

1
00:00:00,000 --> 00:00:09,089
[Music]

2
00:00:05,929 --> 00:00:11,839
welcome to the skeptic zone the podcast

3
00:00:09,089 --> 00:00:13,919
from Australia for science and reason

4
00:00:11,839 --> 00:00:16,850
[Music]

5
00:00:13,919 --> 00:00:22,730
[Applause]

6
00:00:16,850 --> 00:00:25,230
[Music]

7
00:00:22,730 --> 00:00:29,099
yes it's the skeptics own podcast

8
00:00:25,230 --> 00:00:32,009
episode number 494 the 11th of March

9
00:00:29,099 --> 00:00:35,518
2018 richardsaunders here with you from

10
00:00:32,009 --> 00:00:42,920
a wonderfully warm not to Mikey

11
00:00:35,518 --> 00:00:47,698
sunny Sydney Australia episode 490 II

12
00:00:42,920 --> 00:00:50,908
500 is there now in sight episode 500 in

13
00:00:47,698 --> 00:00:53,339
and only at 10 weeks I have no idea

14
00:00:50,908 --> 00:00:56,909
folks no idea at all what I'll do for

15
00:00:53,340 --> 00:01:00,929
episode 500 but I'll have a chat to the

16
00:00:56,909 --> 00:01:03,659
other report ISM and coming up on this

17
00:01:00,929 --> 00:01:06,478
week's show an old friend of mine dr.

18
00:01:03,659 --> 00:01:08,399
Steven novella from the skeptics guide

19
00:01:06,478 --> 00:01:10,890
to the universe he's going to be telling

20
00:01:08,399 --> 00:01:13,019
us about the new book called the

21
00:01:10,890 --> 00:01:16,019
skeptics guide to universe how to know

22
00:01:13,019 --> 00:01:20,039
what's really real in a world

23
00:01:16,019 --> 00:01:21,810
increasingly full of fake always good to

24
00:01:20,039 --> 00:01:24,149
catch up with Steve novella and The

25
00:01:21,810 --> 00:01:26,390
Skeptical rogues whenever I can which

26
00:01:24,149 --> 00:01:28,739
isn't often of course because we live

27
00:01:26,390 --> 00:01:31,439
it's hard to imagine somebody living

28
00:01:28,739 --> 00:01:33,209
further away than the skeptical rogues

29

00:01:31,439 --> 00:01:35,789
to Sydney Australia all the way over

30
00:01:33,209 --> 00:01:39,359
there and you know mostly in Connecticut

31
00:01:35,789 --> 00:01:42,149
laughing anyway anyway Steve will also

32
00:01:39,359 --> 00:01:44,250
be telling us about the side project

33
00:01:42,149 --> 00:01:47,609
some of the rogues do called alpha

34
00:01:44,250 --> 00:01:50,209
quadrant six which maybe isn't entirely

35
00:01:47,609 --> 00:01:53,819
skeptical but it's about reviewing

36
00:01:50,209 --> 00:01:57,780
science fiction following that it's

37
00:01:53,819 --> 00:01:59,250
round 2 round 2 of The Skeptical trivia

38
00:01:57,780 --> 00:02:01,890
night we had a couple of weeks ago at

39
00:01:59,250 --> 00:02:05,368
Sydney's skeptics in the pub as part of

40
00:02:01,890 --> 00:02:07,618
Maenads spooky action and round two this

41
00:02:05,368 --> 00:02:10,860
week will be read out to you by Lara

42
00:02:07,618 --> 00:02:12,810
Benham and bear in mind this is the

43
00:02:10,860 --> 00:02:14,910

edited version so the questions come

44

00:02:12,810 --> 00:02:17,069

very quickly nevertheless you can play

45

00:02:14,909 --> 00:02:19,650

along and then Lara will read out the

46

00:02:17,068 --> 00:02:23,068

answers then to round off the show I

47

00:02:19,650 --> 00:02:26,580

chat to dr. Gleb surplus key who is a

48

00:02:23,068 --> 00:02:28,560

professor at Ohio State University he's

49

00:02:26,580 --> 00:02:31,980

going to be telling us about the truth

50

00:02:28,560 --> 00:02:34,319

pledge and his campaign for truth and

51

00:02:31,979 --> 00:02:35,079

about his new book the truth seekers

52

00:02:34,319 --> 00:02:39,099

hand

53

00:02:35,080 --> 00:02:42,100

a science-based guide is the truth out

54

00:02:39,099 --> 00:02:43,870

there is the truth in here I got a

55

00:02:42,099 --> 00:02:47,349

couple of cats behind me maybe they know

56

00:02:43,870 --> 00:02:51,580

the truth I think they do that interview

57

00:02:47,349 --> 00:02:54,129

coming up to round off the show now just

58
00:02:51,580 --> 00:02:56,620
last night Maine I'd come over for

59
00:02:54,129 --> 00:02:59,889
dinner that's always a YUM an occasion

60
00:02:56,620 --> 00:03:03,069
and before Maine odd came over we took

61
00:02:59,889 --> 00:03:05,259
him to get some food at this local

62
00:03:03,068 --> 00:03:08,229
supermarket and we went into the room of

63
00:03:05,259 --> 00:03:12,250
cheese in our local supermarket they

64
00:03:08,229 --> 00:03:16,629
have a special room very cold just the

65
00:03:12,250 --> 00:03:20,400
cheese may not in a cheese room so I'm

66
00:03:16,629 --> 00:03:23,859
gonna run downstairs have some cheese on

67
00:03:20,400 --> 00:03:26,409
toast or crackers come straight back up

68
00:03:23,860 --> 00:03:27,610
and enjoy with you the rest of the

69
00:03:26,409 --> 00:03:49,508
skeptic zone

70
00:03:27,610 --> 00:03:49,509
[Music]

71
00:03:50,299 --> 00:03:54,120
and joining me now all the way from

72
00:03:52,769 --> 00:03:56,849
Connecticut you've heard him on the

73
00:03:54,120 --> 00:03:59,340
skeptics guide to the universe dr. Steve

74
00:03:56,848 --> 00:04:01,828
novella hello Steve hey Richard how you

75
00:03:59,340 --> 00:04:03,329
doing I'm doing really well it's so nice

76
00:04:01,829 --> 00:04:05,700
to catch up with you to have a chat with

77
00:04:03,329 --> 00:04:07,560
you you've appeared on the the skeptic

78
00:04:05,699 --> 00:04:11,159
zone before as a guest but very rarely

79
00:04:07,560 --> 00:04:12,900
in a long time ago yeah yeah we should

80
00:04:11,159 --> 00:04:14,579
do this more often it's it's fun to me

81
00:04:12,900 --> 00:04:16,439
you know we were just marveling at the

82
00:04:14,579 --> 00:04:19,199
fact that we're talking across the

83
00:04:16,439 --> 00:04:21,629
planet without any delay it's like

84
00:04:19,199 --> 00:04:23,550
you're in the next room there's no delay

85
00:04:21,629 --> 00:04:26,639
folks it's weird I'm speaking to Steve

86

00:04:23,550 --> 00:04:28,889
from about quarter past 10:00 in the

87
00:04:26,639 --> 00:04:31,199
evening Sidney time and Steve I think

88
00:04:28,889 --> 00:04:35,788
it's early morning for you yeah it's

89
00:04:31,199 --> 00:04:37,879
6:00 a.m. the perfect time for global

90
00:04:35,788 --> 00:04:42,060
communication I thought I'd give you a

91
00:04:37,879 --> 00:04:43,889
good contact you congratulations on the

92
00:04:42,060 --> 00:04:46,019
continuing success of the skeptics guide

93
00:04:43,889 --> 00:04:48,569
to the universe podcast of course and

94
00:04:46,019 --> 00:04:51,329
it's because of your podcast and the

95
00:04:48,569 --> 00:04:55,199
rogue's that many people hear about the

96
00:04:51,329 --> 00:04:57,329
skeptic zone oh that's great yeah so we

97
00:04:55,199 --> 00:05:00,029
do have a lot of listeners in Australia

98
00:04:57,329 --> 00:05:02,459
we get to on our media host you know we

99
00:05:00,029 --> 00:05:05,449
could look at the distribution of our

100
00:05:02,459 --> 00:05:09,870

listeners and Australia I think is

101

00:05:05,449 --> 00:05:12,538

number two Wow and in terms of numbers

102

00:05:09,870 --> 00:05:14,610

and probably maybe even number one in

103

00:05:12,538 --> 00:05:17,250

terms of percentage of population right

104

00:05:14,610 --> 00:05:19,590

all right yeah I think there's a good

105

00:05:17,250 --> 00:05:22,348

audience here in Australia for this sort

106

00:05:19,589 --> 00:05:24,449

of thing but let's not talk about the

107

00:05:22,348 --> 00:05:26,430

podcast for a moment I'm interested

108

00:05:24,449 --> 00:05:28,379

because I it's come to my attention to

109

00:05:26,430 --> 00:05:30,329

why I sort of knew this before but it's

110

00:05:28,379 --> 00:05:33,209

only recently put being put out there

111

00:05:30,329 --> 00:05:35,639

online that the skeptics guide to the

112

00:05:33,209 --> 00:05:37,168

universe is not only a podcast it's a

113

00:05:35,639 --> 00:05:41,189

book what can you tell me about that

114

00:05:37,168 --> 00:05:42,990

that's right yeah so our our book which

115
00:05:41,189 --> 00:05:45,538
is the skeptics guide to the universe

116
00:05:42,990 --> 00:05:47,310
our eponymous book if you will it just

117
00:05:45,538 --> 00:05:50,729
became available for pre

118
00:05:47,310 --> 00:05:52,680
order on amazon.com which we're really

119
00:05:50,730 --> 00:05:55,680
excited about so the book itself will be

120
00:05:52,680 --> 00:05:57,930
released October 2nd

121
00:05:55,680 --> 00:06:00,540
it's a hundred percent written as you

122
00:05:57,930 --> 00:06:02,189
know but you probably know that the the

123
00:06:00,540 --> 00:06:04,590
process of publishing a book takes a

124
00:06:02,189 --> 00:06:06,719
long time so now it's the book so yeah

125
00:06:04,589 --> 00:06:08,819
the books totally done but all the

126
00:06:06,720 --> 00:06:11,250
logistical stuff has to still happen on

127
00:06:08,819 --> 00:06:14,339
the publisher end so there's still a lot

128
00:06:11,250 --> 00:06:15,720
of work to do but we're really excited

129
00:06:14,339 --> 00:06:17,819
about it we're actually getting started

130
00:06:15,720 --> 00:06:18,930
on our next books but maybe I'll talk

131
00:06:17,819 --> 00:06:21,779
about that next time

132
00:06:18,930 --> 00:06:24,530
wow that that's thinking ahead now what

133
00:06:21,779 --> 00:06:27,809
why the book and what's it all about

134
00:06:24,529 --> 00:06:30,599
so we've wanted to produce a book for a

135
00:06:27,810 --> 00:06:35,339
long time it's it's a complementary

136
00:06:30,600 --> 00:06:39,660
format I think to the podcast and we've

137
00:06:35,339 --> 00:06:41,759
also gotten a lot of requests for either

138
00:06:39,660 --> 00:06:45,300
specifically for us to produce a book or

139
00:06:41,759 --> 00:06:47,759
just like hey guys what would be the

140
00:06:45,300 --> 00:06:50,250
best book to give to somebody as an

141
00:06:47,759 --> 00:06:53,189
introduction to scientific skepticism or

142
00:06:50,250 --> 00:06:55,019
is there a good reference out there that

143

00:06:53,189 --> 00:06:56,339
will like systematically go through all

144
00:06:55,019 --> 00:06:58,109
the critical thinking stuff that you

145
00:06:56,339 --> 00:07:00,419
guys talk about on the show all the time

146
00:06:58,110 --> 00:07:02,129
and there yes there are references out

147
00:07:00,420 --> 00:07:03,810
there there are books out there we you

148
00:07:02,129 --> 00:07:06,629
know we refer to the demon haunted world

149
00:07:03,810 --> 00:07:08,459
a lot for example but those are books

150
00:07:06,629 --> 00:07:10,490
are getting a little dated you know they

151
00:07:08,459 --> 00:07:13,680
do get data there's been a ton of

152
00:07:10,490 --> 00:07:16,019
psychological research since some of the

153
00:07:13,680 --> 00:07:18,990
classic books of skepticism have come

154
00:07:16,019 --> 00:07:21,180
out and so we said you know what we just

155
00:07:18,990 --> 00:07:24,480
need to produce the book that everyone's

156
00:07:21,180 --> 00:07:28,680
asking for you know so we tried to make

157
00:07:24,480 --> 00:07:32,250

it simultaneously a few things one is a

158

00:07:28,680 --> 00:07:34,500

great introduction to people who have no

159

00:07:32,250 --> 00:07:36,000

idea what skepticism is or have no

160

00:07:34,500 --> 00:07:40,319

involvement with the skeptical movement

161

00:07:36,000 --> 00:07:42,839

and then number two we wanted it to be a

162

00:07:40,319 --> 00:07:45,149

great reference for people who are

163

00:07:42,839 --> 00:07:49,469

listening to the show who already are

164

00:07:45,149 --> 00:07:51,299

skeptics but want a you know to be walk

165

00:07:49,470 --> 00:07:52,620

through like this is everything a

166

00:07:51,300 --> 00:07:54,180

skeptic needs to know right that was

167

00:07:52,620 --> 00:07:56,040

kind of our approach to the book I

168

00:07:54,180 --> 00:07:58,410

really just say all right here's like I

169

00:07:56,040 --> 00:08:00,060

think it's the the first concept was

170

00:07:58,410 --> 00:08:01,050

like here's 50 things or a hundred

171

00:08:00,060 --> 00:08:02,879

things or whatever that every

172
00:08:01,050 --> 00:08:05,490
skeptic needs to know and that's kind of

173
00:08:02,879 --> 00:08:08,099
the meat of the book is that that part

174
00:08:05,490 --> 00:08:09,658
of it but then it we wanted to also have

175
00:08:08,098 --> 00:08:11,219
new stuff in there like I wanted to make

176
00:08:09,658 --> 00:08:13,168
sure there was some content in there

177
00:08:11,220 --> 00:08:15,300
that even if you've listened to every

178
00:08:13,168 --> 00:08:16,740
episode of the SGU there is new stuff in

179
00:08:15,300 --> 00:08:18,840
that you have never heard before that

180
00:08:16,740 --> 00:08:20,848
you will learn so that was sort of our

181
00:08:18,839 --> 00:08:22,288
goal for the book and I think that you

182
00:08:20,848 --> 00:08:23,759
know we accomplished that we did we can

183
00:08:22,288 --> 00:08:27,509
we've been working on this book for a

184
00:08:23,759 --> 00:08:28,919
year and a half with and it's great

185
00:08:27,509 --> 00:08:30,840
working with an editor I mean if you've

186
00:08:28,918 --> 00:08:33,360
ever worked with an editor before yes

187
00:08:30,839 --> 00:08:35,549
but yeah it's a really really ups the

188
00:08:33,360 --> 00:08:37,620
quality so we're very happy with the

189
00:08:35,549 --> 00:08:39,120
result oh it certainly does and I have

190
00:08:37,620 --> 00:08:41,250
worked with editors before I've written

191
00:08:39,120 --> 00:08:42,929
quite a few books for many many years

192
00:08:41,250 --> 00:08:44,759
ago of course yeah yeah and things

193
00:08:42,929 --> 00:08:47,609
occurred to the editor which would never

194
00:08:44,759 --> 00:08:48,809
occurred to you as the author yeah it's

195
00:08:47,610 --> 00:08:51,620
just good to have another set of eyes

196
00:08:48,809 --> 00:08:54,958
you know the the the most interesting

197
00:08:51,620 --> 00:08:57,089
feedback I got from the editor was I

198
00:08:54,958 --> 00:08:59,729
don't understand what this means right

199
00:08:57,089 --> 00:09:03,540
so I wrote something and to me it's

200

00:08:59,730 --> 00:09:05,370
perfectly clear you know and then look

201
00:09:03,539 --> 00:09:07,828
at like yeah okay I could see that like

202
00:09:05,370 --> 00:09:11,639
I'm you know I'm beust I have a a

203
00:09:07,828 --> 00:09:14,219
vocabulary of not only a scientist but

204
00:09:11,639 --> 00:09:16,439
of a skeptic and there are certain words

205
00:09:14,220 --> 00:09:18,990
that are just part of my vocabulary now

206
00:09:16,440 --> 00:09:22,140
and I've kind of lost a little bit of a

207
00:09:18,990 --> 00:09:24,600
sense of what a non skeptic somebody who

208
00:09:22,139 --> 00:09:27,169
isn't steeped in this you know what

209
00:09:24,600 --> 00:09:31,350
would be a word they would necessarily

210
00:09:27,169 --> 00:09:34,259
completely understand and so it was good

211
00:09:31,350 --> 00:09:35,940
to get that level of feedback like you

212
00:09:34,259 --> 00:09:38,610
need to explain this a little bit more

213
00:09:35,940 --> 00:09:40,620
detail you know you you can so that

214
00:09:38,610 --> 00:09:42,120

that's that I think really added a great

215

00:09:40,620 --> 00:09:45,089

layer to the book where I was like okay

216

00:09:42,120 --> 00:09:46,440

yeah okay I'll go back and reword this

217

00:09:45,089 --> 00:09:48,240

so that it makes sense to somebody who

218

00:09:46,440 --> 00:09:50,640

has never heard these concepts before

219

00:09:48,240 --> 00:09:52,289

it's a very good point and this point

220

00:09:50,639 --> 00:09:54,088

was really brought home to me a couple

221

00:09:52,289 --> 00:09:56,009

of years ago I was very lucky enough to

222

00:09:54,089 --> 00:09:59,279

see Alan Alda give a talk here in

223

00:09:56,009 --> 00:10:01,740

Australia and because he's very into

224

00:09:59,278 --> 00:10:03,899

science communication and the example he

225

00:10:01,740 --> 00:10:05,310

gave he asked for a volunteer to come up

226

00:10:03,899 --> 00:10:07,549

from the audience and he showed the

227

00:10:05,309 --> 00:10:10,109

volunteer a sheet of paper with some

228

00:10:07,549 --> 00:10:12,240

popular tunes and he said to the

229
00:10:10,110 --> 00:10:13,470
volunteer to tap out the tune and see

230
00:10:12,240 --> 00:10:14,730
how many people in the audience know

231
00:10:13,470 --> 00:10:17,460
which tune your tap

232
00:10:14,730 --> 00:10:19,230
and of course to the to the volunteer

233
00:10:17,460 --> 00:10:21,450
tapping out the tune it was obvious what

234
00:10:19,230 --> 00:10:23,730
tune they were tapping but nobody in the

235
00:10:21,450 --> 00:10:26,070
audience had a clue and I thought that

236
00:10:23,730 --> 00:10:30,180
was a very good lesson yeah it's true I

237
00:10:26,070 --> 00:10:32,730
mean yeah so and if you've ever written

238
00:10:30,179 --> 00:10:33,870
puzzles for other people or you know and

239
00:10:32,730 --> 00:10:35,909
I mean have you ever done that or if

240
00:10:33,870 --> 00:10:39,120
you've ever run any kind of role-playing

241
00:10:35,909 --> 00:10:41,519
game you realize that you have the whole

242
00:10:39,120 --> 00:10:42,240
story in your head things make perfect

243
00:10:41,519 --> 00:10:44,370
sense to you

244
00:10:42,240 --> 00:10:45,990
yeah and they may be completely opaque

245
00:10:44,370 --> 00:10:47,850
to somebody else they don't they don't

246
00:10:45,990 --> 00:10:50,190
have the background information that you

247
00:10:47,850 --> 00:10:51,990
have so in the context you know what

248
00:10:50,190 --> 00:10:53,790
everything means but to somebody who

249
00:10:51,990 --> 00:10:56,580
doesn't know the context they could be

250
00:10:53,789 --> 00:10:58,860
lost so that's that is a one of the

251
00:10:56,580 --> 00:11:03,030
challenges of science communication and

252
00:10:58,860 --> 00:11:05,600
I think why sometimes scientists are not

253
00:11:03,029 --> 00:11:09,539
the best communicator is because they

254
00:11:05,600 --> 00:11:13,529
might not know the distinction between

255
00:11:09,539 --> 00:11:15,089
their jargon and the vernacular and they

256
00:11:13,529 --> 00:11:17,519
might not know where the deficits are

257

00:11:15,090 --> 00:11:19,860
and in the concepts that the general

258
00:11:17,519 --> 00:11:21,480
public understands and we're and that's

259
00:11:19,860 --> 00:11:23,580
sort of the skill set of the science

260
00:11:21,480 --> 00:11:25,920
communicator that sort of bridge the gap

261
00:11:23,580 --> 00:11:28,740
right between highly technical

262
00:11:25,919 --> 00:11:31,860
information and general public

263
00:11:28,740 --> 00:11:33,629
understanding and we're always paying

264
00:11:31,860 --> 00:11:35,250
really close attention to that trying to

265
00:11:33,629 --> 00:11:36,960
be a check on each other and taking

266
00:11:35,250 --> 00:11:38,399
feedback from other people and this is

267
00:11:36,960 --> 00:11:42,389
just another way to do that

268
00:11:38,399 --> 00:11:44,370
and it really is a very difficult skill

269
00:11:42,389 --> 00:11:46,710
set you know people you some people may

270
00:11:44,370 --> 00:11:49,620
become easy to them but there is there's

271
00:11:46,710 --> 00:11:52,410

a lot of nuance to thinking about how to

272

00:11:49,620 --> 00:11:55,649
translate very complicated often

273

00:11:52,409 --> 00:11:59,159
mathematical concepts to everyday

274

00:11:55,649 --> 00:12:00,899
understanding I'm fascinated by that cuz

275

00:11:59,159 --> 00:12:03,299
I think it and in the end the research

276

00:12:00,899 --> 00:12:07,259
actually backs this up you understand a

277

00:12:03,299 --> 00:12:09,959
topic the best when you have to explain

278

00:12:07,259 --> 00:12:11,580
it to somebody else mmm you know that's

279

00:12:09,960 --> 00:12:14,639
a good way of looking at it and I think

280

00:12:11,580 --> 00:12:16,410
I'd have to agree it makes you rethink

281

00:12:14,639 --> 00:12:18,659
the topic when you're trying to explain

282

00:12:16,409 --> 00:12:20,939
it and and you and I and I imagine many

283

00:12:18,659 --> 00:12:22,319
people out there listening find

284

00:12:20,940 --> 00:12:24,450
themselves from time to time having to

285

00:12:22,320 --> 00:12:24,930
explain what skepticism is and how it

286

00:12:24,450 --> 00:12:27,290

works

287

00:12:24,929 --> 00:12:30,828

sure now the book is

288

00:12:27,289 --> 00:12:32,328

I'm casting an eye at Amazon because you

289

00:12:30,828 --> 00:12:33,799

can pre-order the book at the moment and

290

00:12:32,328 --> 00:12:36,169

focus on link to that in the show notes

291

00:12:33,799 --> 00:12:39,229

of course it's called the skeptics guide

292

00:12:36,169 --> 00:12:42,439

to the universe buy stock the Steven

293

00:12:39,230 --> 00:12:46,100

novella and The Skeptical rogues now how

294

00:12:42,440 --> 00:12:49,279

does that work what's the breakdown yes

295

00:12:46,100 --> 00:12:53,360

so I wrote the bulk of the book and I

296

00:12:49,278 --> 00:12:57,049

edited the entire book and then the you

297

00:12:53,360 --> 00:13:00,230

know Bob Jay Evan and Kara contributed

298

00:12:57,049 --> 00:13:03,019

chapters to the book they each have one

299

00:13:00,230 --> 00:13:06,500

chapter that is written in their voice

300
00:13:03,019 --> 00:13:09,828
which I added but I didn't really

301
00:13:06,500 --> 00:13:11,659
rewrite so it is written in their voice

302
00:13:09,828 --> 00:13:13,219
and that's the but there's one section

303
00:13:11,659 --> 00:13:15,139
of the book that's called adventures in

304
00:13:13,220 --> 00:13:16,970
skepticism where we each tell our own

305
00:13:15,139 --> 00:13:20,028
adventure like an example of some

306
00:13:16,970 --> 00:13:23,060
journey that we went on where we had to

307
00:13:20,028 --> 00:13:24,860
confront either you know some you know

308
00:13:23,059 --> 00:13:26,899
pseudoscience and our own beliefs or in

309
00:13:24,860 --> 00:13:29,750
other people's beliefs or whatever some

310
00:13:26,899 --> 00:13:31,789
challenge that we faced and that's where

311
00:13:29,750 --> 00:13:34,220
in each of us has one chapter there we

312
00:13:31,789 --> 00:13:36,110
even have a chapter by Perry which is a

313
00:13:34,220 --> 00:13:39,290
reworked article that he had written

314

00:13:36,110 --> 00:13:41,360
years ago for our newsletter and then

315
00:13:39,289 --> 00:13:42,588
but the rest of the book so even when

316
00:13:41,360 --> 00:13:44,209
they contributed the chapters I

317
00:13:42,589 --> 00:13:45,800
basically had to rewrite every chapter

318
00:13:44,208 --> 00:13:48,979
because we really needed to be in one

319
00:13:45,799 --> 00:13:51,139
coherent voice so that they provided all

320
00:13:48,980 --> 00:13:52,759
the you know the material a lot of the

321
00:13:51,139 --> 00:13:55,310
structure and the framework and then I

322
00:13:52,759 --> 00:13:56,899
sort of put it into the consistent voice

323
00:13:55,309 --> 00:13:59,869
of the book and then when the editor

324
00:13:56,899 --> 00:14:04,009
went over it it was like she applied and

325
00:13:59,870 --> 00:14:05,600
even you know more consistent filter you

326
00:14:04,009 --> 00:14:07,250
know she was like this all has to sound

327
00:14:05,600 --> 00:14:09,500
the same you know you have to have the

328
00:14:07,250 --> 00:14:11,688

same format you it really needs to be

329

00:14:09,500 --> 00:14:14,269

consistent the narrative tone of the

330

00:14:11,688 --> 00:14:17,778

book has to flow very easily and that's

331

00:14:14,269 --> 00:14:19,610

where the editor you know that's their

332

00:14:17,778 --> 00:14:21,828

job right that's their there their

333

00:14:19,610 --> 00:14:23,899

specialty is putting it all together

334

00:14:21,828 --> 00:14:26,149

because to some extent like we were

335

00:14:23,899 --> 00:14:27,708

writing chapters right I want to write a

336

00:14:26,149 --> 00:14:29,149

chapter on pareidolia right that's a

337

00:14:27,708 --> 00:14:31,489

concept everybody should know about it

338

00:14:29,149 --> 00:14:32,990

there's a lesson in there to how our

339

00:14:31,490 --> 00:14:36,769

brain works and how our thinking works

340

00:14:32,990 --> 00:14:38,568

and it's kind of a story unto itself but

341

00:14:36,769 --> 00:14:41,120

then the editor went back and said yes

342

00:14:38,568 --> 00:14:43,009

but okay that's fine but this has to fit

343
00:14:41,120 --> 00:14:45,230
to the broader narrative arc of the

344
00:14:43,009 --> 00:14:47,389
whole book and and so that's when it

345
00:14:45,230 --> 00:14:49,278
really started to come together what a

346
00:14:47,389 --> 00:14:53,629
fascinating process that must have been

347
00:14:49,278 --> 00:14:56,838
as absolutely and I'm pleased to know

348
00:14:53,629 --> 00:14:58,850
that you're even working on the next

349
00:14:56,839 --> 00:15:01,610
book in the series and hopefully it'll

350
00:14:58,850 --> 00:15:03,230
be a long-running series but also when

351
00:15:01,610 --> 00:15:05,600
you're not podcasting and writing books

352
00:15:03,230 --> 00:15:06,889
you you and some of the rogues at least

353
00:15:05,600 --> 00:15:10,519
they're doing a really fun project

354
00:15:06,889 --> 00:15:13,669
called alpha quadrant six which is a

355
00:15:10,519 --> 00:15:16,879
video series what can you tell me about

356
00:15:13,669 --> 00:15:19,969
that yeah that is our science fiction

357
00:15:16,879 --> 00:15:21,769
review show it started because Star Trek

358
00:15:19,970 --> 00:15:25,399
discovery the the latest Star Trek

359
00:15:21,769 --> 00:15:29,059
series was coming out and so I wanted to

360
00:15:25,399 --> 00:15:30,949
do a real-time review show where we

361
00:15:29,059 --> 00:15:32,750
review each episode immediately

362
00:15:30,950 --> 00:15:35,810
afterwards like so it's an after show

363
00:15:32,750 --> 00:15:37,278
right and and we did that we had a lot

364
00:15:35,809 --> 00:15:38,778
of fun with it and you know we started

365
00:15:37,278 --> 00:15:40,490
to build an audience there's okay we

366
00:15:38,778 --> 00:15:42,230
should just we wanted to see how it went

367
00:15:40,490 --> 00:15:45,500
before we commit it to anything beyond

368
00:15:42,230 --> 00:15:47,870
that but we are having fun with it and

369
00:15:45,500 --> 00:15:50,450
you know I think it's being well

370
00:15:47,870 --> 00:15:52,310
received so we decided to evolve it into

371

00:15:50,450 --> 00:15:54,470
just an all-purpose science fiction

372
00:15:52,309 --> 00:15:56,809
review show so yes we're gonna cover

373
00:15:54,470 --> 00:16:00,440
Star Trek Discovery as long as that airs

374
00:15:56,809 --> 00:16:03,079
but we already have a long list of other

375
00:16:00,440 --> 00:16:05,660
shows that we have planned and in the

376
00:16:03,080 --> 00:16:11,120
gap between the seasons were going to be

377
00:16:05,659 --> 00:16:14,269
cranking out some other reviews so for

378
00:16:11,120 --> 00:16:16,070
example we may do we've already done

379
00:16:14,269 --> 00:16:19,519
Star Wars by the way we did the review

380
00:16:16,070 --> 00:16:21,950
of the latest Star Wars movie and then

381
00:16:19,519 --> 00:16:26,600
so we will be doing new science fiction

382
00:16:21,950 --> 00:16:28,790
movies as they come out but also we will

383
00:16:26,600 --> 00:16:31,278
we're going to go do some classic movies

384
00:16:28,789 --> 00:16:33,289
we'll do some TV series like we've

385
00:16:31,278 --> 00:16:35,629

already had a lot of requests to do the

386

00:16:33,289 --> 00:16:37,278

black mirror yeah bill

387

00:16:35,629 --> 00:16:39,470

yes electric dream so I mean this is

388

00:16:37,278 --> 00:16:42,139

endless content out there yes and then

389

00:16:39,470 --> 00:16:43,339

with the real fun ones of them on ones

390

00:16:42,139 --> 00:16:45,549

I'm looking forward to work which we're

391

00:16:43,339 --> 00:16:48,980

working on right now we're going to do

392

00:16:45,549 --> 00:16:50,870

themed reviews like ask an interesting

393

00:16:48,980 --> 00:16:53,720

sci-fi question like how does

394

00:16:50,870 --> 00:16:54,710

faster-than-light travel work in science

395

00:16:53,720 --> 00:16:57,470

fiction

396

00:16:54,710 --> 00:17:00,620

and which of them are plausible which

397

00:16:57,470 --> 00:17:03,399

are not plausible does the math work out

398

00:17:00,620 --> 00:17:06,079

you know and then like doing sort of a

399

00:17:03,399 --> 00:17:07,009

science of science fiction kind of stuff

400
00:17:06,079 --> 00:17:08,869
with those kind of things how do

401
00:17:07,009 --> 00:17:10,459
blasters work what's what are the

402
00:17:08,869 --> 00:17:12,109
energies involved you know what would

403
00:17:10,459 --> 00:17:15,230
really be required to make this happen

404
00:17:12,109 --> 00:17:17,509
etc OOP so we'll have a lot of fun with

405
00:17:15,230 --> 00:17:20,059
it that way I mean I think those are

406
00:17:17,509 --> 00:17:21,619
always I think our most popular segments

407
00:17:20,059 --> 00:17:23,779
is when we do the science of science

408
00:17:21,619 --> 00:17:28,279
fiction because that's I think what we

409
00:17:23,779 --> 00:17:30,049
have that's that's you know in our sweet

410
00:17:28,279 --> 00:17:31,430
spot to add to it causally obviously

411
00:17:30,049 --> 00:17:34,669
there's a ton of people out there doing

412
00:17:31,430 --> 00:17:36,500
science fiction review and there's a lot

413
00:17:34,670 --> 00:17:39,410
of science fiction urns out there it's

414
00:17:36,500 --> 00:17:41,720
very popular but you know we where we

415
00:17:39,410 --> 00:17:43,880
are skeptics you know we're skeptics and

416
00:17:41,720 --> 00:17:45,860
science enthusiasts reviewing science

417
00:17:43,880 --> 00:17:49,010
fiction so we're gonna try to really

418
00:17:45,859 --> 00:17:50,569
maximize that angle of it well I as you

419
00:17:49,009 --> 00:17:53,990
say there's endless content out there

420
00:17:50,569 --> 00:17:55,879
and there really is now endless content

421
00:17:53,990 --> 00:17:58,789
out there I noticed the platforms like

422
00:17:55,880 --> 00:18:00,530
Netflix seem to be generating in endless

423
00:17:58,789 --> 00:18:02,629
things and I quite like these series you

424
00:18:00,529 --> 00:18:04,879
have electric dreams I was very

425
00:18:02,630 --> 00:18:06,680
impressed with that one right yeah yeah

426
00:18:04,880 --> 00:18:08,750
there's did right with the the cable

427
00:18:06,680 --> 00:18:10,519
companies now producing the original a

428

00:18:08,750 --> 00:18:12,970
lot of original content I mean there's

429
00:18:10,519 --> 00:18:16,069
so much out there it's altered carbon

430
00:18:12,970 --> 00:18:17,870
and then I mean and then really good too

431
00:18:16,069 --> 00:18:20,210
there's really good science fiction on

432
00:18:17,869 --> 00:18:22,879
TV now you know it really is a golden

433
00:18:20,210 --> 00:18:25,120
age just looking back over the course of

434
00:18:22,880 --> 00:18:27,680
my life like the last 50 years there's

435
00:18:25,119 --> 00:18:29,809
definitely been some dry spells there's

436
00:18:27,680 --> 00:18:32,150
been the occasional you know really good

437
00:18:29,809 --> 00:18:34,519
series but now it's like an

438
00:18:32,150 --> 00:18:35,870
embarrassment of riches it really is out

439
00:18:34,519 --> 00:18:37,579
there yeah it really is

440
00:18:35,869 --> 00:18:39,019
well though I must say at the moment I'm

441
00:18:37,579 --> 00:18:42,309
getting a kick out of rewatching my

442
00:18:39,019 --> 00:18:44,299

favorite Martian so there you go yeah

443

00:18:42,309 --> 00:18:46,149

maybe we'll review that one we'll have

444

00:18:44,299 --> 00:18:48,440

you on the show to review that one oh I

445

00:18:46,150 --> 00:18:50,480

love it it just brings back the most

446

00:18:48,440 --> 00:18:52,910

wonderful memories folks the book is

447

00:18:50,480 --> 00:18:55,309

called the skeptics guide to the

448

00:18:52,910 --> 00:18:58,220

universe no surprise there by dr. Steven

449

00:18:55,309 --> 00:19:00,200

novella and The Skeptical rogues again

450

00:18:58,220 --> 00:19:02,329

we'll link to that in the show notes you

451

00:19:00,200 --> 00:19:05,150

can you can pre-order that now Steve I

452

00:19:02,329 --> 00:19:07,429

think yeah you could pre-order it now we

453

00:19:05,150 --> 00:19:08,419

are encouraging our listeners to

454

00:19:07,430 --> 00:19:10,909

pre-order because

455

00:19:08,419 --> 00:19:13,340

that will help launch the book you know

456

00:19:10,909 --> 00:19:15,859

that the pre-orders count in the first

457
00:19:13,339 --> 00:19:17,298
week of sales so and the way that it's

458
00:19:15,858 --> 00:19:19,759
really interesting what we discovered

459
00:19:17,298 --> 00:19:22,278
also about the the publishing industry

460
00:19:19,759 --> 00:19:25,878
is interesting because you know the

461
00:19:22,278 --> 00:19:28,519
books are the the book market has become

462
00:19:25,878 --> 00:19:31,519
a lot tighter in with the you know in

463
00:19:28,519 --> 00:19:33,499
the last couple of decades with you know

464
00:19:31,519 --> 00:19:35,089
the with social media and Internet and

465
00:19:33,499 --> 00:19:36,649
everything in digital content people

466
00:19:35,089 --> 00:19:38,358
aren't buying as many books so the

467
00:19:36,648 --> 00:19:40,219
margins are a lot thinner so when the

468
00:19:38,358 --> 00:19:42,499
but the publishers do is they really

469
00:19:40,220 --> 00:19:44,929
only put they're promoting resources

470
00:19:42,499 --> 00:19:47,899
behind books that do well in the first

471
00:19:44,929 --> 00:19:51,590
week or two and so that's that's the

472
00:19:47,898 --> 00:19:53,508
whole game so we really are hoping that

473
00:19:51,589 --> 00:19:55,308
people who want the book are gonna

474
00:19:53,509 --> 00:19:58,368
preorder it so that we get a big pulse

475
00:19:55,308 --> 00:20:00,888
on sales and that will help launch the

476
00:19:58,368 --> 00:20:05,089
book and hopefully you know not just

477
00:20:00,888 --> 00:20:08,898
this book but a whole series of books so

478
00:20:05,089 --> 00:20:10,608
and I do think that you know if you like

479
00:20:08,898 --> 00:20:12,589
listening to this show if you're you

480
00:20:10,608 --> 00:20:13,699
know a skeptic if you have people in

481
00:20:12,589 --> 00:20:16,069
your life that you want to make more

482
00:20:13,700 --> 00:20:19,429
skeptical this this book is designed to

483
00:20:16,069 --> 00:20:21,189
be the perfect intro to that it sounds

484
00:20:19,429 --> 00:20:23,899
just the ticket Steve I'll be certainly

485

00:20:21,190 --> 00:20:26,720
pre-ordering my copy to exist again

486
00:20:23,898 --> 00:20:29,028
folks once again folks I'll link to that

487
00:20:26,720 --> 00:20:31,909
on the show notes and dr. Steven novella

488
00:20:29,028 --> 00:20:33,259
all the way there on the other side of

489
00:20:31,909 --> 00:20:35,269
the planet where you're just starting

490
00:20:33,259 --> 00:20:36,680
your day's work thank you very much

491
00:20:35,269 --> 00:20:40,838
thank you Richard

492
00:20:36,680 --> 00:20:40,839
[Music]

493
00:20:51,240 --> 00:20:56,798
greetings listeners it's me captain

494
00:20:54,099 --> 00:20:59,379
disillusion on my youtube channel called

495
00:20:56,798 --> 00:21:01,658
captain disillusion I got the

496
00:20:59,380 --> 00:21:03,700
disillusion analyzed viral videos of the

497
00:21:01,659 --> 00:21:06,220
strange and unbelievable I explained how

498
00:21:03,700 --> 00:21:08,200
interframe video compression 3d motion

499
00:21:06,220 --> 00:21:10,750

tracking and stock V effects elements

500

00:21:08,200 --> 00:21:12,970

prove that Justin Bieber is not a secret

501

00:21:10,750 --> 00:21:14,798

reptilian alien that those videos of

502

00:21:12,970 --> 00:21:16,808

ghost cars are just unintentional

503

00:21:14,798 --> 00:21:18,548

optical illusions and that lightning did

504

00:21:16,808 --> 00:21:20,379

not strike a few feet away from a girl

505

00:21:18,548 --> 00:21:23,109

on a beach as we saw in the news I'm

506

00:21:20,380 --> 00:21:26,380

real fun at parties my best friend is a

507

00:21:23,109 --> 00:21:28,240

lens flare dimmer switch disillusion I

508

00:21:26,380 --> 00:21:29,500

dunno other people sometimes they even

509

00:21:28,240 --> 00:21:31,870

show up in my videos

510

00:21:29,500 --> 00:21:34,269

people like skepticisms grandpa James

511

00:21:31,869 --> 00:21:36,339

Randi serve de Soleil Acrobat Erica

512

00:21:34,269 --> 00:21:38,500

Lin's weight loss enthusiast Penn

513

00:21:36,339 --> 00:21:40,599

Jillette and the actual Beekman from

514
00:21:38,500 --> 00:21:42,669
Beakman's world I hope you'll check out

515
00:21:40,599 --> 00:21:44,798
my adventures interact with me in a

516
00:21:42,669 --> 00:21:47,409
platonic way and even consider becoming

517
00:21:44,798 --> 00:21:50,200
a patron of my work you can do all that

518
00:21:47,409 --> 00:21:53,580
and more on YouTube or at Captain

519
00:21:50,200 --> 00:21:53,580
disillusion calm

520
00:21:54,789 --> 00:22:02,500
his main art spooky action at the

521
00:21:59,990 --> 00:22:02,500
distance

522
00:22:03,710 --> 00:22:08,429
may not here to introduce you to round

523
00:22:06,179 --> 00:22:11,038
tube the trivia quiz we held with Sydney

524
00:22:08,429 --> 00:22:13,409
skeptics in the pub are you excited

525
00:22:11,038 --> 00:22:17,179
20 more questions coming away how did

526
00:22:13,409 --> 00:22:19,620
you go last week ah I heard you a slack

527
00:22:17,179 --> 00:22:21,390
anyway we had people riding in to the

528
00:22:19,619 --> 00:22:24,269
sceptic zone with their scores no one

529
00:22:21,390 --> 00:22:26,460
said they got 20 out of 20 no one said

530
00:22:24,269 --> 00:22:29,849
they got 20 out of 20 but if you were

531
00:22:26,460 --> 00:22:32,659
over 15 out of 20 not bad you would be

532
00:22:29,849 --> 00:22:35,668
considered more than slightly skeptical

533
00:22:32,659 --> 00:22:40,159
this week your trivia MOOC I'm sorry

534
00:22:35,669 --> 00:22:40,159
that's your trivia emcee is Lara BAM

535
00:22:41,298 --> 00:22:48,329
in which city did the bird skeptics in

536
00:22:44,490 --> 00:22:50,609
the pub event take place in which city

537
00:22:48,329 --> 00:22:56,519
to the first skeptics in the pub events

538
00:22:50,609 --> 00:22:59,158
take place question two silence thing

539
00:22:56,519 --> 00:23:01,349
wrote a book about the mathematics used

540
00:22:59,159 --> 00:23:05,820
in which popular love long-running TV

541
00:23:01,349 --> 00:23:08,189
show question three

542

00:23:05,819 --> 00:23:10,739
I'm going to give you multiple choice on

543
00:23:08,190 --> 00:23:13,710
this at the end which popular Australian

544
00:23:10,739 --> 00:23:15,960
magazine publish a fake Nostradamus

545
00:23:13,710 --> 00:23:18,899
portraying on its back to my work at

546
00:23:15,960 --> 00:23:21,960
these following the 9/11 attacks was it

547
00:23:18,898 --> 00:23:23,459
new idea perfumers Women's Day woman

548
00:23:21,960 --> 00:23:26,278
that would lead but all the New Age

549
00:23:23,460 --> 00:23:29,970
monthly run through the board game by

550
00:23:26,278 --> 00:23:37,739
the new idea Women's Day Women's Weekly

551
00:23:29,970 --> 00:23:42,389
or the New Age monthly question for what

552
00:23:37,739 --> 00:23:47,399
do the initials si si si ope stand for

553
00:23:42,388 --> 00:23:51,209
what do the initials si si si si si o P

554
00:23:47,398 --> 00:23:57,898
stand for Sox icon

555
00:23:51,210 --> 00:23:59,429
Cyclops or even question 5 what score do

556
00:23:57,898 --> 00:24:02,868

at least some of the Australian cricket

557

00:23:59,429 --> 00:24:02,869

team think is bad luck

558

00:24:03,528 --> 00:24:11,579

question 6 which two animals we use to

559

00:24:08,909 --> 00:24:14,909

create the Fiji mermaid a hoax displayed

560

00:24:11,579 --> 00:24:16,739

by PT Barnum so which two animals is to

561

00:24:14,909 --> 00:24:20,028

create the Fiji mermaid you need both of

562

00:24:16,739 --> 00:24:20,028

them to get the point

563

00:24:21,650 --> 00:24:27,509

questions save it and you'll get a point

564

00:24:25,019 --> 00:24:30,569

for each of the ones which two countries

565

00:24:27,509 --> 00:24:33,390

are most associated with this scam of

566

00:24:30,569 --> 00:24:35,309

psychic surgery which two countries are

567

00:24:33,390 --> 00:24:39,509

most associated with the scanner of

568

00:24:35,309 --> 00:24:42,779

psychic surgery I think it's on question

569

00:24:39,509 --> 00:24:46,369

eight campbelltown just outside Sydney

570

00:24:42,779 --> 00:24:49,319

holds an annual festival of whose ghost

571
00:24:46,369 --> 00:24:56,729
sample town just outside Sydney holds an

572
00:24:49,319 --> 00:24:59,750
annual festival of whose ghost I can

573
00:24:56,730 --> 00:24:59,750
hear the ghost whisperer

574
00:25:07,039 --> 00:25:11,619
[Music]

575
00:25:08,680 --> 00:25:14,470
the town of Roswell the town of Roswell

576
00:25:11,619 --> 00:25:18,209
favorite stories of crashed UFOs lies

577
00:25:14,470 --> 00:25:18,210
within which states in the USA

578
00:25:20,298 --> 00:25:28,759
questions provided that the moon

579
00:25:24,019 --> 00:25:30,979
landings were not faith controversy when

580
00:25:28,759 --> 00:25:33,649
the last option how many people have

581
00:25:30,979 --> 00:25:39,499
walked on the moon how many people have

582
00:25:33,648 --> 00:25:42,348
walked on the moon question 11 the

583
00:25:39,499 --> 00:25:44,479
ideomotor effect or action is most

584
00:25:42,348 --> 00:25:47,888
commonly associated with which a

585
00:25:44,479 --> 00:25:50,808
mysterious plane so the ideomotor effect

586
00:25:47,888 --> 00:26:00,319
is most that mostly associated with

587
00:25:50,808 --> 00:26:04,658
which and steers claim question 12 who

588
00:26:00,319 --> 00:26:06,648
is credited with creating homeopathy

589
00:26:04,659 --> 00:26:10,730
there is credited with creating

590
00:26:06,648 --> 00:26:15,298
homeopathy Britain

591
00:26:10,730 --> 00:26:17,909
question 13 the latest Korean skeptic

592
00:26:15,298 --> 00:26:20,668
Barry Williams was in which branch of

593
00:26:17,909 --> 00:26:22,740
the Israeli military the lates

594
00:26:20,669 --> 00:26:26,538
Australian skeptic Barry Williams was in

595
00:26:22,740 --> 00:26:26,538
which branch of the Australian military

596
00:26:27,200 --> 00:26:33,808
question 14 another question about James

597
00:26:30,450 --> 00:26:36,450
Randi James Randi often wears a pin on

598
00:26:33,808 --> 00:26:39,269
his lapel of a mythical flying animal

599

00:26:36,450 --> 00:26:41,519
what animal is it like so James Randi

600
00:26:39,269 --> 00:26:44,720
optimiser pin on here the palace of a

601
00:26:41,519 --> 00:26:47,870
mythical flying animal what animal is it

602
00:26:44,720 --> 00:26:50,808
question 15

603
00:26:47,869 --> 00:26:53,479
an easy question 15 what is the name of

604
00:26:50,808 --> 00:26:57,528
the lunar base the landing sites of

605
00:26:53,480 --> 00:27:00,558
Apollo 11 in 1969 so what it's the name

606
00:26:57,528 --> 00:27:09,829
of the lunar base the landing sites of

607
00:27:00,558 --> 00:27:13,460
Apollo 11 in 69 question 16 what is the

608
00:27:09,829 --> 00:27:16,329
name of the 2013 film based around an

609
00:27:13,460 --> 00:27:19,880
edge and Lorraine Warren investigation

610
00:27:16,329 --> 00:27:21,668
what is the name of the 2013 film based

611
00:27:19,880 --> 00:27:31,880
around an egg and Lorraine Warren

612
00:27:21,669 --> 00:27:34,240
investigation question 17 western

613
00:27:31,880 --> 00:27:36,649

astrology which of the three earth

614

00:27:34,240 --> 00:27:38,298

zodiac signs and you'll get a point for

615

00:27:36,648 --> 00:27:40,519

each but you can only write down three

616

00:27:38,298 --> 00:27:44,500

so what's the astrology which are the

617

00:27:40,519 --> 00:27:44,500

three earth whose only iodine

618

00:27:45,259 --> 00:27:52,908

[Music]

619

00:27:48,200 --> 00:27:56,778

question 18 movie what movie is credited

620

00:27:52,909 --> 00:27:59,359

for the UFO craze at the late 1970s what

621

00:27:56,778 --> 00:28:07,398

movie is credited with the UFO craze of

622

00:27:59,358 --> 00:28:10,638

the late 1970s question 19 I apologize

623

00:28:07,398 --> 00:28:17,028

this triskaidekaphobia is the fear of

624

00:28:10,638 --> 00:28:20,538

what the trip triskaidekaphobia question

625

00:28:17,028 --> 00:28:22,878

20 the final question around - what is

626

00:28:20,538 --> 00:28:24,829

the name of the mysterious lights that

627

00:28:22,878 --> 00:28:27,738

are sometimes reported in east railey

628
00:28:24,829 --> 00:28:30,189
and out back the name of the mysterious

629
00:28:27,739 --> 00:28:30,190
lights

630
00:28:32,430 --> 00:28:39,100
[Music]

631
00:28:35,000 --> 00:28:39,099
[Laughter]

632
00:28:41,430 --> 00:28:45,880
that was round two

633
00:28:43,450 --> 00:28:51,220
how did you think you went but papers of

634
00:28:45,880 --> 00:28:53,590
the pub being passed around now neck

635
00:28:51,220 --> 00:28:55,539
beard neck beard neck beard they're

636
00:28:53,589 --> 00:29:00,029
being passed around now for the marking

637
00:28:55,539 --> 00:29:10,750
and here are the answers right marking

638
00:29:00,029 --> 00:29:19,420
quickly London yeah the sign of the same

639
00:29:10,750 --> 00:29:21,160
book was based on question 3 the faith

640
00:29:19,420 --> 00:29:22,690
Nostradamus core training that it

641
00:29:21,160 --> 00:29:25,470
published with the magazine was called

642
00:29:22,690 --> 00:29:25,470
new idea

643
00:29:26,390 --> 00:29:35,580
no a new idea now are the impression for

644
00:29:31,529 --> 00:29:38,609
the FICO initials is the committee for

645
00:29:35,579 --> 00:29:40,789
the scientific investigation of claims

646
00:29:38,609 --> 00:29:43,609
of the paranormal

647
00:29:40,789 --> 00:29:46,700
I'll just say a word cite the committee

648
00:29:43,609 --> 00:29:50,509
for the scientific investigation of

649
00:29:46,700 --> 00:29:50,509
claims of the paranormal

650
00:29:52,450 --> 00:30:08,610
question 5 the Australian cricket team

651
00:29:55,769 --> 00:30:08,609
is 8,700 makes as much sense as cricket

652
00:30:08,849 --> 00:30:13,569
so to get the point Congressional things

653
00:30:11,470 --> 00:30:15,670
you need to have both the animals this

654
00:30:13,569 --> 00:30:25,480
is the Fiji mermaid it was a monkey and

655
00:30:15,670 --> 00:30:27,550
a fish I questions second the two

656

00:30:25,480 --> 00:30:29,620
countries associated with psychic

657
00:30:27,549 --> 00:30:31,779
surgery and you get point for each one

658
00:30:29,619 --> 00:30:34,299
of these the Philippines is one and

659
00:30:31,779 --> 00:30:37,420
Brazil is the other one

660
00:30:34,299 --> 00:30:37,419
[Music]

661
00:30:37,710 --> 00:30:45,240
question eight it was fish's ghost which

662
00:30:42,220 --> 00:30:45,240
I think everybody said out loud

663
00:30:48,900 --> 00:30:54,120
question nine Rothwell is in New Mexico

664
00:30:52,890 --> 00:30:58,600
[Music]

665
00:30:54,119 --> 00:31:02,309
I'm gonna come to Mercer questions head

666
00:30:58,599 --> 00:31:04,899
of twelve people on the route 12

667
00:31:02,309 --> 00:31:07,950
[Music]

668
00:31:04,900 --> 00:31:10,480
question 13 the ideomotor effect

669
00:31:07,950 --> 00:31:16,960
disease-associated mostly with divining

670
00:31:10,480 --> 00:31:19,299

or dowsing question 12 and Lee feeding

671

00:31:16,960 --> 00:31:21,819

you the spelling of this one the person

672

00:31:19,299 --> 00:31:24,180

that creates homeopathy is Samuel

673

00:31:21,819 --> 00:31:24,179

Hahnemann

674

00:31:26,779 --> 00:31:36,129

question 13 Barry Williams was in the

675

00:31:29,630 --> 00:31:40,190

Royal Australian ankles question 14

676

00:31:36,130 --> 00:31:41,990

James Ramsay was a TSS but will accept

677

00:31:40,190 --> 00:31:54,309

dissipate because we said the black box

678

00:31:41,990 --> 00:31:54,309

so paid or no no no cake no Pegasus

679

00:31:59,259 --> 00:32:09,589

doping anyway the database is called

680

00:32:04,160 --> 00:32:11,960

tranquility base tranquility base you

681

00:32:09,589 --> 00:32:15,579

the questions may see the film based

682

00:32:11,960 --> 00:32:16,789

around engineering Warren is the conger

683

00:32:15,579 --> 00:32:19,909

Iraqi

684

00:32:16,789 --> 00:32:19,909

[Music]

685
00:32:21,680 --> 00:32:25,940
question 17 and they can have a point

686
00:32:24,440 --> 00:32:27,650
for each one of these they get right

687
00:32:25,940 --> 00:32:29,690
provide them only written down three

688
00:32:27,650 --> 00:32:34,720
this is the astrology signs the earth

689
00:32:29,690 --> 00:32:34,720
signs are Taurus Virgo

690
00:32:36,910 --> 00:32:48,019
that's three marks if they also write

691
00:32:39,410 --> 00:32:50,810
one for each question 18 question 18 UFO

692
00:32:48,019 --> 00:32:55,879
phrase is credited to quasi counters of

693
00:32:50,809 --> 00:32:59,319
the Third Kind to question 1915 upper

694
00:32:55,880 --> 00:33:04,070
phobia is a fear of the number 13

695
00:32:59,319 --> 00:33:09,069
well question 20 the mysterious lights

696
00:33:04,069 --> 00:33:09,069
are called the million lights and I am

697
00:33:12,490 --> 00:33:14,859
yeah I'm gonna need a mortgage

698
00:33:13,450 --> 00:33:16,720
background as well so if you can add

699
00:33:14,859 --> 00:33:22,259
that up for us please put this cool

700
00:33:16,720 --> 00:33:25,750
somewhat table come round and flat get

701
00:33:22,259 --> 00:33:31,140
well takes just gonna come on up really

702
00:33:25,750 --> 00:33:34,069
should take photographs

703
00:33:31,140 --> 00:33:36,259
number one is Eureka

704
00:33:34,069 --> 00:33:50,720
[Music]

705
00:33:36,259 --> 00:33:54,140
number two they don't know - I didn't

706
00:33:50,720 --> 00:33:56,890
know what I was doing three wisemen

707
00:33:54,140 --> 00:34:00,380
looks biggest paintbrush for school

708
00:33:56,890 --> 00:34:06,040
Richard Wiseman number four is Sylvia

709
00:34:00,380 --> 00:34:07,250
Browne number five is Cara Santa Maria

710
00:34:06,039 --> 00:34:12,168
okay

711
00:34:07,250 --> 00:34:14,199
number six is Barry Williams seven is

712
00:34:12,168 --> 00:34:19,398
Johnny whoops

713

00:34:14,199 --> 00:34:24,769
eight is Eugenie Scott and nine is susan

714
00:34:19,398 --> 00:34:27,108
gerbic that was that second of three

715
00:34:24,769 --> 00:34:30,050
trivia rounds next week twenty more

716
00:34:27,108 --> 00:34:35,239
skeptical questions read out by me until

717
00:34:30,050 --> 00:34:38,470
then this is Maynard ha ha is a group

718
00:34:35,239 --> 00:34:38,469
from Scandinavia

719
00:34:41,920 --> 00:34:44,979
[Music]

720
00:34:55,389 --> 00:35:00,470
hello this is Sharon Hill creator of

721
00:34:57,889 --> 00:35:03,019
doubtful news.com and the 15 credibility

722
00:35:00,469 --> 00:35:05,269
street podcast I have a new book for

723
00:35:03,019 --> 00:35:07,369
McFarland publishing called scientific

724
00:35:05,269 --> 00:35:10,159
Americans the culture of amateur

725
00:35:07,369 --> 00:35:12,769
paranormal researchers scientific

726
00:35:10,159 --> 00:35:15,409
means attempting to be scientific and do

727
00:35:12,769 --> 00:35:17,900

science but falling short this book is

728

00:35:15,409 --> 00:35:19,940

the first full examination of the rise

729

00:35:17,900 --> 00:35:22,250

of amateur research and investigation

730

00:35:19,940 --> 00:35:24,440

groups in America and how they do or

731

00:35:22,250 --> 00:35:27,110

don't use science to investigate ghosts

732

00:35:24,440 --> 00:35:29,750

UFOs and cryptids like Bigfoot and Lake

733

00:35:27,110 --> 00:35:31,849

Monsters I place these thousands of

734

00:35:29,750 --> 00:35:34,429

paranormal explorers into the historical

735

00:35:31,849 --> 00:35:36,559

context of their subject areas chart the

736

00:35:34,429 --> 00:35:38,539

influence of paranormal themed media and

737

00:35:36,559 --> 00:35:40,940

the Internet and examine what it means

738

00:35:38,539 --> 00:35:43,550

to do science and how amateurs can

739

00:35:40,940 --> 00:35:45,440

contribute paranormal believers skeptics

740

00:35:43,550 --> 00:35:48,200

and persons of all opinions in between

741

00:35:45,440 --> 00:35:50,420

will find scientific Americans to be a

742
00:35:48,199 --> 00:35:52,759
unique view of the modern relationship

743
00:35:50,420 --> 00:35:54,619
between science and society as well as

744
00:35:52,760 --> 00:35:57,230
our engagement with paranormal themes

745
00:35:54,619 --> 00:35:59,179
and popular culture purchase the book

746
00:35:57,230 --> 00:36:01,519
through your favorite bookseller or an

747
00:35:59,179 --> 00:36:06,489
Amazon Kindle version for more info

748
00:36:01,519 --> 00:36:06,489
visit my website at sharing a Hill calm

749
00:36:13,530 --> 00:36:29,740
[Music]

750
00:36:26,880 --> 00:36:32,530
and joining me now all the way from Ohio

751
00:36:29,739 --> 00:36:33,609
State University it's professor Glenn

752
00:36:32,530 --> 00:36:35,050
Sir Persky

753
00:36:33,610 --> 00:36:38,349
it's a pleasure to be on thank you so

754
00:36:35,050 --> 00:36:40,510
much for inviting now thank you very

755
00:36:38,349 --> 00:36:42,969
much in fact they're you contacted the

756
00:36:40,510 --> 00:36:44,820
skeptical zone a little while ago to let

757
00:36:42,969 --> 00:36:47,199
us know about a book you've written

758
00:36:44,820 --> 00:36:49,450
before we get to that book can you tell

759
00:36:47,199 --> 00:36:54,279
us a little bit about your your general

760
00:36:49,449 --> 00:36:57,069
background sure so my focus professor an

761
00:36:54,280 --> 00:36:59,950
activist is in truth seeking rational

762
00:36:57,070 --> 00:37:02,260
thinking and wise decision making that

763
00:36:59,949 --> 00:37:04,539
means fighting this information and

764
00:37:02,260 --> 00:37:07,030
incivility that's plaguing both the

765
00:37:04,539 --> 00:37:10,239
United States and your corner of the

766
00:37:07,030 --> 00:37:12,640
world New Zealand Australia and actually

767
00:37:10,239 --> 00:37:16,329
everywhere in democracies right now due

768
00:37:12,639 --> 00:37:19,150
to the fact that our information

769
00:37:16,329 --> 00:37:21,190
ecosystem is broken with the rise of

770

00:37:19,150 --> 00:37:23,050
social media and digital media so that's

771
00:37:21,190 --> 00:37:26,079
the focus of my activism and my research

772
00:37:23,050 --> 00:37:29,100
and I've noticed that you've appeared on

773
00:37:26,079 --> 00:37:32,529
many different news and television

774
00:37:29,099 --> 00:37:36,269
programs including here in Australia

775
00:37:32,530 --> 00:37:40,269
where you are appeared as a commentator

776
00:37:36,269 --> 00:37:42,099
mainly on political things is that is

777
00:37:40,269 --> 00:37:47,019
that been your focus in the past mainly

778
00:37:42,099 --> 00:37:48,670
politics no we focused so I run the

779
00:37:47,019 --> 00:37:51,250
nonprofit intentional insights at

780
00:37:48,670 --> 00:37:53,530
intentional insights org and we focus in

781
00:37:51,250 --> 00:37:55,780
a variety of areas of Troop seeking and

782
00:37:53,530 --> 00:37:57,850
rational thinking focus more on the

783
00:37:55,780 --> 00:38:00,040
skeptical community earlier and figuring

784
00:37:57,849 --> 00:38:02,259

out how to talk to non skeptics how to

785

00:38:00,039 --> 00:38:05,409

communicate effectively but with the

786

00:38:02,260 --> 00:38:08,050

rise of fake news and post truth

787

00:38:05,409 --> 00:38:10,420

politics in the last couple of years

788

00:38:08,050 --> 00:38:12,070

where that problem has become especially

789

00:38:10,420 --> 00:38:13,960

prevalent we focused most of our

790

00:38:12,070 --> 00:38:16,809

attention on politics because we see

791

00:38:13,960 --> 00:38:18,760

that as the area in most need of truth

792

00:38:16,809 --> 00:38:22,059

seeking and rational thinking and the

793

00:38:18,760 --> 00:38:23,380

most danger for our society from a lack

794

00:38:22,059 --> 00:38:24,400

of truth seeking in the rational

795

00:38:23,380 --> 00:38:26,318

thinking comes from

796

00:38:24,400 --> 00:38:29,318

domaine so that's what led us to start

797

00:38:26,318 --> 00:38:31,088

the pro truth pledge project at pro

798

00:38:29,318 --> 00:38:33,338

truth pledge that org which is a

799

00:38:31,088 --> 00:38:36,400

behavioral science informed tool that

800

00:38:33,338 --> 00:38:39,308

combines crowdsourcing and research to

801

00:38:36,400 --> 00:38:41,410

address misinformation and incivility in

802

00:38:39,309 --> 00:38:43,960

democracies around the world including

803

00:38:41,409 --> 00:38:46,298

Australia well I don't think you'd have

804

00:38:43,960 --> 00:38:49,210

any arguments of anybody about truth in

805

00:38:46,298 --> 00:38:53,259

politics it seems to be a very very

806

00:38:49,210 --> 00:38:56,500

fluid subject or a very fluid idea in

807

00:38:53,260 --> 00:38:58,299

politics what what the truth is and we

808

00:38:56,500 --> 00:39:01,960

also note that especially with

809

00:38:58,298 --> 00:39:04,659

politicians they sometimes are bound by

810

00:39:01,960 --> 00:39:06,760

deals made and pledges they know they

811

00:39:04,659 --> 00:39:09,009

can't keep and then then again the

812

00:39:06,760 --> 00:39:10,990

population sort of understands that yes

813
00:39:09,010 --> 00:39:13,200
well it's of only a political promise so

814
00:39:10,989 --> 00:39:15,068
maybe it's not the truth after all

815
00:39:13,199 --> 00:39:17,169
Australia is actually quite a big

816
00:39:15,068 --> 00:39:19,869
problem around the world including in

817
00:39:17,170 --> 00:39:22,329
Australia so the post the pro truth

818
00:39:19,869 --> 00:39:23,950
pledge is associated with the post truth

819
00:39:22,329 --> 00:39:27,430
initiative at the University of Sydney

820
00:39:23,949 --> 00:39:29,828
which studies questions around how

821
00:39:27,429 --> 00:39:32,440
approach of post true politics the

822
00:39:29,829 --> 00:39:34,568
problems around that and there are a

823
00:39:32,440 --> 00:39:36,250
number of people who have accused a

824
00:39:34,568 --> 00:39:39,038
number of government officials in

825
00:39:36,250 --> 00:39:42,130
Australia of engaging in misinformation

826
00:39:39,039 --> 00:39:44,859
and incivility so there are politicians

827

00:39:42,130 --> 00:39:47,170
who practice these things in Australia

828
00:39:44,858 --> 00:39:49,328
as elsewhere in other democracies and

829
00:39:47,170 --> 00:39:52,358
the point of the pro truth pledge is to

830
00:39:49,329 --> 00:39:54,400
gather together all the people who care

831
00:39:52,358 --> 00:39:57,818
about fighting misinformation and

832
00:39:54,400 --> 00:40:01,539
incivility and unite them in a combined

833
00:39:57,818 --> 00:40:03,489
effort to address politicians media

834
00:40:01,539 --> 00:40:05,950
figures and others who spread

835
00:40:03,489 --> 00:40:07,959
misinformation and civility because if

836
00:40:05,949 --> 00:40:09,879
you can unite together all the people

837
00:40:07,960 --> 00:40:11,710
who care about truth in facts then

838
00:40:09,880 --> 00:40:13,599
they're not separate and then their

839
00:40:11,710 --> 00:40:15,760
voice can be really hard and made

840
00:40:13,599 --> 00:40:17,500
significant and impactful and that's

841
00:40:15,760 --> 00:40:20,260

what the pro truth pledge at pro truth

842

00:40:17,500 --> 00:40:22,838

pledge at org is about and of course I

843

00:40:20,260 --> 00:40:25,119

was reading about the pro truth pledge

844

00:40:22,838 --> 00:40:28,058

in your book your book is called the

845

00:40:25,119 --> 00:40:29,380

truth seekers handbook what can you tell

846

00:40:28,059 --> 00:40:31,900

me about that how long has that been

847

00:40:29,380 --> 00:40:35,789

available it's been available since

848

00:40:31,900 --> 00:40:38,200

November 23rd of last year and the book

849

00:40:35,789 --> 00:40:40,510

basically talks about

850

00:40:38,199 --> 00:40:42,848

why we as human beings believe in lives

851

00:40:40,510 --> 00:40:44,380

you know we think of ourselves as

852

00:40:42,849 --> 00:40:46,838

rational and logical creatures

853

00:40:44,380 --> 00:40:49,210

especially as skeptics among us but the

854

00:40:46,838 --> 00:40:50,949

research shows and this comes from

855

00:40:49,210 --> 00:40:53,320

behavioral science in which one that I'm

856
00:40:50,949 --> 00:40:56,588
an expert that we tend to be driven

857
00:40:53,320 --> 00:41:00,400
strongly by emotions and that results in

858
00:40:56,588 --> 00:41:02,139
us believing in falsehoods and this is

859
00:41:00,400 --> 00:41:04,480
the field of research called cognitive

860
00:41:02,139 --> 00:41:06,608
bias research things like confirmation

861
00:41:04,480 --> 00:41:08,769
bias things like backfire effect and I

862
00:41:06,608 --> 00:41:10,690
can talk about other phenomena but

863
00:41:08,769 --> 00:41:12,820
causes us to believe in falsehoods so

864
00:41:10,690 --> 00:41:15,220
the book helps everyone who cares about

865
00:41:12,820 --> 00:41:17,289
truth and facts address the kind of

866
00:41:15,219 --> 00:41:20,559
cognitive biases that might cause them

867
00:41:17,289 --> 00:41:23,980
to believe in false words and believe me

868
00:41:20,559 --> 00:41:27,039
you know I was a skeptic from when I was

869
00:41:23,980 --> 00:41:30,550
in high school and college I ran as

870
00:41:27,039 --> 00:41:32,619
college club for freethinkers and once I

871
00:41:30,550 --> 00:41:34,750
started researching cognitive biases I

872
00:41:32,619 --> 00:41:36,700
saw how I was falling into them all the

873
00:41:34,750 --> 00:41:39,130
time before I started researching them

874
00:41:36,699 --> 00:41:41,559
so it's for everyone who's a skeptic and

875
00:41:39,130 --> 00:41:44,079
who cares about truth really cares about

876
00:41:41,559 --> 00:41:46,989
truth in facts and also wants to guide

877
00:41:44,079 --> 00:41:48,730
other people and them to orient toward

878
00:41:46,989 --> 00:41:52,659
true facts it has research-based

879
00:41:48,730 --> 00:41:54,849
strategies how we escaped experiments

880
00:41:52,659 --> 00:41:56,769
can guide others into doing so because

881
00:41:54,849 --> 00:41:59,230
let's be honest the fact that there's so

882
00:41:56,769 --> 00:42:01,210
much false true politics out there right

883
00:41:59,230 --> 00:42:04,990
now and fake news shows that the way

884

00:42:01,210 --> 00:42:06,940
we've been doing it so far is wrong and

885
00:42:04,989 --> 00:42:08,979
I noticed there's an interesting series

886
00:42:06,940 --> 00:42:12,369
of chapters in your book sort of based

887
00:42:08,980 --> 00:42:13,900
around when you could use your gut you

888
00:42:12,369 --> 00:42:16,358
know what does your gut tell you we hear

889
00:42:13,900 --> 00:42:18,639
this all the time especially from people

890
00:42:16,358 --> 00:42:22,509
in our area of interest which is the

891
00:42:18,639 --> 00:42:25,118
paranormal believers who who as far as

892
00:42:22,510 --> 00:42:28,569
they are concerned they've already found

893
00:42:25,119 --> 00:42:32,950
the truth they know the truth and we as

894
00:42:28,568 --> 00:42:35,259
skeptics are obviously misguided fools

895
00:42:32,949 --> 00:42:37,299
do you you must know what I'm talking

896
00:42:35,260 --> 00:42:40,599
about when I talk about that sort of

897
00:42:37,300 --> 00:42:43,450
thing of course yes there's these sorts

898
00:42:40,599 --> 00:42:45,849

of conversations all the time and

899

00:42:43,449 --> 00:42:48,879
paranormal is an area you know

900

00:42:45,849 --> 00:42:51,369
genetically modified organisms GMOs as

901

00:42:48,880 --> 00:42:51,910
an area you know climate skepticism as

902

00:42:51,369 --> 00:42:54,358
an area

903

00:42:51,909 --> 00:42:57,068
various sorts of conspiracy theories and

904

00:42:54,358 --> 00:43:00,038
what I find is really important what I

905

00:42:57,068 --> 00:43:01,750
talk about in the book is to describe

906

00:43:00,039 --> 00:43:04,630
and what the research finds is to figure

907

00:43:01,750 --> 00:43:06,760
out the emotions that drive people to

908

00:43:04,630 --> 00:43:08,619
believe in falsehoods because if they

909

00:43:06,760 --> 00:43:11,140
believe in falsehoods things that aren't

910

00:43:08,619 --> 00:43:13,390
real there are some certain emotions

911

00:43:11,139 --> 00:43:14,739
that are they're satisfying there are

912

00:43:13,389 --> 00:43:17,409
certain emotional needs that are being

913
00:43:14,739 --> 00:43:19,029
satisfied by belief in falsehoods and

914
00:43:17,409 --> 00:43:21,338
what you need to do is figure out the

915
00:43:19,030 --> 00:43:23,200
emotions talk about this book how to do

916
00:43:21,338 --> 00:43:25,389
so that causes them to believe in

917
00:43:23,199 --> 00:43:27,598
falsehoods and then show them how they

918
00:43:25,389 --> 00:43:30,730
can satisfy these same emotional needs

919
00:43:27,599 --> 00:43:32,440
through facts and reality and that's

920
00:43:30,730 --> 00:43:34,088
kind of a subtle thing that we as

921
00:43:32,440 --> 00:43:36,130
skeptics really don't practice we

922
00:43:34,088 --> 00:43:37,960
practice just bombarding them over the

923
00:43:36,130 --> 00:43:40,269
head with information logical arguments

924
00:43:37,960 --> 00:43:42,760
and that just doesn't work it causes

925
00:43:40,269 --> 00:43:44,559
backfire they either stick they stuck to

926
00:43:42,760 --> 00:43:46,390
their positions and you know you don't

927
00:43:44,559 --> 00:43:48,430
usually you end up not having a real

928
00:43:46,389 --> 00:43:50,170
conversation so the book talks about

929
00:43:48,429 --> 00:43:52,298
strategic ways of communicating

930
00:43:50,170 --> 00:43:54,039
effectively to people who believe

931
00:43:52,298 --> 00:43:56,349
falsehoods in order to bring them toward

932
00:43:54,039 --> 00:43:58,289
offense that's interesting and I wonder

933
00:43:56,349 --> 00:44:01,778
what would happen if they themselves

934
00:43:58,289 --> 00:44:04,000
people who maybe believed in something

935
00:44:01,778 --> 00:44:05,380
that we would consider to be a delusion

936
00:44:04,000 --> 00:44:07,088
they would read that maybe they would

937
00:44:05,380 --> 00:44:08,710
try to use those arguments against

938
00:44:07,088 --> 00:44:10,269
skeptics who knows but there's an

939
00:44:08,710 --> 00:44:12,460
interesting point that you make in the

940
00:44:10,269 --> 00:44:14,019
book and you quote from a movie which is

941

00:44:12,460 --> 00:44:17,108
a bitch of a good movie called a few

942
00:44:14,019 --> 00:44:19,389
good men and that the quote is you can't

943
00:44:17,108 --> 00:44:21,969
handle the truth and I think that's a

944
00:44:19,389 --> 00:44:24,509
very good quote to use because it really

945
00:44:21,969 --> 00:44:28,179
makes the point of your book doesn't it

946
00:44:24,510 --> 00:44:31,599
yes yes it does oh it needs to the fact

947
00:44:28,179 --> 00:44:33,879
that truth is very much an emotional

948
00:44:31,599 --> 00:44:36,190
thing it's the motive and the reason

949
00:44:33,880 --> 00:44:38,440
that people believe it lies because they

950
00:44:36,190 --> 00:44:41,980
can't handle the truth emotionally so

951
00:44:38,440 --> 00:44:43,809
our aspiration a skeptic should be how

952
00:44:41,980 --> 00:44:46,449
to guide them how to guide their

953
00:44:43,809 --> 00:44:48,099
emotions toward believing the facts and

954
00:44:46,449 --> 00:44:49,719
the things that I took that you

955
00:44:48,099 --> 00:44:52,660

mentioned earlier kind of people using

956

00:44:49,719 --> 00:44:54,159
another skeptics great if we if we

957

00:44:52,659 --> 00:44:56,108
believe in falsehoods let them guide

958

00:44:54,159 --> 00:44:57,009
guide us there were the facts I mean I

959

00:44:56,108 --> 00:44:59,078
would love that

960

00:44:57,010 --> 00:45:02,020
the strategies that I talked about in

961

00:44:59,079 --> 00:45:04,720
the book only work for getting people to

962

00:45:02,019 --> 00:45:05,710
believe in the facts in the truth in the

963

00:45:04,719 --> 00:45:07,899
reality it

964

00:45:05,710 --> 00:45:09,400
work - they're not simply persuasion

965

00:45:07,900 --> 00:45:10,630
rhetorical tactics that's not what

966

00:45:09,400 --> 00:45:12,430
they're about this is about

967

00:45:10,630 --> 00:45:14,650
collaborative truth-seeking where you

968

00:45:12,429 --> 00:45:17,019
work with somebody else to figure out

969

00:45:14,650 --> 00:45:19,900
the truth the facts the nature of

970
00:45:17,019 --> 00:45:21,909
reality and that's what the essence of

971
00:45:19,900 --> 00:45:23,410
the book is about now of course you

972
00:45:21,909 --> 00:45:25,929
talked you mentioned briefly before

973
00:45:23,409 --> 00:45:27,819
confirmation bias which all skeptics are

974
00:45:25,929 --> 00:45:30,669
very familiar with that concept but

975
00:45:27,820 --> 00:45:32,680
confirmation bias is amplified

976
00:45:30,670 --> 00:45:34,960
especially in the last 10 years or so

977
00:45:32,679 --> 00:45:38,049
with the filter bubbles we live in now

978
00:45:34,960 --> 00:45:42,730
with things like Facebook and this sort

979
00:45:38,050 --> 00:45:44,800
of thing have you seen a rise in the

980
00:45:42,730 --> 00:45:46,599
general problem of people believing in

981
00:45:44,800 --> 00:45:50,050
falsehoods because of these filter

982
00:45:46,599 --> 00:45:52,809
bubbles absolutely the confirmation bias

983
00:45:50,050 --> 00:45:55,030
is one of the biggest drivers of fake

984
00:45:52,809 --> 00:45:56,858
news and most of politics so the

985
00:45:55,030 --> 00:46:00,250
confirmation bias is a psychological

986
00:45:56,858 --> 00:46:02,650
phenomenon where people look for one and

987
00:46:00,250 --> 00:46:04,500
you look for information with matches

988
00:46:02,650 --> 00:46:07,240
conforms to their beliefs and to

989
00:46:04,500 --> 00:46:10,599
interpret information they get in ways

990
00:46:07,239 --> 00:46:13,809
it matches their beliefs now if you know

991
00:46:10,599 --> 00:46:16,599
previously everyone just had access to

992
00:46:13,809 --> 00:46:19,420
mainstream news prior to the rise of

993
00:46:16,599 --> 00:46:21,940
social media digital media and so they

994
00:46:19,420 --> 00:46:23,740
could still interpret information that

995
00:46:21,940 --> 00:46:25,210
in the ways of match their beliefs but

996
00:46:23,739 --> 00:46:26,799
they couldn't really look for

997
00:46:25,210 --> 00:46:29,559
information that matched their beliefs

998

00:46:26,800 --> 00:46:31,680
wasn't readily accessible now with the

999
00:46:29,559 --> 00:46:34,509
rise of digital media and social media

1000
00:46:31,679 --> 00:46:37,149
there are various filter bubbles where

1001
00:46:34,510 --> 00:46:38,890
people can go to and specifically only

1002
00:46:37,150 --> 00:46:41,380
look for information that matches their

1003
00:46:38,889 --> 00:46:43,389
beliefs look at the only biased sources

1004
00:46:41,380 --> 00:46:45,869
including you know sources around by

1005
00:46:43,389 --> 00:46:48,940
Russia today and so on completely fake

1006
00:46:45,869 --> 00:46:51,910
fake information fake news that matches

1007
00:46:48,940 --> 00:46:54,670
their gut intuitions and the people who

1008
00:46:51,909 --> 00:46:57,670
try to manipulate us know that and they

1009
00:46:54,670 --> 00:46:59,349
create these sources they play into

1010
00:46:57,670 --> 00:47:01,510
people's confirmation bias and that's

1011
00:46:59,349 --> 00:47:04,180
kind of one of the things that the pro

1012
00:47:01,510 --> 00:47:06,820

truth pledge is meant to address it has

1013

00:47:04,179 --> 00:47:08,319

a large variety of strategies so the pro

1014

00:47:06,820 --> 00:47:10,900

Truth pledge approach you've pledged

1015

00:47:08,320 --> 00:47:13,990

that org gets people to commit to

1016

00:47:10,900 --> 00:47:15,940

behaviors that are aimed to address the

1017

00:47:13,989 --> 00:47:18,098

confirmation bias and various other

1018

00:47:15,940 --> 00:47:19,568

biases that cause us to believe in

1019

00:47:18,099 --> 00:47:20,979

falsehoods well he is

1020

00:47:19,568 --> 00:47:22,719

it's absolutely right and reading

1021

00:47:20,978 --> 00:47:24,458

through the book all these points are

1022

00:47:22,719 --> 00:47:27,670

very interesting especially for skeptic

1023

00:47:24,458 --> 00:47:30,028

especially for someone like me who on

1024

00:47:27,670 --> 00:47:32,798

the face of it you know I'm trying to

1025

00:47:30,028 --> 00:47:34,478

change people's minds or put the truth

1026

00:47:32,798 --> 00:47:36,130

out there the truth as far as I can

1027
00:47:34,478 --> 00:47:38,139
understand it so this is a very

1028
00:47:36,130 --> 00:47:40,599
interesting overview of what the truth

1029
00:47:38,139 --> 00:47:42,879
is and how to think about it the book

1030
00:47:40,599 --> 00:47:46,059
folks is called the truth seekers

1031
00:47:42,880 --> 00:47:49,959
handbook led where can people find that

1032
00:47:46,059 --> 00:47:52,930
book they can find it on Amazon so if

1033
00:47:49,958 --> 00:47:54,338
they are participants of Amazon smile

1034
00:47:52,929 --> 00:47:56,919
where are they donate to the nations

1035
00:47:54,338 --> 00:47:58,328
they can go to smelled at amazon.com but

1036
00:47:56,920 --> 00:48:00,519
in the truth seekers handbook a

1037
00:47:58,329 --> 00:48:03,400
science-based guide and they should find

1038
00:48:00,518 --> 00:48:05,558
it right there they can also go to the

1039
00:48:03,400 --> 00:48:08,650
approach of pledge website at pro truth

1040
00:48:05,559 --> 00:48:10,449
pledge that work find it through there

1041
00:48:08,650 --> 00:48:11,739
and they can find it on the intentional

1042
00:48:10,449 --> 00:48:14,108
insights website the intentional

1043
00:48:11,739 --> 00:48:15,999
insights is nonprofit that runs the pro

1044
00:48:14,108 --> 00:48:18,038
truth pledge and other true for Ian

1045
00:48:15,998 --> 00:48:21,278
subjects intentional insights is

1046
00:48:18,039 --> 00:48:23,859
intentional inside Stork bugs I'll link

1047
00:48:21,278 --> 00:48:25,509
to all those URLs on this week's show

1048
00:48:23,858 --> 00:48:27,699
notes so you can quickly look at that

1049
00:48:25,509 --> 00:48:30,998
and I also link to a couple of videos I

1050
00:48:27,699 --> 00:48:33,009
noticed gleb was kind enough to send me

1051
00:48:30,998 --> 00:48:35,379
where you can see him on action on

1052
00:48:33,009 --> 00:48:37,989
various news networks talking about

1053
00:48:35,380 --> 00:48:40,088
politics and the truth well thank you

1054
00:48:37,989 --> 00:48:41,858
very much for your time this morning or

1055

00:48:40,088 --> 00:48:44,978
this afternoon where you are in Columbus

1056
00:48:41,858 --> 00:48:48,248
Ohio and maybe we can chat again one day

1057
00:48:44,978 --> 00:48:49,868
about some more truth it will be

1058
00:48:48,248 --> 00:48:51,788
wonderful and I would encourage you

1059
00:48:49,869 --> 00:48:53,199
yourself as a public figure to consider

1060
00:48:51,789 --> 00:48:55,329
signing up to the purchase pledge

1061
00:48:53,199 --> 00:48:57,969
because you're already practicing these

1062
00:48:55,329 --> 00:48:59,440
behaviors and the more people make a

1063
00:48:57,969 --> 00:49:02,019
public commitment especially public

1064
00:48:59,440 --> 00:49:04,150
figures like yourself the more likely we

1065
00:49:02,018 --> 00:49:06,248
are to sway the political and public

1066
00:49:04,150 --> 00:49:08,650
conversation be more oriented toward

1067
00:49:06,248 --> 00:49:10,838
shufen facts I better head over there

1068
00:49:08,650 --> 00:49:13,568
straight away glenn Sabarsky thank you

1069
00:49:10,838 --> 00:49:15,869

very much thanks so much Richard was a

1070

00:49:13,568 --> 00:49:15,869
pleasure

1071

00:49:17,050 --> 00:49:22,079
[Music]

1072

00:49:25,590 --> 00:49:30,039
[Music]

1073

00:49:36,748 --> 00:49:41,998
thank you for listening to the skeptics

1074

00:49:39,009 --> 00:49:43,748
oh now I don't know if you can hear it

1075

00:49:41,998 --> 00:49:45,669
hopefully not I've got all the windows

1076

00:49:43,748 --> 00:49:49,480
shut but I've got aircraft coming

1077

00:49:45,670 --> 00:49:51,700
overhead now it's weird often I will

1078

00:49:49,480 --> 00:49:54,248
record the the voiceover bits for the

1079

00:49:51,699 --> 00:49:59,078
skeptic zone on a Sunday morning here in

1080

00:49:54,248 --> 00:50:02,528
in Sydney and Sunday morning is usually

1081

00:49:59,079 --> 00:50:04,210
within certain hours the time of this

1082

00:50:02,528 --> 00:50:06,449
corridor being used the one that goes

1083

00:50:04,210 --> 00:50:09,730
over my house for Sydney Airport

1084
00:50:06,449 --> 00:50:11,409
sometimes I get jets coming over every

1085
00:50:09,730 --> 00:50:14,498
two minutes you can imagine what that's

1086
00:50:11,409 --> 00:50:18,969
like for recording but it's a great case

1087
00:50:14,498 --> 00:50:20,768
of something like confirmation bias or

1088
00:50:18,969 --> 00:50:22,449
remembering the hits and forgetting the

1089
00:50:20,768 --> 00:50:25,088
misses in other words while I'm

1090
00:50:22,449 --> 00:50:26,858
preparing the show writing something or

1091
00:50:25,088 --> 00:50:29,440
putting the web page together or doing

1092
00:50:26,858 --> 00:50:31,259
some edits around the same time I don't

1093
00:50:29,440 --> 00:50:33,249
notice any planes at all of course I'm

1094
00:50:31,259 --> 00:50:35,440
occupied doing something else but as

1095
00:50:33,248 --> 00:50:37,358
soon as I turn the microphone on and I

1096
00:50:35,440 --> 00:50:40,480
say hello and welcome to his room here

1097
00:50:37,358 --> 00:50:42,699
comes a plane yeah I think it's a really

1098
00:50:40,480 --> 00:50:44,170
good example of remembering the hits and

1099
00:50:42,699 --> 00:50:46,719
forgetting the misses which is something

1100
00:50:44,170 --> 00:50:49,559
we explore often when we think about

1101
00:50:46,719 --> 00:50:52,959
psychic research and people who go to

1102
00:50:49,559 --> 00:50:54,579
get reading the psychic readings whether

1103
00:50:52,960 --> 00:50:54,999
the psychic can shatter them for half an

1104
00:50:54,579 --> 00:50:57,609
hour

1105
00:50:54,998 --> 00:50:59,738
tell them many many many many many

1106
00:50:57,608 --> 00:51:02,650
things but only two or three or four

1107
00:50:59,739 --> 00:51:04,420
will make sense and those are the points

1108
00:51:02,650 --> 00:51:07,778
people remember it's all very

1109
00:51:04,420 --> 00:51:10,239
interesting fact if I listen yes he

1110
00:51:07,778 --> 00:51:12,099
comes another one now normally I'd stop

1111
00:51:10,239 --> 00:51:12,608
recording but this week I say ah what

1112

00:51:12,099 --> 00:51:16,720
the hell

1113
00:51:12,608 --> 00:51:18,998
let the planes fly over well that's a

1114
00:51:16,719 --> 00:51:20,709
big one I wonder what that is I've got

1115
00:51:18,998 --> 00:51:22,629
it you can go to this web page I

1116
00:51:20,710 --> 00:51:24,400
sometimes use flight radar I think it's

1117
00:51:22,630 --> 00:51:29,769
called and I can actually see the planes

1118
00:51:24,400 --> 00:51:33,369
flying over by my house now well it

1119
00:51:29,768 --> 00:51:34,058
amuses the cats coming up on next week's

1120
00:51:33,369 --> 00:51:36,068
show

1121
00:51:34,059 --> 00:51:38,470
ah more trivia quiz in fact the last

1122
00:51:36,068 --> 00:51:41,369
round as you heard before and it will be

1123
00:51:38,469 --> 00:51:41,368
read by Maynard

1124
00:51:41,760 --> 00:51:48,210
I think that one's coming in from Hong

1125
00:51:44,340 --> 00:51:49,950
Kong I don't know but until then this is

1126
00:51:48,210 --> 00:51:52,320

Richard Saunders a couple of cats and

1127

00:51:49,949 --> 00:51:58,799

lots of airplanes signing off from

1128

00:51:52,320 --> 00:52:01,800

Sydney Australia you've been listening

1129

00:51:58,800 --> 00:52:06,570

to the skeptic zone podcast please visit

1130

00:52:01,800 --> 00:52:09,870

our website at WWDC be for show notes

1131

00:52:06,570 --> 00:52:13,920

contacts and to access the bat catalogue

1132

00:52:09,869 --> 00:52:15,779

of episodes going back to 2008 you can

1133

00:52:13,920 --> 00:52:18,840

follow the skeptic zone podcast on

1134

00:52:15,780 --> 00:52:21,120

twitter at skeptic zone visit our

1135

00:52:18,840 --> 00:52:22,010

facebook page or leave a review on

1136

00:52:21,119 --> 00:52:24,690

itunes

1137

00:52:22,010 --> 00:52:28,080

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1138

00:52:24,690 --> 00:52:30,800

via patreon or paypal the skeptic zone

1139

00:52:28,079 --> 00:52:33,179

podcast is an independent production

1140

00:52:30,800 --> 00:52:35,310

reviews and opinions expressed on the

1141
00:52:33,179 --> 00:52:37,649
skeptic zone are not necessarily those

1142
00:52:35,309 --> 00:52:39,449
of Australian skeptics or any other

1143
00:52:37,650 --> 00:52:45,940
sceptical organisation

1144
00:52:39,449 --> 00:52:45,939
[Music]

1145
00:52:48,489 --> 00:53:03,259
hmm what is it look a scratch you want

1146
00:53:00,920 --> 00:53:04,670
to do the webpage this week do you know

1147
00:53:03,259 --> 00:53:06,858
you just wouldn't do the editing for the

1148
00:53:04,670 --> 00:53:09,459
show hmm you just want to scratch behind

1149
00:53:06,858 --> 00:53:09,458
the year