480 --> 00:52:27,510
reasonable because it's a huge topic

1399
00:52:26,070 --> 00:52:29,400
with the huge amount of information that

1400
00:52:27,510 --> 00:52:31,530
if you've got to prove one side of the

1401
00:52:29,400 --> 00:52:33,269
other no I don't know I mean how do you

1402
00:52:31,530 --> 00:52:35,730
guys handle it are you talking about

1403
00:52:33,269 --> 00:52:37,858
climate change oh yeah well as

1404
00:52:35,730 --> 00:52:40,440
Australians give deeps which I represent

1405
00:52:37,858 --> 00:52:41,819
and so does Richard we about eight

1406
00:52:40,440 --> 00:52:43,740
months ago we actually wrote a statement

1407
00:52:41,820 --> 00:52:45,930
on our website issued a statement saying

1408
00:52:43,739 --> 00:52:49,169
that we don't talk about climate change

1409
00:52:45,929 --> 00:52:50,489
we are not we are not climate change

1410
00:52:49,170 --> 00:52:52,588
skeptics they are different by the

1411
00:52:50,489 --> 00:52:54,118

difference in us yeah we try to

1412

00:52:52,588 --> 00:52:57,420
differentiate ourselves by calling

1413

00:52:54,119 --> 00:53:01,108
ourselves skeptics with a capital s not

1414

00:52:57,420 --> 00:53:04,380
just skeptics like yeah but we can't

1415

00:53:01,108 --> 00:53:07,469
have we can't be across all basis all

1416

00:53:04,380 --> 00:53:10,079
the time hmm and as I may not climate

1417

00:53:07,469 --> 00:53:11,399
change sign I haven't signed us so we

1418

00:53:10,079 --> 00:53:13,259
leave it up to the best opinion at the

1419

00:53:11,400 --> 00:53:14,820
time you know I wrote to one of the

1420

00:53:13,260 --> 00:53:17,010
offend of the show know who wrote to me

1421

00:53:14,820 --> 00:53:19,200
recently asking me something like this I

1422

00:53:17,010 --> 00:53:23,609
said look we pick our fights we can't

1423

00:53:19,199 --> 00:53:27,029
cover every possible situation we just

1424

00:53:23,608 --> 00:53:29,329
can't it's impossible I like to confine

1425

00:53:27,030 --> 00:53:31,349
myself to broadly speaking to these

1426
00:53:29,329 --> 00:53:33,329
traditional skeptical outlook which is

1427
00:53:31,349 --> 00:53:35,369
paranormal supernatural all made that

1428
00:53:33,329 --> 00:53:37,409
sort of stuff if other people want to

1429
00:53:35,369 --> 00:53:40,200
chase other topics then that that's

1430
00:53:37,409 --> 00:53:42,210
really great because if I tried to chase

1431
00:53:40,199 --> 00:53:43,739
every topic that people think we should

1432
00:53:42,210 --> 00:53:45,420
be chasing with

1433
00:53:43,739 --> 00:53:48,539
we couldn't get anywhere this was the

1434
00:53:45,420 --> 00:53:50,610
subject of a discussion that occurred

1435
00:53:48,539 --> 00:53:53,929
after tam 8 this year Richard because

1436
00:53:50,610 --> 00:53:57,360
Richard Dawkins scared at all where he

1437
00:53:53,929 --> 00:54:00,750
in he kind of set out what he thought

1438
00:53:57,360 --> 00:54:02,309
should be the priorities for skeptics to

1439
00:54:00,750 --> 00:54:03,719
be dealing with and who said the first

1440
00:54:02,309 --> 00:54:05,880
thing that they should be dealing with

1441
00:54:03,719 --> 00:54:08,279
and the most important thing is religion

1442
00:54:05,880 --> 00:54:11,579
and then everything else comes after

1443
00:54:08,280 --> 00:54:13,800
that now I don't agree with that I think

1444
00:54:11,579 --> 00:54:15,210
like you that each person should just

1445
00:54:13,800 --> 00:54:19,350
pick their fight depending on what they

1446
00:54:15,210 --> 00:54:21,030
want to do I particularly disagree with

1447
00:54:19,349 --> 00:54:24,299
that because I think that people that

1448
00:54:21,030 --> 00:54:26,190
push old med or scam products or

1449
00:54:24,300 --> 00:54:30,050
anti-vaccination people are doing a lot

1450
00:54:26,190 --> 00:54:33,630
more direct damage than religious people

1451
00:54:30,050 --> 00:54:36,060
so he said his idea was well everything

1452
00:54:33,630 --> 00:54:37,140
else is irrelevant because religion is

1453
00:54:36,059 --> 00:54:38,820
the biggest problem that we have

1454

00:54:37,139 --> 00:54:40,949
remember that's that's his fine and

1455
00:54:38,820 --> 00:54:42,300
that's fine I know but I and that's fine

1456
00:54:40,949 --> 00:54:43,679
he come down and do that and he does a

1457
00:54:42,300 --> 00:54:46,769
good job of that and that's his business

1458
00:54:43,679 --> 00:54:48,000
but to then say that everyone else

1459
00:54:46,769 --> 00:54:50,099
should be doing that I think it's wrong

1460
00:54:48,000 --> 00:54:52,050
I think people can pick their fights and

1461
00:54:50,099 --> 00:54:54,329
if you somebody wants to go off and

1462
00:54:52,050 --> 00:54:56,670
debunk climate change that's what ever

1463
00:54:54,329 --> 00:54:59,579
thats good going you know knock yourself

1464
00:54:56,670 --> 00:55:01,710
out that's not what I do I try and apply

1465
00:54:59,579 --> 00:55:04,469
my skills where I can to do the best I

1466
00:55:01,710 --> 00:55:07,530
can and to that for me is not religion

1467
00:55:04,469 --> 00:55:08,879
so now I know I totally agree because we

1468
00:55:07,530 --> 00:55:11,609

do pick our fights because that's where

1469

00:55:08,880 --> 00:55:13,380

our specialty lies yeah and now I'm I

1470

00:55:11,608 --> 00:55:14,940

wouldn't be much good out there when I'm

1471

00:55:13,380 --> 00:55:16,410

climate change I really wouldn't I'd

1472

00:55:14,940 --> 00:55:17,970

look like a goose cuz i really don't

1473

00:55:16,409 --> 00:55:19,230

know enough about it who does you know

1474

00:55:17,969 --> 00:55:21,089

it's really difficult i don't know how

1475

00:55:19,230 --> 00:55:22,409

to tell as creationists because i don't

1476

00:55:21,090 --> 00:55:24,119

know their arguments that's not my area

1477

00:55:22,409 --> 00:55:25,480

right but I can certainly get out there

1478

00:55:24,119 --> 00:55:28,750

and

1479

00:55:25,480 --> 00:55:30,250

do the old UFO which I did you just

1480

00:55:28,750 --> 00:55:31,900

ruined that book for everything I do

1481

00:55:30,250 --> 00:55:34,030

know that something is out there

1482

00:55:31,900 --> 00:55:36,039

unlocking Australia's paranormal secrets

1483
00:55:34,030 --> 00:55:37,780
you've torn the gusset out of that and

1484
00:55:36,039 --> 00:55:40,389
that's a scientific term I think Joe

1485
00:55:37,780 --> 00:55:43,060
that was first used by Madame Curie I

1486
00:55:40,389 --> 00:55:45,009
believe something you do in Radium now

1487
00:55:43,059 --> 00:55:46,779
who has published this book mammoth Wow

1488
00:55:45,010 --> 00:55:49,869
this one is let's park assist

1489
00:55:46,780 --> 00:55:51,040
from allen & unwinn Alan Lanham and I've

1490
00:55:49,869 --> 00:55:52,090
been trying to chase the authors for an

1491
00:55:51,039 --> 00:55:54,039
interview and I'd love to talk to them

1492
00:55:52,090 --> 00:55:55,690
I'd I just want to know how that what

1493
00:55:54,039 --> 00:55:58,210
these people were like that they met

1494
00:55:55,690 --> 00:55:59,829
unlocking Australia's paranormal secrets

1495
00:55:58,210 --> 00:56:01,539
something is out there I'm sure I'll

1496
00:55:59,829 --> 00:56:03,340
listeners could google that or maybe

1497
00:56:01,539 --> 00:56:05,289
find it in your favorite book shop it's

1498
00:56:03,340 --> 00:56:07,869
great picture in there right I think

1499
00:56:05,289 --> 00:56:10,090
it's over 300 pages sorry Rachel there's

1500
00:56:07,869 --> 00:56:12,880
a picture of the alleged monster that

1501
00:56:10,090 --> 00:56:15,160
lives in the hawkesbury river this is a

1502
00:56:12,880 --> 00:56:19,000
guy who I think you're familiar with Rex

1503
00:56:15,159 --> 00:56:20,319
Gilroy yeah um yeah II hunter and all

1504
00:56:19,000 --> 00:56:21,849
that sort of stuff hits from the Blue

1505
00:56:20,320 --> 00:56:23,140
Mountains and me and he's been doing

1506
00:56:21,849 --> 00:56:24,909
this for a long time but he believes

1507
00:56:23,139 --> 00:56:26,829
there's a dinosaur living in the

1508
00:56:24,909 --> 00:56:28,809
hawkesbury river and there's a

1509
00:56:26,829 --> 00:56:31,420
photograph in this book it's fantastic

1510
00:56:28,809 --> 00:56:34,509
actually is oh is this a satellite photo

1511

00:56:31,420 --> 00:56:36,070
no no it looks like at night I've got to

1512
00:56:34,510 --> 00:56:37,750
be a pennant now and say it please your

1513
00:56:36,070 --> 00:56:39,789
saw wasn't technically a dinosaur but I

1514
00:56:37,750 --> 00:56:44,849
know we give me there it is look there

1515
00:56:39,789 --> 00:56:49,750
it is look at small that's that's scary

1516
00:56:44,849 --> 00:56:51,940
yes Rachel stop laughing well I've got

1517
00:56:49,750 --> 00:56:53,170
some new here for you with child only be

1518
00:56:51,940 --> 00:56:54,820
made aware of this week I'm sure

1519
00:56:53,170 --> 00:56:56,800
American listeners will probably know

1520
00:56:54,820 --> 00:56:58,090
about this already but I rang Richard

1521
00:56:56,800 --> 00:56:59,650
and Rachel stretch she wasn't available

1522
00:56:58,090 --> 00:57:02,170
she was she was in some executive lounge

1523
00:56:59,650 --> 00:57:03,820
I couldn't get on the right path I bet

1524
00:57:02,170 --> 00:57:07,570
on the Richard immediately when I saw an

1525
00:57:03,820 --> 00:57:11,200

ad for what looked like infusion RX oh

1526

00:57:07,570 --> 00:57:14,050

yeah now what this is it will if what

1527

00:57:11,199 --> 00:57:16,210

seems to be purported to be is instead

1528

00:57:14,050 --> 00:57:18,369

of in getting Botox injections which can

1529

00:57:16,210 --> 00:57:20,108

go horribly wrong this the better you

1530

00:57:18,369 --> 00:57:22,030

get this substance which is in a syringe

1531

00:57:20,108 --> 00:57:23,559

but not with a needle that's right you

1532

00:57:22,030 --> 00:57:27,410

could use dab it onto the surface of

1533

00:57:23,559 --> 00:57:29,480

your skin and it it sort of freezes your

1534

00:57:27,409 --> 00:57:32,118

your muscles I watched the ad that he

1535

00:57:29,480 --> 00:57:34,159

sent me yeah yeah well and I've looked

1536

00:57:32,119 --> 00:57:37,010

it I've looked into it what it appears

1537

00:57:34,159 --> 00:57:40,239

to do is it makes the water molecules in

1538

00:57:37,010 --> 00:57:42,500

your skin swell and fill in the cracks

1539

00:57:40,239 --> 00:57:44,389

so it causes swelling in the water

1540
00:57:42,500 --> 00:57:46,760
molecules that's what it was claiming to

1541
00:57:44,389 --> 00:57:48,440
do you're horrified I'm wondering

1542
00:57:46,760 --> 00:57:51,170
whether this is the same out i saw on

1543
00:57:48,440 --> 00:57:52,909
pay-tv with the snake venom and it's got

1544
00:57:51,170 --> 00:57:55,659
this woman going look I can't even frown

1545
00:57:52,909 --> 00:58:00,139
any more like it's a good thing that you

1546
00:57:55,659 --> 00:58:02,538
was she got BP it's no it's it's a

1547
00:58:00,139 --> 00:58:04,098
similar product a similar product and

1548
00:58:02,539 --> 00:58:05,510
what they do is they do one off mmm

1549
00:58:04,099 --> 00:58:06,530
space and lyndella half and you're

1550
00:58:05,510 --> 00:58:09,680
thinking well that's not much good in

1551
00:58:06,530 --> 00:58:11,630
the bus home is it but the end I saw was

1552
00:58:09,679 --> 00:58:14,269
half is this stuff and half as Botox

1553
00:58:11,630 --> 00:58:17,720
yeah and can you choose which is Botox

1554
00:58:14,269 --> 00:58:19,068
and which is our stuff I'm actually

1555
00:58:17,719 --> 00:58:21,169
thinking of getting some of this and

1556
00:58:19,068 --> 00:58:22,849
trying the half face test at like one of

1557
00:58:21,170 --> 00:58:24,920
the skeptics meetings I reckon I'm just

1558
00:58:22,849 --> 00:58:26,568
the kind of guy like sometimes you need

1559
00:58:24,920 --> 00:58:29,750
an idiot and I'm just the kidiot to put

1560
00:58:26,568 --> 00:58:32,358
their hand up no I watched the ad you

1561
00:58:29,750 --> 00:58:33,980
sent me may not and and I did make some

1562
00:58:32,358 --> 00:58:37,730
claims about how it fills up the

1563
00:58:33,980 --> 00:58:39,980
wrinkles but didn't explain how well no

1564
00:58:37,730 --> 00:58:42,429
because first out you can't put water

1565
00:58:39,980 --> 00:58:46,039
into selves that just makes them first

1566
00:58:42,429 --> 00:58:48,558
because that's why when you with if you

1567
00:58:46,039 --> 00:58:50,630
are dehydrated and you get a drip you

1568

00:58:48,559 --> 00:58:53,720
get saline drip they don't put water in

1569
00:58:50,630 --> 00:58:56,960
TV because your cells are ass a line

1570
00:58:53,719 --> 00:58:58,909
that contain salts so if you put water

1571
00:58:56,960 --> 00:59:01,220
into a salty mixture that displaces the

1572
00:58:58,909 --> 00:59:04,639
salt and they're so burst listen to be

1573
00:59:01,219 --> 00:59:07,068
claiming that the water cells swell how

1574
00:59:04,639 --> 00:59:12,199
would they swell well they can't swell

1575
00:59:07,068 --> 00:59:15,108
unless you block the receptors on the

1576
00:59:12,199 --> 00:59:17,538
plasma membrane and you can't do that

1577
00:59:15,108 --> 00:59:19,788
with a syringe so I wanted I would how

1578
00:59:17,539 --> 00:59:20,720
it does work because it appeared to do

1579
00:59:19,789 --> 00:59:22,670
something area

1580
00:59:20,719 --> 00:59:25,489
yeah and and and there and they're very

1581
00:59:22,670 --> 00:59:28,490
big as mostly sings on long explanations

1582
00:59:25,489 --> 00:59:29,750

that don't mean much yeah got a moment

1583

00:59:28,489 --> 00:59:31,309

I'll actually go to their website now

1584

00:59:29,750 --> 00:59:32,900

and read it and maybe someone with a

1585

00:59:31,309 --> 00:59:34,579

doctorate can explain i qi the hell

1586

00:59:32,900 --> 00:59:36,320

can't while you're doing that manner you

1587

00:59:34,579 --> 00:59:37,699

look that up I just let our listen to

1588

00:59:36,320 --> 00:59:40,340

know about a few more things while we're

1589

00:59:37,699 --> 00:59:42,289

going the latest magazine from

1590

00:59:40,340 --> 00:59:45,410

Australian skeptics and verse skeptics

1591

00:59:42,289 --> 00:59:47,239

is out and available with a report on

1592

00:59:45,409 --> 00:59:50,089

Tam eight and many other things and you

1593

00:59:47,239 --> 00:59:56,689

can have a little order that in fact at

1594

00:59:50,090 --> 00:59:58,940

ww skeptics calm a you up for auction at

1595

00:59:56,690 --> 01:00:02,000

the moment is death from the skies by

1596

00:59:58,940 --> 01:00:05,240

dr. Phil Plait as signed on the skeptic

1597
01:00:02,000 --> 01:00:11,030
zone episode 99 phil was very gracious

1598
01:00:05,239 --> 01:00:14,449
to sign a copy be quiet and wait there's

1599
01:00:11,030 --> 01:00:16,400
more look you get sick stay close oh now

1600
01:00:14,449 --> 01:00:18,829
phil was gracious enough to give me a

1601
01:00:16,400 --> 01:00:21,530
copy and sign it and that's up for

1602
01:00:18,829 --> 01:00:23,598
auction on ebay just googled death from

1603
01:00:21,530 --> 01:00:25,820
the skies still plate and i'll put a

1604
01:00:23,599 --> 01:00:28,130
link on the skeptic zone for that now

1605
01:00:25,820 --> 01:00:31,070
dr. Richie yes a quick nut word about

1606
01:00:28,130 --> 01:00:33,050
Tam Australia yes that's so exciting and

1607
01:00:31,070 --> 01:00:35,660
working very hard to bring our most

1608
01:00:33,050 --> 01:00:39,160
radical everybody we have become

1609
01:00:35,659 --> 01:00:43,429
available some sponsorship opportunities

1610
01:00:39,159 --> 01:00:44,899
for Tam Australia now we've got 600 plus

1611
01:00:43,429 --> 01:00:48,348
delegates coming along if there any

1612
01:00:44,900 --> 01:00:50,838
companies in Sydney or in Australia or

1613
01:00:48,349 --> 01:00:53,359
in the world anywhere anywhere who are

1614
01:00:50,838 --> 01:00:55,909
interested in sponsoring tam australia

1615
01:00:53,358 --> 01:00:58,819
by getting your information to every

1616
01:00:55,909 --> 01:01:02,299
delegate by leaflets or pens or whatever

1617
01:00:58,820 --> 01:01:03,559
you want to do you can contact us we're

1618
01:01:02,300 --> 01:01:05,930
looking for some more sponsors at the

1619
01:01:03,559 --> 01:01:08,150
moment and we've also got some new

1620
01:01:05,929 --> 01:01:10,608
speakers to announce richard which is

1621
01:01:08,150 --> 01:01:13,430
very exciting Australians would know

1622
01:01:10,608 --> 01:01:15,049
very well Steve Canaan who is a

1623
01:01:13,429 --> 01:01:16,699
journalist a Walkley award winning

1624
01:01:15,050 --> 01:01:22,670
journalist tranny hot he's pretty hot

1625

01:01:16,699 --> 01:01:25,689
too look at me or grin I think we have a

1626
01:01:22,670 --> 01:01:27,659
man-crush here a second and of course

1627
01:01:25,690 --> 01:01:30,838
currently

1628
01:01:27,659 --> 01:01:32,848
is on ABC 24 and does oh my god the drum

1629
01:01:30,838 --> 01:01:34,288
yeah but also works at late line and he

1630
01:01:32,849 --> 01:01:37,410
broke a lot of the stories about the

1631
01:01:34,289 --> 01:01:39,359
avian throughout 2010 he's going to be

1632
01:01:37,409 --> 01:01:42,598
coming we're also very excited to have

1633
01:01:39,358 --> 01:01:45,358
Nick cowdrey now he is the current DPP

1634
01:01:42,599 --> 01:01:49,490
the Director of Public Prosecutions yes

1635
01:01:45,358 --> 01:01:53,009
so o Allah I might keep a low profile

1636
01:01:49,489 --> 01:01:54,328
and catchment alum be and of course I

1637
01:01:53,010 --> 01:01:57,480
know that gets a secret the big smith

1638
01:01:54,329 --> 01:01:59,609
will be speaking yes dick smith is

1639
01:01:57,480 --> 01:02:02,400

actually going to be interviewing on

1640

01:01:59,608 --> 01:02:03,750

stage james randi although or a chat

1641

01:02:02,400 --> 01:02:06,539

they'll be chatting me i'll be chatting

1642

01:02:03,750 --> 01:02:08,159

what was that I said wow I'm so jealous

1643

01:02:06,539 --> 01:02:10,559

that I'm not gonna be here for 10 miles

1644

01:02:08,159 --> 01:02:12,538

that I'll be my way across the globe but

1645

01:02:10,559 --> 01:02:17,700

you can you get a little ater hosen

1646

01:02:12,539 --> 01:02:21,030

polka stuff ok yeah you can do the duck

1647

01:02:17,699 --> 01:02:23,368

dance no I'm close Richard you might

1648

01:02:21,030 --> 01:02:24,960

remember that dick smith was one of the

1649

01:02:23,369 --> 01:02:28,410

people who was a founding member of

1650

01:02:24,960 --> 01:02:31,650

australians indoors he is he was yeah so

1651

01:02:28,409 --> 01:02:33,389

for the first time in 30 years Randy and

1652

01:02:31,650 --> 01:02:35,190

it's not Dick Smith will be on stage

1653

01:02:33,389 --> 01:02:37,528

together chatting about the old days

1654
01:02:35,190 --> 01:02:41,039
that'll be fantastic a few more enough

1655
01:02:37,528 --> 01:02:46,260
quick announcements the the Opera House

1656
01:02:41,039 --> 01:02:49,278
has written to me and I yes it's a hyper

1657
01:02:46,260 --> 01:02:52,829
opera frankly I'm I'm skeptical of that

1658
01:02:49,278 --> 01:02:55,829
they're holding their holding the

1659
01:02:52,829 --> 01:02:58,410
festival of Dangerous Ideas in early

1660
01:02:55,829 --> 01:03:00,920
October second or third of October and

1661
01:02:58,409 --> 01:03:04,649
they've got events with people like

1662
01:03:00,920 --> 01:03:06,900
Geoffrey Robinson QC talking about

1663
01:03:04,650 --> 01:03:08,818
should the Pope be held to account that

1664
01:03:06,900 --> 01:03:12,210
sounds quite controversial another

1665
01:03:08,818 --> 01:03:15,119
highlight is why the religious will

1666
01:03:12,210 --> 01:03:18,028
inherit the earth anyway listeners can

1667
01:03:15,119 --> 01:03:20,970
certainly go to Sydney Opera House calm

1668
01:03:18,028 --> 01:03:23,730
/ what's on and find out more the

1669
01:03:20,969 --> 01:03:24,929
festival of Dangerous Ideas and a few

1670
01:03:23,730 --> 01:03:26,369
more announcements I'll get to at the

1671
01:03:24,929 --> 01:03:28,798
end of the show now may not what have we

1672
01:03:26,369 --> 01:03:30,390
found well look I've come up with a not

1673
01:03:28,798 --> 01:03:32,110
the actual website for this product but

1674
01:03:30,389 --> 01:03:34,809
it describes here what it's

1675
01:03:32,110 --> 01:03:38,170
I'll try and try and reel make this nice

1676
01:03:34,809 --> 01:03:39,579
and big dead dr. Reggie just explaining

1677
01:03:38,170 --> 01:03:42,909
this wrinkle cream does that help to you

1678
01:03:39,579 --> 01:03:44,980
at Oliver yes I've read this I read this

1679
01:03:42,909 --> 01:03:47,649
when you send it to me a feed respir

1680
01:03:44,980 --> 01:03:52,480
technology what is there yeah that's

1681
01:03:47,650 --> 01:03:54,730
made up so do you use the term

1682

01:03:52,480 --> 01:03:58,179
highly ironic now highly ironic acid is

1683
01:03:54,730 --> 01:04:01,210
a molecule that is part of I think I've

1684
01:03:58,179 --> 01:04:04,690
College ins component but it is actually

1685
01:04:01,210 --> 01:04:06,190
a molecule so then what they've done

1686
01:04:04,690 --> 01:04:07,450
here they noticed something which

1687
01:04:06,190 --> 01:04:09,190
shouldn't I talk about a lot is they've

1688
01:04:07,449 --> 01:04:11,169
taken a whole lot of science words and

1689
01:04:09,190 --> 01:04:13,659
they put them into a hat and then

1690
01:04:11,170 --> 01:04:15,579
they've pulled them out at random to

1691
01:04:13,659 --> 01:04:18,460
make it sound science ii so they've said

1692
01:04:15,579 --> 01:04:20,949
a feed rest via technology uses

1693
01:04:18,460 --> 01:04:23,320
hyaluronic microspheres of marine origin

1694
01:04:20,949 --> 01:04:25,179
that's they fill in deep

1695
01:04:23,320 --> 01:04:27,190
wrinkles dehydrated for a better

1696
01:04:25,179 --> 01:04:29,699

penetration their micro injected into

1697

01:04:27,190 --> 01:04:31,599
the skin and swell up with water

1698

01:04:29,699 --> 01:04:35,259
wrinkles are filled in very quickly

1699

01:04:31,599 --> 01:04:36,659
thanks to volume increase the technology

1700

01:04:35,260 --> 01:04:40,810
also provides long-lasting hydration

1701

01:04:36,659 --> 01:04:42,250
thanks to a micro reservoir effects so

1702

01:04:40,809 --> 01:04:45,190
somehow they're claiming that there's

1703

01:04:42,250 --> 01:04:47,079
water coming from somewhere else in your

1704

01:04:45,190 --> 01:04:49,059
skin to swell it up or as the water

1705

01:04:47,079 --> 01:04:52,029
coming from the cream that is put on it

1706

01:04:49,059 --> 01:04:54,210
and why can't you have a hydrologic

1707

01:04:52,030 --> 01:04:57,220
microsphere of marina region by the way

1708

01:04:54,210 --> 01:04:59,559
hyaluronic acid is a compound microscope

1709

01:04:57,219 --> 01:05:04,839
is is a word but that sentence is

1710

01:04:59,559 --> 01:05:07,210
amazing Marine origin well I mean it

1711
01:05:04,840 --> 01:05:08,829
comes from fish or call wrong at all

1712
01:05:07,210 --> 01:05:12,940
have you wanna custard you can just buy

1713
01:05:08,829 --> 01:05:15,219
it in a jar marine origin is pretty

1714
01:05:12,940 --> 01:05:16,750
meaningless system yeah maybe they

1715
01:05:15,219 --> 01:05:18,699
bought it at a shop near the harbor I

1716
01:05:16,750 --> 01:05:21,550
used to watch marine boy when I was a

1717
01:05:18,699 --> 01:05:24,009
boy it came off he had if he had great

1718
01:05:21,550 --> 01:05:25,450
swimmers dude trillion I'm I'm currently

1719
01:05:24,010 --> 01:05:29,170
writing a paper on this

1720
01:05:25,449 --> 01:05:30,789
it was like astro boy yeah on how people

1721
01:05:29,170 --> 01:05:32,500
use science is sounding words to make

1722
01:05:30,789 --> 01:05:34,358
their products are more legitimate and

1723
01:05:32,500 --> 01:05:36,670
then they can charge weirdly turns into

1724
01:05:34,358 --> 01:05:38,828
battery yeah well we did that we did

1725
01:05:36,670 --> 01:05:41,650
that yeah and you've done that as well

1726
01:05:38,829 --> 01:05:44,140
as he oh and also the one you do in

1727
01:05:41,650 --> 01:05:47,289
mystery investigators fake fake yes yeah

1728
01:05:44,139 --> 01:05:49,809
which is future applied was a future

1729
01:05:47,289 --> 01:05:52,480
applied committees kinetic energy yeah

1730
01:05:49,809 --> 01:05:54,369
right and here which is harmonic energy

1731
01:05:52,480 --> 01:05:56,800
oscillation yeah so this is an example

1732
01:05:54,369 --> 01:05:58,960
of where they've just taken a lot of

1733
01:05:56,800 --> 01:06:00,519
words that sound science ii and throwing

1734
01:05:58,960 --> 01:06:02,800
them into a sentence to make it sound

1735
01:06:00,519 --> 01:06:05,380
legitimate and then they can charge \$64

1736
01:06:02,800 --> 01:06:07,570
94 ah well see this is where i come see

1737
01:06:05,380 --> 01:06:08,769
dr. Reggie knows what the go is here I

1738
01:06:07,570 --> 01:06:10,210
see there'd and I think well that's

1739

01:06:08,769 --> 01:06:11,829
funny I can make a joke out of that

1740
01:06:10,210 --> 01:06:13,659
that's why you need people I got to

1741
01:06:11,829 --> 01:06:17,170
reach you in the world look I haven't

1742
01:06:13,659 --> 01:06:18,368
seen that the blurb is gibberish I don't

1743
01:06:17,170 --> 01:06:19,869
know if there's any evidence that this

1744
01:06:18,369 --> 01:06:22,599
stuff actually does anything I haven't

1745
01:06:19,869 --> 01:06:25,690
looked up the sign it does on the ad

1746
01:06:22,599 --> 01:06:27,400
well it just says here clinically proven

1747
01:06:25,690 --> 01:06:29,588
eighty-three percent reduction in

1748
01:06:27,400 --> 01:06:32,019
wrinkles or something so administered

1749
01:06:29,588 --> 01:06:33,190
minutes see photos oh no that's nothing

1750
01:06:32,019 --> 01:06:35,349
that's a different products out there

1751
01:06:33,190 --> 01:06:37,358
today but like I said I might actually

1752
01:06:35,349 --> 01:06:39,760
put down some of the the main-yard

1753
01:06:37,358 --> 01:06:41,858

millions on this and and maybe try it

1754

01:06:39,760 --> 01:06:44,440

out sometime and we'll see how we go I'm

1755

01:06:41,858 --> 01:06:45,848

looking forward to it let me quickly

1756

01:06:44,440 --> 01:06:47,500

mention a couple more things for our

1757

01:06:45,849 --> 01:06:52,059

listeners might be interested in there's

1758

01:06:47,500 --> 01:06:55,809

a new shop on zazzle stop merrill dory

1759

01:06:52,059 --> 01:06:57,759

oh you can buy your stop merrill dory

1760

01:06:55,809 --> 01:06:59,469

merchandise including t-shirts and

1761

01:06:57,760 --> 01:07:02,020

you're looking at one earlier dr. AG

1762

01:06:59,469 --> 01:07:04,480

yeah earlier that says i have a brain

1763

01:07:02,019 --> 01:07:06,039

too yes metal died up now there's lots

1764

01:07:04,480 --> 01:07:09,940

of links i've been given here but look

1765

01:07:06,039 --> 01:07:12,150

if listeners just go to zazzle.com au /

1766

01:07:09,940 --> 01:07:13,318

stop merrill dory

1767

01:07:12,150 --> 01:07:15,630

at the moment I think that's probably

1768
01:07:13,318 --> 01:07:17,369
the easiest thing to run to and check

1769
01:07:15,630 --> 01:07:20,369
out the list of merchandise you can also

1770
01:07:17,369 --> 01:07:26,548
buy a mug that says vaccination it works

1771
01:07:20,369 --> 01:07:29,039
bitches in fact I've got on under my

1772
01:07:26,548 --> 01:07:31,650
sleeve I've got my vaccination tattoo

1773
01:07:29,039 --> 01:07:33,359
you roll up my sleeve right dr. AG and

1774
01:07:31,650 --> 01:07:36,059
there it is look I know me I'm

1775
01:07:33,358 --> 01:07:38,098
fascinated that's so cool yeah that is

1776
01:07:36,059 --> 01:07:39,660
very nice you guys now if you were

1777
01:07:38,099 --> 01:07:41,519
really serious you would had a blood

1778
01:07:39,659 --> 01:07:43,469
tattoo like Penn & Teller recommended

1779
01:07:41,519 --> 01:07:45,449
data method which is you go to a tattoo

1780
01:07:43,469 --> 01:07:47,399
parlor they don't want ink in there and

1781
01:07:45,449 --> 01:07:48,989
they do it with the needle so it's cars

1782
01:07:47,400 --> 01:07:50,608
but then it goes away after a while if

1783
01:07:48,989 --> 01:07:52,709
you're a serious science guy you'd have

1784
01:07:50,608 --> 01:07:54,538
a blood test maybe I'm not okay oh yes

1785
01:07:52,710 --> 01:07:59,250
then has a little bit scared of things

1786
01:07:54,539 --> 01:08:01,230
like that time and finally we have a we

1787
01:07:59,250 --> 01:08:03,028
have a new forum which may be of

1788
01:08:01,230 --> 01:08:05,369
interest to our listeners in New Zealand

1789
01:08:03,028 --> 01:08:09,599
Australia and the Pacific region which

1790
01:08:05,369 --> 01:08:13,528
is HTTP colon slash slash australasian

1791
01:08:09,599 --> 01:08:16,600
skeptics dot info to new forum just

1792
01:08:13,528 --> 01:08:18,729
started up about the

1793
01:08:16,600 --> 01:08:23,410
specific interest to Australia New

1794
01:08:18,729 --> 01:08:26,199
Zealand and the area there so as they

1795
01:08:23,409 --> 01:08:28,449
say as Molly Meldrum would say do

1796

01:08:26,199 --> 01:08:29,979
yourself a favor do yourself a favor

1797
01:08:28,449 --> 01:08:36,399
we're at cowboy hat and do try and be

1798
01:08:29,979 --> 01:08:38,139
gay I see but that's only for the

1799
01:08:36,399 --> 01:08:40,659
Austrian lessness can I just bring some

1800
01:08:38,140 --> 01:08:43,270
terbium into it for a moment oh yes now

1801
01:08:40,659 --> 01:08:45,639
um okay as you know I gay what should I

1802
01:08:43,270 --> 01:08:48,820
keep up with their current events at the

1803
01:08:45,640 --> 01:08:51,760
moment China has stopped all exports of

1804
01:08:48,819 --> 01:08:52,869
raw earth elements to Japan well big

1805
01:08:51,760 --> 01:08:54,880
deal we'll get them somewhere else well

1806
01:08:52,869 --> 01:08:57,220
probably you know Japan's bit unhappy

1807
01:08:54,880 --> 01:08:59,619
about this because terbium is one rare

1808
01:08:57,220 --> 01:09:00,850
earth element of which I think China has

1809
01:08:59,619 --> 01:09:03,279
about ninety three percent of the

1810
01:09:00,850 --> 01:09:04,750

world's supply now terbium is the kind

1811

01:09:03,279 --> 01:09:06,519

of thing instead of bound within other

1812

01:09:04,750 --> 01:09:08,289

rocks on that but it is really useful

1813

01:09:06,520 --> 01:09:10,780

and I had to look this up to make sure I

1814

01:09:08,289 --> 01:09:13,420

say this right it is a crystal

1815

01:09:10,779 --> 01:09:14,979

stabilizer in fuel cells so if using a

1816

01:09:13,420 --> 01:09:17,710

fuel cell in anything could be like you

1817

01:09:14,979 --> 01:09:19,569

know you're here hybrid cars or anything

1818

01:09:17,710 --> 01:09:21,460

that they used for now you probably need

1819

01:09:19,569 --> 01:09:23,019

a bit of turbulence get a bit upset

1820

01:09:21,460 --> 01:09:24,010

about this and the reason the Chinese

1821

01:09:23,020 --> 01:09:25,690

aren't letting in the habit is because

1822

01:09:24,010 --> 01:09:27,039

they've got is a fishing dispute going

1823

01:09:25,689 --> 01:09:29,289

on between the two of them at the moment

1824

01:09:27,039 --> 01:09:31,810

so the Vietnamese are getting into this

1825
01:09:29,289 --> 01:09:33,340
by getting a bit some terbium processing

1826
01:09:31,810 --> 01:09:36,370
factories just near the border people

1827
01:09:33,340 --> 01:09:38,680
are sneak in terbium over so next time

1828
01:09:36,369 --> 01:09:40,180
in plot conversation go well if

1829
01:09:38,680 --> 01:09:42,760
something Bad's happening wells not as

1830
01:09:40,180 --> 01:09:45,609
bad as that terbium situation and then

1831
01:09:42,760 --> 01:09:51,270
go so try and use that I say on the was

1832
01:09:45,609 --> 01:09:54,130
a skippy scarred universe sure be there

1833
01:09:51,270 --> 01:09:56,170
quote a wealth of information right no

1834
01:09:54,130 --> 01:09:58,810
no another will can he said in the

1835
01:09:56,170 --> 01:10:01,239
DeLorean in Back to the Future made up I

1836
01:09:58,810 --> 01:10:02,950
reckon you would I reckon a flux

1837
01:10:01,239 --> 01:10:05,439
capacitor the bit where the crazy

1838
01:10:02,949 --> 01:10:08,889
science the banana in that that little

1839
01:10:05,439 --> 01:10:11,589
battle mr. was enormous mr. fuel mr.

1840
01:10:08,890 --> 01:10:15,940
fusion diffusion was probably pure

1841
01:10:11,590 --> 01:10:17,680
terbium and finally just another note

1842
01:10:15,939 --> 01:10:19,899
from me or two more notes our good

1843
01:10:17,680 --> 01:10:20,770
friend philip has coffee now he's back

1844
01:10:19,899 --> 01:10:22,599
in Austria

1845
01:10:20,770 --> 01:10:24,220
yeah I think he's in Melbourne at the

1846
01:10:22,600 --> 01:10:27,510
moment now he was interviewed on the

1847
01:10:24,220 --> 01:10:29,500
skeptical zone Oh three or four months ago

1848
01:10:27,510 --> 01:10:32,380
fantastic moment longer than that

1849
01:10:29,500 --> 01:10:34,899
fantastic Mentalist yeah then a really

1850
01:10:32,380 --> 01:10:36,640
nice bloke to boot philip s coffee check

1851
01:10:34,899 --> 01:10:38,199
him out if you're in Melbourne is that

1852
01:10:36,640 --> 01:10:40,030
the Melbourne comedy festival during a

1853

01:10:38,199 --> 01:10:41,710
show called six more impossible things

1854
01:10:40,029 --> 01:10:43,630
before dinner and I can thoroughly

1855
01:10:41,710 --> 01:10:45,300
recommend that you go see it hey Philip

1856
01:10:43,630 --> 01:10:49,150
if you're listening give us a shot and

1857
01:10:45,300 --> 01:10:50,800
finally the last episode of the skeptic

1858
01:10:49,149 --> 01:10:54,579
zone which was of course the skeptics

1859
01:10:50,800 --> 01:10:58,239
and live from dragoncon is now online on

1860
01:10:54,579 --> 01:11:01,180
YouTube as a video you can check it out

1861
01:10:58,239 --> 01:11:04,840
if you go to youtube and just type in

1862
01:11:01,180 --> 01:11:08,890
skeptic zone or my youtube channel which

1863
01:11:04,840 --> 01:11:10,930
is skeptic zone podcast all one word and

1864
01:11:08,890 --> 01:11:12,579
please if you are out come along to the

1865
01:11:10,930 --> 01:11:14,770
big skeptic atheist blow out of the bar

1866
01:11:12,579 --> 01:11:17,739
on the hill you councilman said their

1867
01:11:14,770 --> 01:11:20,080

night and look me and Dunning a mean

1868

01:11:17,739 --> 01:11:21,609

meet me and Brian Dunning a very close

1869

01:11:20,079 --> 01:11:23,019

in fact I've got this very special event

1870

01:11:21,609 --> 01:11:25,149

coming up with the skeptics in Sydney

1871

01:11:23,020 --> 01:11:27,220

soon and I rang Brian I said Brian I

1872

01:11:25,149 --> 01:11:28,420

need your full support behind this and

1873

01:11:27,220 --> 01:11:31,780

he has thrown himself wholeheartedly

1874

01:11:28,420 --> 01:11:35,710

behind me talking to the skeptics he's

1875

01:11:31,779 --> 01:11:39,939

that sort of guy from scribd com room

1876

01:11:35,710 --> 01:11:43,090

now big it's um it's it's a bond by osh

1877

01:11:39,939 --> 01:11:47,589

it is boys as you'll soon be saying good

1878

01:11:43,090 --> 01:11:49,060

the riser yeah again all our German

1879

01:11:47,590 --> 01:11:50,409

listeners Meg's heading your way she's

1880

01:11:49,060 --> 01:11:53,110

going to be living in Hamburg but check

1881

01:11:50,409 --> 01:11:54,220

out the Hamburg skeptics and you'll be

1882
01:11:53,109 --> 01:11:55,869
looking forward to meeting all such

1883
01:11:54,220 --> 01:11:58,180
people looking forward very much to

1884
01:11:55,869 --> 01:12:00,430
meeting them seeing what is the topics

1885
01:11:58,180 --> 01:12:01,840
that the German skeptics are are talking

1886
01:12:00,430 --> 01:12:03,610
about what what are the fights that

1887
01:12:01,840 --> 01:12:06,220
they're fighting over there and I know

1888
01:12:03,609 --> 01:12:07,250
homeopathy is huge in Germany very very

1889
01:12:06,220 --> 01:12:09,500
entrenched

1890
01:12:07,250 --> 01:12:12,020
so I do know that the Hamburg skeptics

1891
01:12:09,500 --> 01:12:14,750
are getting behind the 10 23 campaign

1892
01:12:12,020 --> 01:12:15,680
for next beginning of next year so that

1893
01:12:14,750 --> 01:12:18,590
will definitely be something to look

1894
01:12:15,680 --> 01:12:21,050
forward to and seeing how the Germans

1895
01:12:18,590 --> 01:12:23,750
react to to a whole bunch of skeptics

1896
01:12:21,050 --> 01:12:26,029
overdosing on homeopathy medication well

1897
01:12:23,750 --> 01:12:28,069
look may get there if anything comes up

1898
01:12:26,029 --> 01:12:34,670
and you're able to send us a report but

1899
01:12:28,069 --> 01:12:36,139
wait alchemy European correspondent good

1900
01:12:34,670 --> 01:12:37,670
in the bottom third when your photos up

1901
01:12:36,140 --> 01:12:39,860
there and and I just say that earlier

1902
01:12:37,670 --> 01:12:41,569
this year I proposed to the ABC that I

1903
01:12:39,859 --> 01:12:43,609
did and overdosing on Homer pathak

1904
01:12:41,569 --> 01:12:45,590
medicine at the front of John Hunter

1905
01:12:43,609 --> 01:12:46,849
Hospital film did did it live so episode

1906
01:12:45,590 --> 01:12:49,250
anything goes wrong I could just go on

1907
01:12:46,850 --> 01:12:50,420
into the casualty and I want to put out

1908
01:12:49,250 --> 01:12:51,800
though I was gonna be outside because I

1909
01:12:50,420 --> 01:12:53,029
didn't want actually clogged up casualty

1910

01:12:51,800 --> 01:12:54,560
with something like that you know that

1911
01:12:53,029 --> 01:12:56,119
wasn't needed i was going to be outside

1912
01:12:54,560 --> 01:12:57,860
and they would not let me do it they

1913
01:12:56,119 --> 01:12:59,779
said it is imitable behavior and you are

1914
01:12:57,859 --> 01:13:02,420
not allowed to do that how you see

1915
01:12:59,779 --> 01:13:04,670
maenad i am yes so you guys can be yes

1916
01:13:02,420 --> 01:13:06,529
oh yeah so you know ABC staff another

1917
01:13:04,670 --> 01:13:08,359
level overdose on homeopathic medicine

1918
01:13:06,529 --> 01:13:11,569
on camera because you sure we can take

1919
01:13:08,359 --> 01:13:13,849
as much coke as we like the window I'm

1920
01:13:11,569 --> 01:13:15,500
not allowed to touch the home of that

1921
01:13:13,850 --> 01:13:17,600
thank you may not and we look forward to

1922
01:13:15,500 --> 01:13:20,119
seeing you and Newcastle and then in

1923
01:13:17,600 --> 01:13:22,070
Sydney very soon for the first new

1924
01:13:20,119 --> 01:13:23,390

skeptics in the pub in our new pub and

1925

01:13:22,069 --> 01:13:24,859

the good thing is i'm only a small part

1926

01:13:23,390 --> 01:13:28,460

of both those events so it would be very

1927

01:13:24,859 --> 01:13:30,799

easy to miss me dr. AG thanks Richard

1928

01:13:28,460 --> 01:13:33,590

thank you for coming along and that was

1929

01:13:30,800 --> 01:13:35,630

a nice as ever I'm nice Chinese meal

1930

01:13:33,590 --> 01:13:37,310

we've had here at momma wants yes Mama's

1931

01:13:35,630 --> 01:13:39,529

lovely she always takes care of us as I

1932

01:13:37,310 --> 01:13:40,700

think he does oh and one last quick plug

1933

01:13:39,529 --> 01:13:43,519

if you like to know what kind of music

1934

01:13:40,699 --> 01:13:45,439

I'm into have listened at Manor com that

1935

01:13:43,520 --> 01:13:47,390

are you we've been doing a podcast line

1936

01:13:45,439 --> 01:13:49,460

from a bus stop and if you like the bus

1937

01:13:47,390 --> 01:13:50,930

announcements here a bus actually pulled

1938

01:13:49,460 --> 01:13:53,739

up and I interviewed a bus driver the

1939
01:13:50,930 --> 01:13:57,140
other day it's the opposite of gripping

1940
01:13:53,739 --> 01:13:58,789
is dripping its dripping

1941
01:13:57,140 --> 01:14:01,670
so thank you very much everybody for

1942
01:13:58,789 --> 01:14:03,079
coming along and uncle our next meeting

1943
01:14:01,670 --> 01:14:08,949
in a couple of weeks for the think tank

1944
01:14:03,079 --> 01:14:08,949
it's cheers Cheers yeah my ears

1945
01:14:09,219 --> 01:14:13,538
what did you say that

1946
01:14:34,369 --> 01:14:40,920
on Sunday October third at nine-thirty

1947
01:14:38,640 --> 01:14:42,869
am joined the Granite State skeptics on

1948
01:14:40,920 --> 01:14:45,359
a walking tour of historic Salem

1949
01:14:42,869 --> 01:14:47,579
Massachusetts learn the history and view

1950
01:14:45,359 --> 01:14:49,589
the sights of this historic town made

1951
01:14:47,579 --> 01:14:52,739
famous by arthur miller's the crucible

1952
01:14:49,590 --> 01:14:54,329
and the Salem witch trials we will be

1953
01:14:52,739 --> 01:14:56,219
meeting at the salem visitor center

1954
01:14:54,329 --> 01:14:58,890
where we will begin our tour and enjoy

1955
01:14:56,220 --> 01:15:01,199
such sights as a salem witch museum the

1956
01:14:58,890 --> 01:15:03,840
House of the Seven Gables and the Salem

1957
01:15:01,199 --> 01:15:05,819
pirate museum while the cost of the tour

1958
01:15:03,840 --> 01:15:08,460
is free some of the sites we will be

1959
01:15:05,819 --> 01:15:10,409
stopping at do charge a fee for more

1960
01:15:08,460 --> 01:15:14,119
information in full details check

1961
01:15:10,409 --> 01:15:14,119
Granite State skeptics org

1962
01:15:29,100 --> 01:15:35,170
thank you for listening to the skeptic

1963
01:15:31,659 --> 01:15:37,329
zone are more interviews from Tam 8

1964
01:15:35,170 --> 01:15:39,760
coming your way next week we have an

1965
01:15:37,329 --> 01:15:42,369
interview with bruce m hood and that's

1966
01:15:39,760 --> 01:15:44,380
conducted by dr. rachey thank you all

1967

01:15:42,369 --> 01:15:47,079
for continuing to listen and all the

1968
01:15:44,380 --> 01:15:49,569
support we've received after our 100th

1969
01:15:47,079 --> 01:15:51,340
episode and you can continue to support

1970
01:15:49,569 --> 01:15:53,679
the skeptic zone if you wish to by

1971
01:15:51,340 --> 01:15:55,510
subscribing only a dollar an episode if

1972
01:15:53,680 --> 01:15:58,210
you wish you'll find the links on our

1973
01:15:55,510 --> 01:16:00,489
homepage but until next week this is

1974
01:15:58,210 --> 01:16:05,680
Richard Saunders signing off from Sydney

1975
01:16:00,489 --> 01:16:10,000
Australia you've been listening to the

1976
01:16:05,680 --> 01:16:13,240
skeptic zone visit our website at WWF

1977
01:16:10,000 --> 01:16:16,640
digs on TV the comments contacts and

1978
01:16:13,239 --> 01:16:19,559
extra video reports

1979
01:16:16,640 --> 01:16:21,650
us kids

1980
01:16:19,560 --> 01:16:23,710
me

1981
01:16:21,649 --> 01:16:23,710

Oh

1982

01:16:28,149 --> 01:16:30,179

Oh

1983

01:16:35,300 --> 01:16:37,360

you