

Show 490

THE
**SKEPTIC
ZONE**
PODCAST

www.skepticzone.tv

11 March 2018



Novella / Benham / Tsipursky

The Skeptics' Guide to the Universe
How to Know What's Really Real in a World Increasingly Full of Fake
with Dr Steve Novella.

Maynard's Spooky Action!
Maynard at Sydney Skeptics in the Pub where it's trivia night.
Test yourself with the second round of 20 questions. Your MC is Lara Benham.

Is the truth out there?
We chat to Dr. Gleb Tsipursky who is passionate
about promoting truth-oriented behaviour.

1
00:00:09,080 --> 00:00:05,920

[Music]

2
00:00:11,830 --> 00:00:09,090

welcome to the skeptic zone the podcast

3
00:00:13,910 --> 00:00:11,840

from Australia for science and reason

4
00:00:16,840 --> 00:00:13,920

[Music]

5
00:00:22,720 --> 00:00:16,850

[Applause]

6
00:00:25,220 --> 00:00:22,730

[Music]

7
00:00:29,089 --> 00:00:25,230

yes it's the skeptics own podcast

8
00:00:31,999 --> 00:00:29,099

episode number 494 the 11th of March

9
00:00:35,509 --> 00:00:32,009

2018 richardsaunders here with you from

10
00:00:42,910 --> 00:00:35,519

a wonderfully warm not to Mikey

11
00:00:47,689 --> 00:00:42,920

sunny Sydney Australia episode 490 II

12
00:00:50,899 --> 00:00:47,699

500 is there now in sight episode 500 in

13
00:00:53,330 --> 00:00:50,909

and only at 10 weeks I have no idea

14

00:00:56,900 --> 00:00:53,340

folks no idea at all what I'll do for

15

00:01:00,919 --> 00:00:56,910

episode 500 but I'll have a chat to the

16

00:01:03,650 --> 00:01:00,929

other report ISM and coming up on this

17

00:01:06,469 --> 00:01:03,660

week's show an old friend of mine dr.

18

00:01:08,389 --> 00:01:06,479

Steven novella from the skeptics guide

19

00:01:10,880 --> 00:01:08,399

to the universe he's going to be telling

20

00:01:13,010 --> 00:01:10,890

us about the new book called the

21

00:01:16,010 --> 00:01:13,020

skeptics guide to universe how to know

22

00:01:20,029 --> 00:01:16,020

what's really real in a world

23

00:01:21,800 --> 00:01:20,039

increasingly full of fake always good to

24

00:01:24,139 --> 00:01:21,810

catch up with Steve novella and The

25

00:01:26,380 --> 00:01:24,149

Skeptical rogues whenever I can which

26

00:01:28,729 --> 00:01:26,390

isn't often of course because we live

27

00:01:31,430 --> 00:01:28,739

it's hard to imagine somebody living

28

00:01:33,199 --> 00:01:31,440

further away than the skeptical rogues

29

00:01:35,779 --> 00:01:33,209

to Sydney Australia all the way over

30

00:01:39,350 --> 00:01:35,789

there and you know mostly in Connecticut

31

00:01:42,139 --> 00:01:39,360

laughing anyway anyway Steve will also

32

00:01:44,240 --> 00:01:42,149

be telling us about the side project

33

00:01:47,600 --> 00:01:44,250

some of the rogues do called alpha

34

00:01:50,199 --> 00:01:47,610

quadrant six which maybe isn't entirely

35

00:01:53,809 --> 00:01:50,209

skeptical but it's about reviewing

36

00:01:57,770 --> 00:01:53,819

science fiction following that it's

37

00:01:59,240 --> 00:01:57,780

round 2 round 2 of The Skeptical trivia

38

00:02:01,880 --> 00:01:59,250

night we had a couple of weeks ago at

39

00:02:05,359 --> 00:02:01,890

Sydney's skeptics in the pub as part of

40

00:02:07,609 --> 00:02:05,369

Maenads spooky action and round two this

41

00:02:10,850 --> 00:02:07,619

week will be read out to you by Lara

42

00:02:12,800 --> 00:02:10,860

Benham and bear in mind this is the

43

00:02:14,900 --> 00:02:12,810

edited version so the questions come

44

00:02:17,059 --> 00:02:14,910

very quickly nevertheless you can play

45

00:02:19,640 --> 00:02:17,069

along and then Lara will read out the

46

00:02:23,059 --> 00:02:19,650

answers then to round off the show I

47

00:02:26,570 --> 00:02:23,069

chat to dr. Gleb surplus key who is a

48

00:02:28,550 --> 00:02:26,580

professor at Ohio State University he's

49

00:02:31,970 --> 00:02:28,560

going to be telling us about the truth

50

00:02:34,310 --> 00:02:31,980

pledge and his campaign for truth and

51
00:02:35,070 --> 00:02:34,320
about his new book the truth seekers

52
00:02:39,090 --> 00:02:35,080
hand

53
00:02:42,090 --> 00:02:39,100
a science-based guide is the truth out

54
00:02:43,860 --> 00:02:42,100
there is the truth in here I got a

55
00:02:47,340 --> 00:02:43,870
couple of cats behind me maybe they know

56
00:02:51,570 --> 00:02:47,350
the truth I think they do that interview

57
00:02:54,120 --> 00:02:51,580
coming up to round off the show now just

58
00:02:56,610 --> 00:02:54,130
last night Maine I'd come over for

59
00:02:59,880 --> 00:02:56,620
dinner that's always a YUM an occasion

60
00:03:03,059 --> 00:02:59,890
and before Maine odd came over we took

61
00:03:05,250 --> 00:03:03,069
him to get some food at this local

62
00:03:08,220 --> 00:03:05,260
supermarket and we went into the room of

63
00:03:12,240 --> 00:03:08,230

cheese in our local supermarket they

64

00:03:16,620 --> 00:03:12,250

have a special room very cold just the

65

00:03:20,390 --> 00:03:16,630

cheese may not in a cheese room so I'm

66

00:03:23,850 --> 00:03:20,400

gonna run downstairs have some cheese on

67

00:03:26,400 --> 00:03:23,860

toast or crackers come straight back up

68

00:03:27,600 --> 00:03:26,410

and enjoy with you the rest of the

69

00:03:50,289 --> 00:03:27,610

skeptic zone

70

00:03:54,110 --> 00:03:52,759

and joining me now all the way from

71

00:03:56,839 --> 00:03:54,120

Connecticut you've heard him on the

72

00:03:59,330 --> 00:03:56,849

skeptics guide to the universe dr. Steve

73

00:04:01,819 --> 00:03:59,340

novella hello Steve hey Richard how you

74

00:04:03,319 --> 00:04:01,829

doing I'm doing really well it's so nice

75

00:04:05,690 --> 00:04:03,329

to catch up with you to have a chat with

76

00:04:07,550 --> 00:04:05,700

you you've appeared on the the skeptic

77

00:04:11,150 --> 00:04:07,560

zone before as a guest but very rarely

78

00:04:12,890 --> 00:04:11,160

in a long time ago yeah yeah we should

79

00:04:14,569 --> 00:04:12,900

do this more often it's it's fun to me

80

00:04:16,430 --> 00:04:14,579

you know we were just marveling at the

81

00:04:19,189 --> 00:04:16,440

fact that we're talking across the

82

00:04:21,620 --> 00:04:19,199

planet without any delay it's like

83

00:04:23,540 --> 00:04:21,630

you're in the next room there's no delay

84

00:04:26,629 --> 00:04:23,550

folks it's weird I'm speaking to Steve

85

00:04:28,879 --> 00:04:26,639

from about quarter past 10:00 in the

86

00:04:31,189 --> 00:04:28,889

evening Sidney time and Steve I think

87

00:04:35,779 --> 00:04:31,199

it's early morning for you yeah it's

88

00:04:37,870 --> 00:04:35,789

6:00 a.m. the perfect time for global

89

00:04:42,050 --> 00:04:37,880

communication I thought I'd give you a

90

00:04:43,879 --> 00:04:42,060

good contact you congratulations on the

91

00:04:46,010 --> 00:04:43,889

continuing success of the skeptics guide

92

00:04:48,560 --> 00:04:46,020

to the universe podcast of course and

93

00:04:51,320 --> 00:04:48,570

it's because of your podcast and the

94

00:04:55,190 --> 00:04:51,330

rogue's that many people hear about the

95

00:04:57,320 --> 00:04:55,200

skeptic zone oh that's great yeah so we

96

00:05:00,020 --> 00:04:57,330

do have a lot of listeners in Australia

97

00:05:02,450 --> 00:05:00,030

we get to on our media host you know we

98

00:05:05,440 --> 00:05:02,460

could look at the distribution of our

99

00:05:09,860 --> 00:05:05,450

listeners and Australia I think is

100

00:05:12,529 --> 00:05:09,870

number two Wow and in terms of numbers

101
00:05:14,600 --> 00:05:12,539
and probably maybe even number one in

102
00:05:17,240 --> 00:05:14,610
terms of percentage of population right

103
00:05:19,580 --> 00:05:17,250
all right yeah I think there's a good

104
00:05:22,339 --> 00:05:19,590
audience here in Australia for this sort

105
00:05:24,440 --> 00:05:22,349
of thing but let's not talk about the

106
00:05:26,420 --> 00:05:24,450
podcast for a moment I'm interested

107
00:05:28,370 --> 00:05:26,430
because I it's come to my attention to

108
00:05:30,320 --> 00:05:28,380
why I sort of knew this before but it's

109
00:05:33,200 --> 00:05:30,330
only recently put being put out there

110
00:05:35,629 --> 00:05:33,210
online that the skeptics guide to the

111
00:05:37,159 --> 00:05:35,639
universe is not only a podcast it's a

112
00:05:41,180 --> 00:05:37,169
book what can you tell me about that

113
00:05:42,980 --> 00:05:41,190

that's right yeah so our our book which

114

00:05:45,529 --> 00:05:42,990

is the skeptics guide to the universe

115

00:05:47,300 --> 00:05:45,539

our eponymous book if you will it just

116

00:05:50,720 --> 00:05:47,310

became available for pre

117

00:05:52,670 --> 00:05:50,730

order on amazon.com which we're really

118

00:05:55,670 --> 00:05:52,680

excited about so the book itself will be

119

00:05:57,920 --> 00:05:55,680

released October 2nd

120

00:06:00,530 --> 00:05:57,930

it's a hundred percent written as you

121

00:06:02,180 --> 00:06:00,540

know but you probably know that the the

122

00:06:04,580 --> 00:06:02,190

process of publishing a book takes a

123

00:06:06,710 --> 00:06:04,590

long time so now it's the book so yeah

124

00:06:08,810 --> 00:06:06,720

the books totally done but all the

125

00:06:11,240 --> 00:06:08,820

logistical stuff has to still happen on

126

00:06:14,330 --> 00:06:11,250

the publisher end so there's still a lot

127

00:06:15,710 --> 00:06:14,340

of work to do but we're really excited

128

00:06:17,810 --> 00:06:15,720

about it we're actually getting started

129

00:06:18,920 --> 00:06:17,820

on our next books but maybe I'll talk

130

00:06:21,770 --> 00:06:18,930

about that next time

131

00:06:24,520 --> 00:06:21,780

wow that that's thinking ahead now what

132

00:06:27,800 --> 00:06:24,530

why the book and what's it all about

133

00:06:30,590 --> 00:06:27,810

so we've wanted to produce a book for a

134

00:06:35,330 --> 00:06:30,600

long time it's it's a complementary

135

00:06:39,650 --> 00:06:35,340

format I think to the podcast and we've

136

00:06:41,750 --> 00:06:39,660

also gotten a lot of requests for either

137

00:06:45,290 --> 00:06:41,760

specifically for us to produce a book or

138

00:06:47,750 --> 00:06:45,300

just like hey guys what would be the

139

00:06:50,240 --> 00:06:47,760

best book to give to somebody as an

140

00:06:53,180 --> 00:06:50,250

introduction to scientific skepticism or

141

00:06:55,010 --> 00:06:53,190

is there a good reference out there that

142

00:06:56,330 --> 00:06:55,020

will like systematically go through all

143

00:06:58,100 --> 00:06:56,340

the critical thinking stuff that you

144

00:07:00,410 --> 00:06:58,110

guys talk about on the show all the time

145

00:07:02,120 --> 00:07:00,420

and there yes there are references out

146

00:07:03,800 --> 00:07:02,130

there there are books out there we you

147

00:07:06,620 --> 00:07:03,810

know we refer to the demon haunted world

148

00:07:08,450 --> 00:07:06,630

a lot for example but those are books

149

00:07:10,480 --> 00:07:08,460

are getting a little dated you know they

150

00:07:13,670 --> 00:07:10,490

do get data there's been a ton of

151
00:07:16,010 --> 00:07:13,680
psychological research since some of the

152
00:07:18,980 --> 00:07:16,020
classic books of skepticism have come

153
00:07:21,170 --> 00:07:18,990
out and so we said you know what we just

154
00:07:24,470 --> 00:07:21,180
need to produce the book that everyone's

155
00:07:28,670 --> 00:07:24,480
asking for you know so we tried to make

156
00:07:32,240 --> 00:07:28,680
it simultaneously a few things one is a

157
00:07:34,490 --> 00:07:32,250
great introduction to people who have no

158
00:07:35,990 --> 00:07:34,500
idea what skepticism is or have no

159
00:07:40,310 --> 00:07:36,000
involvement with the skeptical movement

160
00:07:42,830 --> 00:07:40,320
and then number two we wanted it to be a

161
00:07:45,140 --> 00:07:42,840
great reference for people who are

162
00:07:49,460 --> 00:07:45,150
listening to the show who already are

163
00:07:51,290 --> 00:07:49,470

skeptics but want a you know to be walk

164

00:07:52,610 --> 00:07:51,300

through like this is everything a

165

00:07:54,170 --> 00:07:52,620

skeptic needs to know right that was

166

00:07:56,030 --> 00:07:54,180

kind of our approach to the book I

167

00:07:58,400 --> 00:07:56,040

really just say all right here's like I

168

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

think it's the the first concept was

169

00:08:01,040 --> 00:08:00,060

like here's 50 things or a hundred

170

00:08:02,869 --> 00:08:01,050

things or whatever that every

171

00:08:05,480 --> 00:08:02,879

skeptic needs to know and that's kind of

172

00:08:08,089 --> 00:08:05,490

the meat of the book is that that part

173

00:08:09,649 --> 00:08:08,099

of it but then it we wanted to also have

174

00:08:11,210 --> 00:08:09,659

new stuff in there like I wanted to make

175

00:08:13,159 --> 00:08:11,220

sure there was some content in there

176

00:08:15,290 --> 00:08:13,169

that even if you've listened to every

177

00:08:16,730 --> 00:08:15,300

episode of the SGU there is new stuff in

178

00:08:18,830 --> 00:08:16,740

that you have never heard before that

179

00:08:20,839 --> 00:08:18,840

you will learn so that was sort of our

180

00:08:22,279 --> 00:08:20,849

goal for the book and I think that you

181

00:08:23,749 --> 00:08:22,289

know we accomplished that we did we can

182

00:08:27,499 --> 00:08:23,759

we've been working on this book for a

183

00:08:28,909 --> 00:08:27,509

year and a half with and it's great

184

00:08:30,830 --> 00:08:28,919

working with an editor I mean if you've

185

00:08:33,350 --> 00:08:30,840

ever worked with an editor before yes

186

00:08:35,540 --> 00:08:33,360

but yeah it's a really really ups the

187

00:08:37,610 --> 00:08:35,550

quality so we're very happy with the

188

00:08:39,110 --> 00:08:37,620

result oh it certainly does and I have

189

00:08:41,240 --> 00:08:39,120

worked with editors before I've written

190

00:08:42,920 --> 00:08:41,250

quite a few books for many many years

191

00:08:44,750 --> 00:08:42,930

ago of course yeah yeah and things

192

00:08:47,600 --> 00:08:44,760

occurred to the editor which would never

193

00:08:48,800 --> 00:08:47,610

occurred to you as the author yeah it's

194

00:08:51,610 --> 00:08:48,810

just good to have another set of eyes

195

00:08:54,949 --> 00:08:51,620

you know the the the most interesting

196

00:08:57,079 --> 00:08:54,959

feedback I got from the editor was I

197

00:08:59,720 --> 00:08:57,089

don't understand what this means right

198

00:09:03,530 --> 00:08:59,730

so I wrote something and to me it's

199

00:09:05,360 --> 00:09:03,540

perfectly clear you know and then look

200

00:09:07,819 --> 00:09:05,370

at like yeah okay I could see that like

201
00:09:11,630 --> 00:09:07,829
I'm you know I'm beust I have a a

202
00:09:14,210 --> 00:09:11,640
vocabulary of not only a scientist but

203
00:09:16,430 --> 00:09:14,220
of a skeptic and there are certain words

204
00:09:18,980 --> 00:09:16,440
that are just part of my vocabulary now

205
00:09:22,130 --> 00:09:18,990
and I've kind of lost a little bit of a

206
00:09:24,590 --> 00:09:22,140
sense of what a non skeptic somebody who

207
00:09:27,160 --> 00:09:24,600
isn't steeped in this you know what

208
00:09:31,340 --> 00:09:27,170
would be a word they would necessarily

209
00:09:34,250 --> 00:09:31,350
completely understand and so it was good

210
00:09:35,930 --> 00:09:34,260
to get that level of feedback like you

211
00:09:38,600 --> 00:09:35,940
need to explain this a little bit more

212
00:09:40,610 --> 00:09:38,610
detail you know you you can so that

213
00:09:42,110 --> 00:09:40,620

that's that I think really added a great

214

00:09:45,079 --> 00:09:42,120

layer to the book where I was like okay

215

00:09:46,430 --> 00:09:45,089

yeah okay I'll go back and reword this

216

00:09:48,230 --> 00:09:46,440

so that it makes sense to somebody who

217

00:09:50,630 --> 00:09:48,240

has never heard these concepts before

218

00:09:52,280 --> 00:09:50,640

it's a very good point and this point

219

00:09:54,079 --> 00:09:52,290

was really brought home to me a couple

220

00:09:56,000 --> 00:09:54,089

of years ago I was very lucky enough to

221

00:09:59,269 --> 00:09:56,010

see Alan Alda give a talk here in

222

00:10:01,730 --> 00:09:59,279

Australia and because he's very into

223

00:10:03,889 --> 00:10:01,740

science communication and the example he

224

00:10:05,300 --> 00:10:03,899

gave he asked for a volunteer to come up

225

00:10:07,540 --> 00:10:05,310

from the audience and he showed the

226

00:10:10,100 --> 00:10:07,550

volunteer a sheet of paper with some

227

00:10:12,230 --> 00:10:10,110

popular tunes and he said to the

228

00:10:13,460 --> 00:10:12,240

volunteer to tap out the tune and see

229

00:10:14,720 --> 00:10:13,470

how many people in the audience know

230

00:10:17,450 --> 00:10:14,730

which tune your tap

231

00:10:19,220 --> 00:10:17,460

and of course to the to the volunteer

232

00:10:21,440 --> 00:10:19,230

tapping out the tune it was obvious what

233

00:10:23,720 --> 00:10:21,450

tune they were tapping but nobody in the

234

00:10:26,060 --> 00:10:23,730

audience had a clue and I thought that

235

00:10:30,170 --> 00:10:26,070

was a very good lesson yeah it's true I

236

00:10:32,720 --> 00:10:30,180

mean yeah so and if you've ever written

237

00:10:33,860 --> 00:10:32,730

puzzles for other people or you know and

238

00:10:35,900 --> 00:10:33,870

I mean have you ever done that or if

239

00:10:39,110 --> 00:10:35,910

you've ever run any kind of role-playing

240

00:10:41,510 --> 00:10:39,120

game you realize that you have the whole

241

00:10:42,230 --> 00:10:41,520

story in your head things make perfect

242

00:10:44,360 --> 00:10:42,240

sense to you

243

00:10:45,980 --> 00:10:44,370

yeah and they may be completely opaque

244

00:10:47,840 --> 00:10:45,990

to somebody else they don't they don't

245

00:10:50,180 --> 00:10:47,850

have the background information that you

246

00:10:51,980 --> 00:10:50,190

have so in the context you know what

247

00:10:53,780 --> 00:10:51,990

everything means but to somebody who

248

00:10:56,570 --> 00:10:53,790

doesn't know the context they could be

249

00:10:58,850 --> 00:10:56,580

lost so that's that is a one of the

250

00:11:03,020 --> 00:10:58,860

challenges of science communication and

251
00:11:05,590 --> 00:11:03,030
I think why sometimes scientists are not

252
00:11:09,530 --> 00:11:05,600
the best communicator is because they

253
00:11:13,520 --> 00:11:09,540
might not know the distinction between

254
00:11:15,080 --> 00:11:13,530
their jargon and the vernacular and they

255
00:11:17,510 --> 00:11:15,090
might not know where the deficits are

256
00:11:19,850 --> 00:11:17,520
and in the concepts that the general

257
00:11:21,470 --> 00:11:19,860
public understands and we're and that's

258
00:11:23,570 --> 00:11:21,480
sort of the skill set of the science

259
00:11:25,910 --> 00:11:23,580
communicator that sort of bridge the gap

260
00:11:28,730 --> 00:11:25,920
right between highly technical

261
00:11:31,850 --> 00:11:28,740
information and general public

262
00:11:33,620 --> 00:11:31,860
understanding and we're always paying

263
00:11:35,240 --> 00:11:33,630

really close attention to that trying to

264

00:11:36,950 --> 00:11:35,250

be a check on each other and taking

265

00:11:38,390 --> 00:11:36,960

feedback from other people and this is

266

00:11:42,380 --> 00:11:38,400

just another way to do that

267

00:11:44,360 --> 00:11:42,390

and it really is a very difficult skill

268

00:11:46,700 --> 00:11:44,370

set you know people you some people may

269

00:11:49,610 --> 00:11:46,710

become easy to them but there is there's

270

00:11:52,400 --> 00:11:49,620

a lot of nuance to thinking about how to

271

00:11:55,640 --> 00:11:52,410

translate very complicated often

272

00:11:59,150 --> 00:11:55,650

mathematical concepts to everyday

273

00:12:00,890 --> 00:11:59,160

understanding I'm fascinated by that cuz

274

00:12:03,290 --> 00:12:00,900

I think it and in the end the research

275

00:12:07,250 --> 00:12:03,300

actually backs this up you understand a

276

00:12:09,950 --> 00:12:07,260

topic the best when you have to explain

277

00:12:11,570 --> 00:12:09,960

it to somebody else mmm you know that's

278

00:12:14,630 --> 00:12:11,580

a good way of looking at it and I think

279

00:12:16,400 --> 00:12:14,640

I'd have to agree it makes you rethink

280

00:12:18,650 --> 00:12:16,410

the topic when you're trying to explain

281

00:12:20,930 --> 00:12:18,660

it and and you and I and I imagine many

282

00:12:22,310 --> 00:12:20,940

people out there listening find

283

00:12:24,440 --> 00:12:22,320

themselves from time to time having to

284

00:12:24,920 --> 00:12:24,450

explain what skepticism is and how it

285

00:12:27,280 --> 00:12:24,930

works

286

00:12:30,819 --> 00:12:27,290

sure now the book is

287

00:12:32,319 --> 00:12:30,829

I'm casting an eye at Amazon because you

288

00:12:33,790 --> 00:12:32,329

can pre-order the book at the moment and

289

00:12:36,160 --> 00:12:33,800

focus on link to that in the show notes

290

00:12:39,220 --> 00:12:36,170

of course it's called the skeptics guide

291

00:12:42,430 --> 00:12:39,230

to the universe buy stock the Steven

292

00:12:46,090 --> 00:12:42,440

novella and The Skeptical rogues now how

293

00:12:49,269 --> 00:12:46,100

does that work what's the breakdown yes

294

00:12:53,350 --> 00:12:49,279

so I wrote the bulk of the book and I

295

00:12:57,040 --> 00:12:53,360

edited the entire book and then the you

296

00:13:00,220 --> 00:12:57,050

know Bob Jay Evan and Kara contributed

297

00:13:03,009 --> 00:13:00,230

chapters to the book they each have one

298

00:13:06,490 --> 00:13:03,019

chapter that is written in their voice

299

00:13:09,819 --> 00:13:06,500

which I added but I didn't really

300

00:13:11,650 --> 00:13:09,829

rewrite so it is written in their voice

301
00:13:13,210 --> 00:13:11,660
and that's the but there's one section

302
00:13:15,129 --> 00:13:13,220
of the book that's called adventures in

303
00:13:16,960 --> 00:13:15,139
skepticism where we each tell our own

304
00:13:20,019 --> 00:13:16,970
adventure like an example of some

305
00:13:23,050 --> 00:13:20,029
journey that we went on where we had to

306
00:13:24,850 --> 00:13:23,060
confront either you know some you know

307
00:13:26,889 --> 00:13:24,860
pseudoscience and our own beliefs or in

308
00:13:29,740 --> 00:13:26,899
other people's beliefs or whatever some

309
00:13:31,780 --> 00:13:29,750
challenge that we faced and that's where

310
00:13:34,210 --> 00:13:31,790
in each of us has one chapter there we

311
00:13:36,100 --> 00:13:34,220
even have a chapter by Perry which is a

312
00:13:39,280 --> 00:13:36,110
reworked article that he had written

313
00:13:41,350 --> 00:13:39,290

years ago for our newsletter and then

314

00:13:42,579 --> 00:13:41,360

but the rest of the book so even when

315

00:13:44,199 --> 00:13:42,589

they contributed the chapters I

316

00:13:45,790 --> 00:13:44,209

basically had to rewrite every chapter

317

00:13:48,970 --> 00:13:45,800

because we really needed to be in one

318

00:13:51,129 --> 00:13:48,980

coherent voice so that they provided all

319

00:13:52,750 --> 00:13:51,139

the you know the material a lot of the

320

00:13:55,300 --> 00:13:52,760

structure and the framework and then I

321

00:13:56,889 --> 00:13:55,310

sort of put it into the consistent voice

322

00:13:59,860 --> 00:13:56,899

of the book and then when the editor

323

00:14:04,000 --> 00:13:59,870

went over it it was like she applied and

324

00:14:05,590 --> 00:14:04,010

even you know more consistent filter you

325

00:14:07,240 --> 00:14:05,600

know she was like this all has to sound

326

00:14:09,490 --> 00:14:07,250

the same you know you have to have the

327

00:14:11,679 --> 00:14:09,500

same format you it really needs to be

328

00:14:14,259 --> 00:14:11,689

consistent the narrative tone of the

329

00:14:17,769 --> 00:14:14,269

book has to flow very easily and that's

330

00:14:19,600 --> 00:14:17,779

where the editor you know that's their

331

00:14:21,819 --> 00:14:19,610

job right that's their there their

332

00:14:23,889 --> 00:14:21,829

specialty is putting it all together

333

00:14:26,139 --> 00:14:23,899

because to some extent like we were

334

00:14:27,699 --> 00:14:26,149

writing chapters right I want to write a

335

00:14:29,139 --> 00:14:27,709

chapter on pareidolia right that's a

336

00:14:31,480 --> 00:14:29,149

concept everybody should know about it

337

00:14:32,980 --> 00:14:31,490

there's a lesson in there to how our

338

00:14:36,759 --> 00:14:32,990

brain works and how our thinking works

339

00:14:38,559 --> 00:14:36,769

and it's kind of a story unto itself but

340

00:14:41,110 --> 00:14:38,569

then the editor went back and said yes

341

00:14:43,000 --> 00:14:41,120

but okay that's fine but this has to fit

342

00:14:45,220 --> 00:14:43,010

to the broader narrative arc of the

343

00:14:47,380 --> 00:14:45,230

whole book and and so that's when it

344

00:14:49,269 --> 00:14:47,390

really started to come together what a

345

00:14:53,620 --> 00:14:49,279

fascinating process that must have been

346

00:14:56,829 --> 00:14:53,630

as absolutely and I'm pleased to know

347

00:14:58,840 --> 00:14:56,839

that you're even working on the next

348

00:15:01,600 --> 00:14:58,850

book in the series and hopefully it'll

349

00:15:03,220 --> 00:15:01,610

be a long-running series but also when

350

00:15:05,590 --> 00:15:03,230

you're not podcasting and writing books

351
00:15:06,880 --> 00:15:05,600
you you and some of the rogues at least

352
00:15:10,510 --> 00:15:06,890
they're doing a really fun project

353
00:15:13,660 --> 00:15:10,520
called alpha quadrant six which is a

354
00:15:16,870 --> 00:15:13,670
video series what can you tell me about

355
00:15:19,960 --> 00:15:16,880
that yeah that is our science fiction

356
00:15:21,760 --> 00:15:19,970
review show it started because Star Trek

357
00:15:25,390 --> 00:15:21,770
discovery the the latest Star Trek

358
00:15:29,050 --> 00:15:25,400
series was coming out and so I wanted to

359
00:15:30,940 --> 00:15:29,060
do a real-time review show where we

360
00:15:32,740 --> 00:15:30,950
review each episode immediately

361
00:15:35,800 --> 00:15:32,750
afterwards like so it's an after show

362
00:15:37,269 --> 00:15:35,810
right and and we did that we had a lot

363
00:15:38,769 --> 00:15:37,279

of fun with it and you know we started

364

00:15:40,480 --> 00:15:38,779

to build an audience there's okay we

365

00:15:42,220 --> 00:15:40,490

should just we wanted to see how it went

366

00:15:45,490 --> 00:15:42,230

before we commit it to anything beyond

367

00:15:47,860 --> 00:15:45,500

that but we are having fun with it and

368

00:15:50,440 --> 00:15:47,870

you know I think it's being well

369

00:15:52,300 --> 00:15:50,450

received so we decided to evolve it into

370

00:15:54,460 --> 00:15:52,310

just an all-purpose science fiction

371

00:15:56,800 --> 00:15:54,470

review show so yes we're gonna cover

372

00:16:00,430 --> 00:15:56,810

Star Trek Discovery as long as that airs

373

00:16:03,070 --> 00:16:00,440

but we already have a long list of other

374

00:16:05,650 --> 00:16:03,080

shows that we have planned and in the

375

00:16:11,110 --> 00:16:05,660

gap between the seasons were going to be

376

00:16:14,260 --> 00:16:11,120

cranking out some other reviews so for

377

00:16:16,060 --> 00:16:14,270

example we may do we've already done

378

00:16:19,510 --> 00:16:16,070

Star Wars by the way we did the review

379

00:16:21,940 --> 00:16:19,520

of the latest Star Wars movie and then

380

00:16:26,590 --> 00:16:21,950

so we will be doing new science fiction

381

00:16:28,780 --> 00:16:26,600

movies as they come out but also we will

382

00:16:31,269 --> 00:16:28,790

we're going to go do some classic movies

383

00:16:33,280 --> 00:16:31,279

we'll do some TV series like we've

384

00:16:35,620 --> 00:16:33,290

already had a lot of requests to do the

385

00:16:37,269 --> 00:16:35,630

black mirror yeah bill

386

00:16:39,460 --> 00:16:37,279

yes electric dream so I mean this is

387

00:16:42,130 --> 00:16:39,470

endless content out there yes and then

388

00:16:43,329 --> 00:16:42,140

with the real fun ones of them on ones

389

00:16:45,540 --> 00:16:43,339

I'm looking forward to work which we're

390

00:16:48,970 --> 00:16:45,550

working on right now we're going to do

391

00:16:50,860 --> 00:16:48,980

themed reviews like ask an interesting

392

00:16:53,710 --> 00:16:50,870

sci-fi question like how does

393

00:16:54,700 --> 00:16:53,720

faster-than-light travel work in science

394

00:16:57,460 --> 00:16:54,710

fiction

395

00:17:00,610 --> 00:16:57,470

and which of them are plausible which

396

00:17:03,390 --> 00:17:00,620

are not plausible does the math work out

397

00:17:06,070 --> 00:17:03,400

you know and then like doing sort of a

398

00:17:07,000 --> 00:17:06,080

science of science fiction kind of stuff

399

00:17:08,860 --> 00:17:07,010

with those kind of things how do

400

00:17:10,449 --> 00:17:08,870

blasters work what's what are the

401
00:17:12,100 --> 00:17:10,459
energies involved you know what would

402
00:17:15,220 --> 00:17:12,110
really be required to make this happen

403
00:17:17,500 --> 00:17:15,230
etc OOP so we'll have a lot of fun with

404
00:17:20,050 --> 00:17:17,510
it that way I mean I think those are

405
00:17:21,610 --> 00:17:20,060
always I think our most popular segments

406
00:17:23,770 --> 00:17:21,620
is when we do the science of science

407
00:17:28,270 --> 00:17:23,780
fiction because that's I think what we

408
00:17:30,040 --> 00:17:28,280
have that's that's you know in our sweet

409
00:17:31,420 --> 00:17:30,050
spot to add to it causally obviously

410
00:17:34,660 --> 00:17:31,430
there's a ton of people out there doing

411
00:17:36,490 --> 00:17:34,670
science fiction review and there's a lot

412
00:17:39,400 --> 00:17:36,500
of science fiction urns out there it's

413
00:17:41,710 --> 00:17:39,410

very popular but you know we where we

414

00:17:43,870 --> 00:17:41,720

are skeptics you know we're skeptics and

415

00:17:45,850 --> 00:17:43,880

science enthusiasts reviewing science

416

00:17:49,000 --> 00:17:45,860

fiction so we're gonna try to really

417

00:17:50,560 --> 00:17:49,010

maximize that angle of it well I as you

418

00:17:53,980 --> 00:17:50,570

say there's endless content out there

419

00:17:55,870 --> 00:17:53,990

and there really is now endless content

420

00:17:58,780 --> 00:17:55,880

out there I noticed the platforms like

421

00:18:00,520 --> 00:17:58,790

Netflix seem to be generating in endless

422

00:18:02,620 --> 00:18:00,530

things and I quite like these series you

423

00:18:04,870 --> 00:18:02,630

have electric dreams I was very

424

00:18:06,670 --> 00:18:04,880

impressed with that one right yeah yeah

425

00:18:08,740 --> 00:18:06,680

there's did right with the the cable

426
00:18:10,510 --> 00:18:08,750
companies now producing the original a

427
00:18:12,960 --> 00:18:10,520
lot of original content I mean there's

428
00:18:16,060 --> 00:18:12,970
so much out there it's altered carbon

429
00:18:17,860 --> 00:18:16,070
and then I mean and then really good too

430
00:18:20,200 --> 00:18:17,870
there's really good science fiction on

431
00:18:22,870 --> 00:18:20,210
TV now you know it really is a golden

432
00:18:25,110 --> 00:18:22,880
age just looking back over the course of

433
00:18:27,670 --> 00:18:25,120
my life like the last 50 years there's

434
00:18:29,800 --> 00:18:27,680
definitely been some dry spells there's

435
00:18:32,140 --> 00:18:29,810
been the occasional you know really good

436
00:18:34,510 --> 00:18:32,150
series but now it's like an

437
00:18:35,860 --> 00:18:34,520
embarrassment of riches it really is out

438
00:18:37,570 --> 00:18:35,870

there yeah it really is

439

00:18:39,010 --> 00:18:37,580

well though I must say at the moment I'm

440

00:18:42,300 --> 00:18:39,020

getting a kick out of rewatching my

441

00:18:44,290 --> 00:18:42,310

favorite Martian so there you go yeah

442

00:18:46,140 --> 00:18:44,300

maybe we'll review that one we'll have

443

00:18:48,430 --> 00:18:46,150

you on the show to review that one oh I

444

00:18:50,470 --> 00:18:48,440

love it it just brings back the most

445

00:18:52,900 --> 00:18:50,480

wonderful memories folks the book is

446

00:18:55,300 --> 00:18:52,910

called the skeptics guide to the

447

00:18:58,210 --> 00:18:55,310

universe no surprise there by dr. Steven

448

00:19:00,190 --> 00:18:58,220

novella and The Skeptical rogues again

449

00:19:02,320 --> 00:19:00,200

we'll link to that in the show notes you

450

00:19:05,140 --> 00:19:02,330

can you can pre-order that now Steve I

451
00:19:07,420 --> 00:19:05,150
think yeah you could pre-order it now we

452
00:19:08,409 --> 00:19:07,430
are encouraging our listeners to

453
00:19:10,899 --> 00:19:08,419
pre-order because

454
00:19:13,330 --> 00:19:10,909
that will help launch the book you know

455
00:19:15,849 --> 00:19:13,340
that the pre-orders count in the first

456
00:19:17,289 --> 00:19:15,859
week of sales so and the way that it's

457
00:19:19,749 --> 00:19:17,299
really interesting what we discovered

458
00:19:22,269 --> 00:19:19,759
also about the the publishing industry

459
00:19:25,869 --> 00:19:22,279
is interesting because you know the

460
00:19:28,509 --> 00:19:25,879
books are the the book market has become

461
00:19:31,509 --> 00:19:28,519
a lot tighter in with the you know in

462
00:19:33,489 --> 00:19:31,519
the last couple of decades with you know

463
00:19:35,080 --> 00:19:33,499

the with social media and Internet and

464

00:19:36,639 --> 00:19:35,090

everything in digital content people

465

00:19:38,349 --> 00:19:36,649

aren't buying as many books so the

466

00:19:40,210 --> 00:19:38,359

margins are a lot thinner so when the

467

00:19:42,489 --> 00:19:40,220

but the publishers do is they really

468

00:19:44,919 --> 00:19:42,499

only put they're promoting resources

469

00:19:47,889 --> 00:19:44,929

behind books that do well in the first

470

00:19:51,580 --> 00:19:47,899

week or two and so that's that's the

471

00:19:53,499 --> 00:19:51,590

whole game so we really are hoping that

472

00:19:55,299 --> 00:19:53,509

people who want the book are gonna

473

00:19:58,359 --> 00:19:55,309

preorder it so that we get a big pulse

474

00:20:00,879 --> 00:19:58,369

on sales and that will help launch the

475

00:20:05,080 --> 00:20:00,889

book and hopefully you know not just

476
00:20:08,889 --> 00:20:05,090
this book but a whole series of books so

477
00:20:10,599 --> 00:20:08,899
and I do think that you know if you like

478
00:20:12,580 --> 00:20:10,609
listening to this show if you're you

479
00:20:13,690 --> 00:20:12,590
know a skeptic if you have people in

480
00:20:16,060 --> 00:20:13,700
your life that you want to make more

481
00:20:19,419 --> 00:20:16,070
skeptical this this book is designed to

482
00:20:21,180 --> 00:20:19,429
be the perfect intro to that it sounds

483
00:20:23,889 --> 00:20:21,190
just the ticket Steve I'll be certainly

484
00:20:26,710 --> 00:20:23,899
pre-ordering my copy to exist again

485
00:20:29,019 --> 00:20:26,720
folks once again folks I'll link to that

486
00:20:31,899 --> 00:20:29,029
on the show notes and dr. Steven novella

487
00:20:33,249 --> 00:20:31,909
all the way there on the other side of

488
00:20:35,259 --> 00:20:33,259

the planet where you're just starting

489

00:20:36,670 --> 00:20:35,269

your day's work thank you very much

490

00:20:51,230 --> 00:20:36,680

thank you Richard

491

00:20:56,789 --> 00:20:54,090

greetings listeners it's me captain

492

00:20:59,370 --> 00:20:56,799

disillusion on my youtube channel called

493

00:21:01,649 --> 00:20:59,380

captain disillusion I got the

494

00:21:03,690 --> 00:21:01,659

disillusion analyzed viral videos of the

495

00:21:06,210 --> 00:21:03,700

strange and unbelievable I explained how

496

00:21:08,190 --> 00:21:06,220

interframe video compression 3d motion

497

00:21:10,740 --> 00:21:08,200

tracking and stock V effects elements

498

00:21:12,960 --> 00:21:10,750

prove that Justin Bieber is not a secret

499

00:21:14,789 --> 00:21:12,970

reptilian alien that those videos of

500

00:21:16,799 --> 00:21:14,799

ghost cars are just unintentional

501
00:21:18,539 --> 00:21:16,809
optical illusions and that lightning did

502
00:21:20,370 --> 00:21:18,549
not strike a few feet away from a girl

503
00:21:23,100 --> 00:21:20,380
on a beach as we saw in the news I'm

504
00:21:26,370 --> 00:21:23,110
real fun at parties my best friend is a

505
00:21:28,230 --> 00:21:26,380
lens flare dimmer switch disillusion I

506
00:21:29,490 --> 00:21:28,240
dunno other people sometimes they even

507
00:21:31,860 --> 00:21:29,500
show up in my videos

508
00:21:34,259 --> 00:21:31,870
people like skepticisms grandpa James

509
00:21:36,330 --> 00:21:34,269
Randi serve de Soleil Acrobat Erica

510
00:21:38,490 --> 00:21:36,340
Lin's weight loss enthusiast Penn

511
00:21:40,590 --> 00:21:38,500
Jillette and the actual Beekman from

512
00:21:42,659 --> 00:21:40,600
Beakman's world I hope you'll check out

513
00:21:44,789 --> 00:21:42,669

my adventures interact with me in a

514

00:21:47,399 --> 00:21:44,799

platonic way and even consider becoming

515

00:21:50,190 --> 00:21:47,409

a patron of my work you can do all that

516

00:21:54,780 --> 00:21:50,200

and more on YouTube or at Captain

517

00:22:03,700 --> 00:21:59,980

his main art spooky action at the

518

00:22:08,419 --> 00:22:06,169

may not here to introduce you to round

519

00:22:11,029 --> 00:22:08,429

tube the trivia quiz we held with Sydney

520

00:22:13,399 --> 00:22:11,039

skeptics in the pub are you excited

521

00:22:17,169 --> 00:22:13,409

20 more questions coming away how did

522

00:22:19,610 --> 00:22:17,179

you go last week ah I heard you a slack

523

00:22:21,380 --> 00:22:19,620

anyway we had people riding in to the

524

00:22:24,260 --> 00:22:21,390

sceptic zone with their scores no one

525

00:22:26,450 --> 00:22:24,270

said they got 20 out of 20 no one said

526

00:22:29,840 --> 00:22:26,460

they got 20 out of 20 but if you were

527

00:22:32,649 --> 00:22:29,850

over 15 out of 20 not bad you would be

528

00:22:35,659 --> 00:22:32,659

considered more than slightly skeptical

529

00:22:41,289 --> 00:22:35,669

this week your trivia MOOC I'm sorry

530

00:22:48,320 --> 00:22:44,480

in which city did the bird skeptics in

531

00:22:50,600 --> 00:22:48,330

the pub event take place in which city

532

00:22:56,510 --> 00:22:50,610

to the first skeptics in the pub events

533

00:22:59,149 --> 00:22:56,520

take place question two silence thing

534

00:23:01,340 --> 00:22:59,159

wrote a book about the mathematics used

535

00:23:05,810 --> 00:23:01,350

in which popular love long-running TV

536

00:23:08,180 --> 00:23:05,820

show question three

537

00:23:10,729 --> 00:23:08,190

I'm going to give you multiple choice on

538

00:23:13,700 --> 00:23:10,739

this at the end which popular Australian

539

00:23:15,950 --> 00:23:13,710

magazine publish a fake Nostradamus

540

00:23:18,889 --> 00:23:15,960

portraying on its back to my work at

541

00:23:21,950 --> 00:23:18,899

these following the 9/11 attacks was it

542

00:23:23,450 --> 00:23:21,960

new idea perfumers Women's Day woman

543

00:23:26,269 --> 00:23:23,460

that would lead but all the New Age

544

00:23:29,960 --> 00:23:26,279

monthly run through the board game by

545

00:23:37,729 --> 00:23:29,970

the new idea Women's Day Women's Weekly

546

00:23:42,379 --> 00:23:37,739

or the New Age monthly question for what

547

00:23:47,389 --> 00:23:42,389

do the initials si si si ope stand for

548

00:23:51,200 --> 00:23:47,399

what do the initials si si si si si o P

549

00:23:57,889 --> 00:23:51,210

stand for Sox icon

550

00:23:59,419 --> 00:23:57,899

Cyclops or even question 5 what score do

551

00:24:03,519 --> 00:23:59,429

at least some of the Australian cricket

552

00:24:11,570 --> 00:24:08,899

question 6 which two animals we use to

553

00:24:14,899 --> 00:24:11,580

create the Fiji mermaid a hoax displayed

554

00:24:16,729 --> 00:24:14,909

by PT Barnum so which two animals is to

555

00:24:21,640 --> 00:24:16,739

create the Fiji mermaid you need both of

556

00:24:27,500 --> 00:24:25,010

questions save it and you'll get a point

557

00:24:30,560 --> 00:24:27,510

for each of the ones which two countries

558

00:24:33,380 --> 00:24:30,570

are most associated with this scam of

559

00:24:35,300 --> 00:24:33,390

psychic surgery which two countries are

560

00:24:39,500 --> 00:24:35,310

most associated with the scanner of

561

00:24:42,770 --> 00:24:39,510

psychic surgery I think it's on question

562

00:24:46,360 --> 00:24:42,780

eight campbelltown just outside Sydney

563

00:24:49,310 --> 00:24:46,370

holds an annual festival of whose ghost

564

00:24:56,720 --> 00:24:49,320

sample town just outside Sydney holds an

565

00:25:07,030 --> 00:24:56,730

annual festival of whose ghost I can

566

00:25:11,610 --> 00:25:08,670

[Music]

567

00:25:14,460 --> 00:25:11,620

the town of Roswell the town of Roswell

568

00:25:20,289 --> 00:25:14,470

favorite stories of crashed UFOs lies

569

00:25:28,749 --> 00:25:24,009

questions provided that the moon

570

00:25:30,969 --> 00:25:28,759

landings were not faith controversy when

571

00:25:33,639 --> 00:25:30,979

the last option how many people have

572

00:25:39,489 --> 00:25:33,649

walked on the moon how many people have

573

00:25:42,339 --> 00:25:39,499

walked on the moon question 11 the

574

00:25:44,469 --> 00:25:42,349

ideomotor effect or action is most

575

00:25:47,879 --> 00:25:44,479

commonly associated with which a

576

00:25:50,799 --> 00:25:47,889

mysterious plane so the ideomotor effect

577

00:26:00,310 --> 00:25:50,809

is most that mostly associated with

578

00:26:04,649 --> 00:26:00,320

which and steers claim question 12 who

579

00:26:06,639 --> 00:26:04,659

is credited with creating homeopathy

580

00:26:10,720 --> 00:26:06,649

there is credited with creating

581

00:26:15,289 --> 00:26:10,730

homeopathy Britain

582

00:26:17,899 --> 00:26:15,299

question 13 the latest Korean skeptic

583

00:26:20,659 --> 00:26:17,909

Barry Williams was in which branch of

584

00:26:22,730 --> 00:26:20,669

the Israeli military the latest

585

00:26:27,190 --> 00:26:22,740

Australian skeptic Barry Williams was in

586

00:26:33,799 --> 00:26:30,440

question 14 another question about James

587

00:26:36,440 --> 00:26:33,809

Randi James Randi often wears a pin on

588

00:26:39,259 --> 00:26:36,450

his label of a mythical flying animal

589

00:26:41,509 --> 00:26:39,269

what animal is it like so James Randi

590

00:26:44,710 --> 00:26:41,519

optimiser pin on here the palace of a

591

00:26:47,860 --> 00:26:44,720

mythical flying animal what animal is it

592

00:26:53,470 --> 00:26:47,870

question 15

593

00:26:57,519 --> 00:26:53,480

the lunar base the landing sites of

594

00:27:00,549 --> 00:26:57,529

Apollo 11 in 1969 so what it's the name

595

00:27:09,820 --> 00:27:00,559

of the lunar base the landing sites of

596

00:27:13,450 --> 00:27:09,830

Apollo 11 in 69 question 16 what is the

597

00:27:16,320 --> 00:27:13,460

name of the 2013 film based around an

598

00:27:19,870 --> 00:27:16,330

edge and Lorraine Warren investigation

599

00:27:21,659 --> 00:27:19,880

what is the name of the 2013 film based

600

00:27:31,870 --> 00:27:21,669

around an egg and Lorraine Warren

601
00:27:34,230 --> 00:27:31,880
investigation question 17 western

602
00:27:36,639 --> 00:27:34,240
astrology which of the three earth

603
00:27:38,289 --> 00:27:36,649
zodiac signs and you'll get a point for

604
00:27:40,510 --> 00:27:38,299
each but you can only write down three

605
00:27:45,250 --> 00:27:40,520
so what's the astrology which are the

606
00:27:52,899 --> 00:27:48,190
[Music]

607
00:27:56,769 --> 00:27:52,909
question 18 movie what movie is credited

608
00:27:59,349 --> 00:27:56,779
for the UFO craze at the late 1970s what

609
00:28:07,389 --> 00:27:59,359
movie is credited with the UFO craze of

610
00:28:10,629 --> 00:28:07,399
the late 1970s question 19 I apologize

611
00:28:17,019 --> 00:28:10,639
this triskaidekaphobia is the fear of

612
00:28:20,529 --> 00:28:17,029
what the trip triskaidekaphobia question

613
00:28:22,869 --> 00:28:20,539

20 the final question around - what is

614

00:28:24,820 --> 00:28:22,879

the name of the mysterious lights that

615

00:28:27,729 --> 00:28:24,830

are sometimes reported in east railey

616

00:28:32,420 --> 00:28:27,739

and out back the name of the mysterious

617

00:28:41,420 --> 00:28:34,990

[Music]

618

00:28:45,870 --> 00:28:43,440

that was round two

619

00:28:51,210 --> 00:28:45,880

how did you think you went but papers of

620

00:28:53,580 --> 00:28:51,220

the pub being passed around now neck

621

00:28:55,530 --> 00:28:53,590

beard neck beard neck beard they're

622

00:29:00,020 --> 00:28:55,540

being passed around now for the marking

623

00:29:10,740 --> 00:29:00,030

and here are the answers right marking

624

00:29:19,410 --> 00:29:10,750

quickly London yeah the sign of the same

625

00:29:21,150 --> 00:29:19,420

book was based on question 3 the faith

626

00:29:22,680 --> 00:29:21,160

Nostradamus core training that it

627

00:29:26,380 --> 00:29:22,690

published with the magazine was called

628

00:29:35,570 --> 00:29:31,520

no a new idea now are the impression for

629

00:29:38,600 --> 00:29:35,580

the FICO initials is the committee for

630

00:29:40,780 --> 00:29:38,610

the scientific investigation of claims

631

00:29:43,600 --> 00:29:40,790

of the paranormal

632

00:29:46,690 --> 00:29:43,610

I'll just say a word cite the committee

633

00:29:52,440 --> 00:29:46,700

for the scientific investigation of

634

00:30:08,840 --> 00:29:55,760

question 5 the Australian cricket team

635

00:30:13,560 --> 00:30:11,460

so to get the point Congressional things

636

00:30:15,660 --> 00:30:13,570

you need to have both the animals this

637

00:30:25,470 --> 00:30:15,670

is the Fiji mermaid it was a monkey and

638

00:30:27,540 --> 00:30:25,480

a fish I questions second the two

639

00:30:29,610 --> 00:30:27,550

countries associated with psychic

640

00:30:31,770 --> 00:30:29,620

surgery and you get point for each one

641

00:30:34,290 --> 00:30:31,780

of these the Philippines is one and

642

00:30:37,700 --> 00:30:34,300

Brazil is the other one

643

00:30:48,890 --> 00:30:42,210

question eight it was fish's ghost which

644

00:30:54,110 --> 00:30:52,880

question nine Rothwell is in New Mexico

645

00:30:58,590 --> 00:30:54,120

[Music]

646

00:31:02,300 --> 00:30:58,600

I'm gonna come to Mercer questions head

647

00:31:04,890 --> 00:31:02,310

of twelve people on the route 12

648

00:31:07,940 --> 00:31:04,900

[Music]

649

00:31:10,470 --> 00:31:07,950

question 13 the ideomotor effect

650

00:31:16,950 --> 00:31:10,480

disease-associated mostly with divining

651
00:31:19,290 --> 00:31:16,960
or dowsing question 12 and Lee feeding

652
00:31:21,810 --> 00:31:19,300
you the spelling of this one the person

653
00:31:26,770 --> 00:31:21,820
that creates homeopathy is Samuel

654
00:31:36,120 --> 00:31:29,620
question 13 Barry Williams was in the

655
00:31:40,180 --> 00:31:36,130
Royal Australian ankles question 14

656
00:31:41,980 --> 00:31:40,190
James Ramsay was a TSS but will accept

657
00:31:59,250 --> 00:31:41,990
dissipate because we said the black box

658
00:32:09,580 --> 00:32:04,150
doping anyway the database is called

659
00:32:11,950 --> 00:32:09,590
tranquility base tranquility base you

660
00:32:15,570 --> 00:32:11,960
the questions may see the film based

661
00:32:16,780 --> 00:32:15,580
around engineering Warren is the conger

662
00:32:21,670 --> 00:32:16,790
Iraqi

663
00:32:25,930 --> 00:32:24,430

question 17 and they can have a point

664

00:32:27,640 --> 00:32:25,940

for each one of these they get right

665

00:32:29,680 --> 00:32:27,650

provide them only written down three

666

00:32:36,900 --> 00:32:29,690

this is the astrology signs the earth

667

00:32:48,010 --> 00:32:39,400

that's three marks if they also write

668

00:32:50,800 --> 00:32:48,020

one for each question 18 question 18 UFO

669

00:32:55,870 --> 00:32:50,810

phrase is credited to quasi counters of

670

00:32:59,310 --> 00:32:55,880

the Third Kind to question 1915 upper

671

00:33:04,060 --> 00:32:59,320

phobia is a fear of the number 13

672

00:33:12,480 --> 00:33:04,070

well question 20 the mysterious lights

673

00:33:14,850 --> 00:33:13,440

yeah I'm gonna need a mortgage

674

00:33:16,710 --> 00:33:14,860

background as well so if you can add

675

00:33:22,250 --> 00:33:16,720

that up for us please put this cool

676
00:33:25,740 --> 00:33:22,260
somewhat table come round and flat get

677
00:33:31,130 --> 00:33:25,750
well takes just gonna come on up really

678
00:33:34,060 --> 00:33:31,140
should take photographs

679
00:33:36,250 --> 00:33:34,070
number one is Eureka

680
00:33:50,710 --> 00:33:36,260
[Music]

681
00:33:54,130 --> 00:33:50,720
number two they don't know - I didn't

682
00:33:56,880 --> 00:33:54,140
know what I was doing three wisemen

683
00:34:00,370 --> 00:33:56,890
looks biggest paintbrush for school

684
00:34:06,030 --> 00:34:00,380
Richard Wiseman number four is Sylvia

685
00:34:07,240 --> 00:34:06,040
Browne number five is Cara Santa Maria

686
00:34:12,159 --> 00:34:07,250
okay

687
00:34:14,190 --> 00:34:12,169
number six is Barry Williams seven is

688
00:34:19,389 --> 00:34:14,200

Johnny whoops

689

00:34:24,760 --> 00:34:19,399

eight is Eugenie Scott and nine is susan

690

00:34:27,099 --> 00:34:24,770

gerbic that was that second of three

691

00:34:30,040 --> 00:34:27,109

trivia rounds next week twenty more

692

00:34:35,230 --> 00:34:30,050

skeptical questions read out by me until

693

00:34:41,910 --> 00:34:35,240

then this is Maynard ha ha is a group

694

00:34:41,920 --> 00:34:55,379

[Music]

695

00:35:00,460 --> 00:34:57,880

hello this is Sharon Hill creator of

696

00:35:03,010 --> 00:35:00,470

doubtful news.com and the 15 credibility

697

00:35:05,260 --> 00:35:03,020

street podcast I have a new book for

698

00:35:07,360 --> 00:35:05,270

McFarland publishing called scientific

699

00:35:10,150 --> 00:35:07,370

Americans the culture of amateur

700

00:35:12,760 --> 00:35:10,160

paranormal researchers scientific

701
00:35:15,400 --> 00:35:12,770
means attempting to be scientific and do

702
00:35:17,890 --> 00:35:15,410
science but falling short this book is

703
00:35:19,930 --> 00:35:17,900
the first full examination of the rise

704
00:35:22,240 --> 00:35:19,940
of amateur research and investigation

705
00:35:24,430 --> 00:35:22,250
groups in America and how they do or

706
00:35:27,100 --> 00:35:24,440
don't use science to investigate ghosts

707
00:35:29,740 --> 00:35:27,110
UFOs and cryptids like Bigfoot and Lake

708
00:35:31,840 --> 00:35:29,750
Monsters I place these thousands of

709
00:35:34,420 --> 00:35:31,850
paranormal explorers into the historical

710
00:35:36,550 --> 00:35:34,430
context of their subject areas chart the

711
00:35:38,530 --> 00:35:36,560
influence of paranormal themed media and

712
00:35:40,930 --> 00:35:38,540
the Internet and examine what it means

713
00:35:43,540 --> 00:35:40,940

to do science and how amateurs can

714

00:35:45,430 --> 00:35:43,550

contribute paranormal believers skeptics

715

00:35:48,190 --> 00:35:45,440

and persons of all opinions in between

716

00:35:50,410 --> 00:35:48,200

will find scientific Americans to be a

717

00:35:52,750 --> 00:35:50,420

unique view of the modern relationship

718

00:35:54,610 --> 00:35:52,760

between science and society as well as

719

00:35:57,220 --> 00:35:54,620

our engagement with paranormal themes

720

00:35:59,170 --> 00:35:57,230

and popular culture purchase the book

721

00:36:01,510 --> 00:35:59,180

through your favorite bookseller or an

722

00:36:13,520 --> 00:36:01,520

Amazon Kindle version for more info

723

00:36:29,730 --> 00:36:26,870

[Music]

724

00:36:32,520 --> 00:36:29,740

and joining me now all the way from Ohio

725

00:36:33,600 --> 00:36:32,530

State University it's professor Glenn

726

00:36:35,040 --> 00:36:33,610

Sir Persky

727

00:36:38,340 --> 00:36:35,050

it's a pleasure to be on thank you so

728

00:36:40,500 --> 00:36:38,350

much for inviting now thank you very

729

00:36:42,960 --> 00:36:40,510

much in fact they're you contacted the

730

00:36:44,810 --> 00:36:42,970

skeptic zone a little while ago to let

731

00:36:47,190 --> 00:36:44,820

us know about a book you've written

732

00:36:49,440 --> 00:36:47,200

before we get to that book can you tell

733

00:36:54,270 --> 00:36:49,450

us a little bit about your your general

734

00:36:57,060 --> 00:36:54,280

background sure so my focus professor an

735

00:36:59,940 --> 00:36:57,070

activist is in truth seeking rational

736

00:37:02,250 --> 00:36:59,950

thinking and wise decision making that

737

00:37:04,530 --> 00:37:02,260

means fighting this information and

738

00:37:07,020 --> 00:37:04,540

incivility that's plaguing both the

739

00:37:10,230 --> 00:37:07,030

United States and your corner of the

740

00:37:12,630 --> 00:37:10,240

world New Zealand Australia and actually

741

00:37:16,320 --> 00:37:12,640

everywhere in democracies right now due

742

00:37:19,140 --> 00:37:16,330

to the fact that our information

743

00:37:21,180 --> 00:37:19,150

ecosystem is broken with the rise of

744

00:37:23,040 --> 00:37:21,190

social media and digital media so that's

745

00:37:26,070 --> 00:37:23,050

the focus of my activism and my research

746

00:37:29,090 --> 00:37:26,080

and I've noticed that you've appeared on

747

00:37:32,520 --> 00:37:29,100

many different news and television

748

00:37:36,260 --> 00:37:32,530

programs including here in Australia

749

00:37:40,260 --> 00:37:36,270

where you are appeared as a commentator

750

00:37:42,090 --> 00:37:40,270

mainly on political things is that is

751
00:37:47,010 --> 00:37:42,100
that been your focus in the past mainly

752
00:37:48,660 --> 00:37:47,020
politics no we focused so I run the

753
00:37:51,240 --> 00:37:48,670
nonprofit intentional insights at

754
00:37:53,520 --> 00:37:51,250
intentional insights org and we focus in

755
00:37:55,770 --> 00:37:53,530
a variety of areas of Troop seeking and

756
00:37:57,840 --> 00:37:55,780
rational thinking focus more on the

757
00:38:00,030 --> 00:37:57,850
skeptic community earlier and figuring

758
00:38:02,250 --> 00:38:00,040
out how to talk to non skeptics how to

759
00:38:05,400 --> 00:38:02,260
communicate effectively but with the

760
00:38:08,040 --> 00:38:05,410
rise of fake news and post truth

761
00:38:10,410 --> 00:38:08,050
politics in the last couple of years

762
00:38:12,060 --> 00:38:10,420
where that problem has become especially

763
00:38:13,950 --> 00:38:12,070

prevalent we focused most of our

764

00:38:16,800 --> 00:38:13,960

attention on politics because we see

765

00:38:18,750 --> 00:38:16,810

that as the area in most need of truth

766

00:38:22,050 --> 00:38:18,760

seeking and rational thinking and the

767

00:38:23,370 --> 00:38:22,060

most danger for our society from a lack

768

00:38:24,390 --> 00:38:23,380

of truth seeking in the rational

769

00:38:26,309 --> 00:38:24,400

thinking comes from

770

00:38:29,309 --> 00:38:26,319

domaine so that's what led us to start

771

00:38:31,079 --> 00:38:29,319

the pro truth pledge project at pro

772

00:38:33,329 --> 00:38:31,089

truth pledge that org which is a

773

00:38:36,390 --> 00:38:33,339

behavioral science informed tool that

774

00:38:39,299 --> 00:38:36,400

combines crowdsourcing and research to

775

00:38:41,400 --> 00:38:39,309

address misinformation and incivility in

776

00:38:43,950 --> 00:38:41,410

democracies around the world including

777

00:38:46,289 --> 00:38:43,960

Australia well I don't think you'd have

778

00:38:49,200 --> 00:38:46,299

any arguments of anybody about truth in

779

00:38:53,250 --> 00:38:49,210

politics it seems to be a very very

780

00:38:56,490 --> 00:38:53,260

fluid subject or a very fluid idea in

781

00:38:58,289 --> 00:38:56,500

politics what what the truth is and we

782

00:39:01,950 --> 00:38:58,299

also note that especially with

783

00:39:04,650 --> 00:39:01,960

politicians they sometimes are bound by

784

00:39:06,750 --> 00:39:04,660

deals made and pledges they know they

785

00:39:09,000 --> 00:39:06,760

can't keep and then then again the

786

00:39:10,980 --> 00:39:09,010

population sort of understands that yes

787

00:39:13,190 --> 00:39:10,990

well it's of only a political promise so

788

00:39:15,059 --> 00:39:13,200

maybe it's not the truth after all

789

00:39:17,160 --> 00:39:15,069

Australia is actually quite a big

790

00:39:19,859 --> 00:39:17,170

problem around the world including in

791

00:39:22,319 --> 00:39:19,869

Australia so the post the pro truth

792

00:39:23,940 --> 00:39:22,329

pledge is associated with the post truth

793

00:39:27,420 --> 00:39:23,950

initiative at the University of Sydney

794

00:39:29,819 --> 00:39:27,430

which studies questions around how

795

00:39:32,430 --> 00:39:29,829

approach of post true politics the

796

00:39:34,559 --> 00:39:32,440

problems around that and there are a

797

00:39:36,240 --> 00:39:34,569

number of people who have accused a

798

00:39:39,029 --> 00:39:36,250

number of government officials in

799

00:39:42,120 --> 00:39:39,039

Australia of engaging in misinformation

800

00:39:44,849 --> 00:39:42,130

and incivility so there are politicians

801
00:39:47,160 --> 00:39:44,859
who practice these things in Australia

802
00:39:49,319 --> 00:39:47,170
as elsewhere in other democracies and

803
00:39:52,349 --> 00:39:49,329
the point of the pro truth pledge is to

804
00:39:54,390 --> 00:39:52,359
gather together all the people who care

805
00:39:57,809 --> 00:39:54,400
about fighting misinformation and

806
00:40:01,529 --> 00:39:57,819
incivility and unite them in a combined

807
00:40:03,480 --> 00:40:01,539
effort to address politicians media

808
00:40:05,940 --> 00:40:03,490
figures and others who spread

809
00:40:07,950 --> 00:40:05,950
misinformation and civility because if

810
00:40:09,870 --> 00:40:07,960
you can unite together all the people

811
00:40:11,700 --> 00:40:09,880
who care about truth in facts then

812
00:40:13,589 --> 00:40:11,710
they're not separate and then their

813
00:40:15,750 --> 00:40:13,599

voice can be really hard and made

814

00:40:17,490 --> 00:40:15,760

significant and impactful and that's

815

00:40:20,250 --> 00:40:17,500

what the pro truth pledge at pro truth

816

00:40:22,829 --> 00:40:20,260

pledge at org is about and of course I

817

00:40:25,109 --> 00:40:22,839

was reading about the pro truth pledge

818

00:40:28,049 --> 00:40:25,119

in your book your book is called the

819

00:40:29,370 --> 00:40:28,059

truth seekers handbook what can you tell

820

00:40:31,890 --> 00:40:29,380

me about that how long has that been

821

00:40:35,779 --> 00:40:31,900

available it's been available since

822

00:40:38,190 --> 00:40:35,789

November 23rd of last year and the book

823

00:40:40,500 --> 00:40:38,200

basically talks about

824

00:40:42,839 --> 00:40:40,510

why we as human beings believe in lives

825

00:40:44,370 --> 00:40:42,849

you know we think of ourselves as

826

00:40:46,829 --> 00:40:44,380

rational and logical creatures

827

00:40:49,200 --> 00:40:46,839

especially as skeptics among us but the

828

00:40:50,940 --> 00:40:49,210

research shows and this comes from

829

00:40:53,310 --> 00:40:50,950

behavioral science in which one that I'm

830

00:40:56,579 --> 00:40:53,320

an expert that we tend to be driven

831

00:41:00,390 --> 00:40:56,589

strongly by emotions and that results in

832

00:41:02,130 --> 00:41:00,400

us believing in falsehoods and this is

833

00:41:04,470 --> 00:41:02,140

the field of research called cognitive

834

00:41:06,599 --> 00:41:04,480

bias research things like confirmation

835

00:41:08,760 --> 00:41:06,609

bias things like backfire effect and I

836

00:41:10,680 --> 00:41:08,770

can talk about other phenomena but

837

00:41:12,810 --> 00:41:10,690

causes us to believe in falsehoods so

838

00:41:15,210 --> 00:41:12,820

the book helps everyone who cares about

839

00:41:17,280 --> 00:41:15,220

truth and facts address the kind of

840

00:41:20,550 --> 00:41:17,290

cognitive biases that might cause them

841

00:41:23,970 --> 00:41:20,560

to believe in false words and believe me

842

00:41:27,030 --> 00:41:23,980

you know I was a skeptic from when I was

843

00:41:30,540 --> 00:41:27,040

in high school and college I ran as

844

00:41:32,609 --> 00:41:30,550

college club for freethinkers and once I

845

00:41:34,740 --> 00:41:32,619

started researching cognitive biases I

846

00:41:36,690 --> 00:41:34,750

saw how I was falling into them all the

847

00:41:39,120 --> 00:41:36,700

time before I started researching them

848

00:41:41,550 --> 00:41:39,130

so it's for everyone who's a skeptic and

849

00:41:44,069 --> 00:41:41,560

who cares about truth really cares about

850

00:41:46,980 --> 00:41:44,079

truth in facts and also wants to guide

851
00:41:48,720 --> 00:41:46,990
other people and them to orient toward

852
00:41:52,650 --> 00:41:48,730
true facts it has research-based

853
00:41:54,839 --> 00:41:52,660
strategies how we escaped experiments

854
00:41:56,760 --> 00:41:54,849
can guide others into doing so because

855
00:41:59,220 --> 00:41:56,770
let's be honest the fact that there's so

856
00:42:01,200 --> 00:41:59,230
much false true politics out there right

857
00:42:04,980 --> 00:42:01,210
now and fake news shows that the way

858
00:42:06,930 --> 00:42:04,990
we've been doing it so far is wrong and

859
00:42:08,970 --> 00:42:06,940
I noticed there's an interesting series

860
00:42:12,359 --> 00:42:08,980
of chapters in your book sort of based

861
00:42:13,890 --> 00:42:12,369
around when you could use your gut you

862
00:42:16,349 --> 00:42:13,900
know what does your gut tell you we hear

863
00:42:18,630 --> 00:42:16,359

this all the time especially from people

864

00:42:22,500 --> 00:42:18,640

in our area of interest which is the

865

00:42:25,109 --> 00:42:22,510

paranormal believers who who as far as

866

00:42:28,559 --> 00:42:25,119

they are concerned they've already found

867

00:42:32,940 --> 00:42:28,569

the truth they know the truth and we as

868

00:42:35,250 --> 00:42:32,950

skeptics are obviously misguided fools

869

00:42:37,290 --> 00:42:35,260

do you you must know what I'm talking

870

00:42:40,589 --> 00:42:37,300

about when I talk about that sort of

871

00:42:43,440 --> 00:42:40,599

thing of course yes there's these sorts

872

00:42:45,839 --> 00:42:43,450

of conversations all the time and

873

00:42:48,870 --> 00:42:45,849

paranormal is an area you know

874

00:42:51,359 --> 00:42:48,880

genetically modified organisms GMOs as

875

00:42:51,900 --> 00:42:51,369

an area you know climate skepticism as

876
00:42:54,349 --> 00:42:51,910
an area

877
00:42:57,059 --> 00:42:54,359
various sorts of conspiracy theories and

878
00:43:00,029 --> 00:42:57,069
what I find is really important what I

879
00:43:01,740 --> 00:43:00,039
talk about in the book is to describe

880
00:43:04,620 --> 00:43:01,750
and what the research finds is to figure

881
00:43:06,750 --> 00:43:04,630
out the emotions that drive people to

882
00:43:08,609 --> 00:43:06,760
believe in falsehoods because if they

883
00:43:11,130 --> 00:43:08,619
believe in falsehoods things that aren't

884
00:43:13,380 --> 00:43:11,140
real there are some certain emotions

885
00:43:14,730 --> 00:43:13,390
that are they're satisfying there are

886
00:43:17,400 --> 00:43:14,740
certain emotional needs that are being

887
00:43:19,020 --> 00:43:17,410
satisfied by belief in falsehoods and

888
00:43:21,329 --> 00:43:19,030

what you need to do is figure out the

889

00:43:23,190 --> 00:43:21,339

emotions talk about this book how to do

890

00:43:25,380 --> 00:43:23,200

so that causes them to believe in

891

00:43:27,589 --> 00:43:25,390

falsehoods and then show them how they

892

00:43:30,720 --> 00:43:27,599

can satisfy these same emotional needs

893

00:43:32,430 --> 00:43:30,730

through facts and reality and that's

894

00:43:34,079 --> 00:43:32,440

kind of a subtle thing that we as

895

00:43:36,120 --> 00:43:34,089

skeptics really don't practice we

896

00:43:37,950 --> 00:43:36,130

practice just bombarding them over the

897

00:43:40,260 --> 00:43:37,960

head with information logical arguments

898

00:43:42,750 --> 00:43:40,270

and that just doesn't work it causes

899

00:43:44,549 --> 00:43:42,760

backfire they either stick they stuck to

900

00:43:46,380 --> 00:43:44,559

their positions and you know you don't

901
00:43:48,420 --> 00:43:46,390
usually you end up not having a real

902
00:43:50,160 --> 00:43:48,430
conversation so the book talks about

903
00:43:52,289 --> 00:43:50,170
strategic ways of communicating

904
00:43:54,029 --> 00:43:52,299
effectively to people who believe

905
00:43:56,339 --> 00:43:54,039
falsehoods in order to bring them toward

906
00:43:58,279 --> 00:43:56,349
offense that's interesting and I wonder

907
00:44:01,769 --> 00:43:58,289
what would happen if they themselves

908
00:44:03,990 --> 00:44:01,779
people who maybe believed in something

909
00:44:05,370 --> 00:44:04,000
that we would consider to be a delusion

910
00:44:07,079 --> 00:44:05,380
they would read that maybe they would

911
00:44:08,700 --> 00:44:07,089
try to use those arguments against

912
00:44:10,260 --> 00:44:08,710
skeptics who knows but there's an

913
00:44:12,450 --> 00:44:10,270

interesting point that you make in the

914

00:44:14,010 --> 00:44:12,460

book and you quote from a movie which is

915

00:44:17,099 --> 00:44:14,020

a [h__h] of a good movie called a few

916

00:44:19,380 --> 00:44:17,109

good men and that the quote is you can't

917

00:44:21,960 --> 00:44:19,390

handle the truth and I think that's a

918

00:44:24,500 --> 00:44:21,970

very good quote to use because it really

919

00:44:28,170 --> 00:44:24,510

makes the point of your book doesn't it

920

00:44:31,589 --> 00:44:28,180

yes yes it does oh it needs to the fact

921

00:44:33,870 --> 00:44:31,599

that truth is very much an emotional

922

00:44:36,180 --> 00:44:33,880

thing it's the motive and the reason

923

00:44:38,430 --> 00:44:36,190

that people believe it lies because they

924

00:44:41,970 --> 00:44:38,440

can't handle the truth emotionally so

925

00:44:43,799 --> 00:44:41,980

our aspiration a skeptic should be how

926

00:44:46,440 --> 00:44:43,809

to guide them how to guide their

927

00:44:48,089 --> 00:44:46,450

emotions toward believing the facts and

928

00:44:49,710 --> 00:44:48,099

the things that I took that you

929

00:44:52,650 --> 00:44:49,720

mentioned earlier kind of people using

930

00:44:54,150 --> 00:44:52,660

another skeptics great if we if we

931

00:44:56,099 --> 00:44:54,160

believe in falsehoods let them guide

932

00:44:57,000 --> 00:44:56,109

guide us there were the facts I mean I

933

00:44:59,069 --> 00:44:57,010

would love that

934

00:45:02,010 --> 00:44:59,079

the strategies that I talked about in

935

00:45:04,710 --> 00:45:02,020

the book only work for getting people to

936

00:45:05,700 --> 00:45:04,720

believe in the facts in the truth in the

937

00:45:07,890 --> 00:45:05,710

reality it

938

00:45:09,390 --> 00:45:07,900

work - they're not simply persuasion

939

00:45:10,620 --> 00:45:09,400

rhetorical tactics that's not what

940

00:45:12,420 --> 00:45:10,630

they're about this is about

941

00:45:14,640 --> 00:45:12,430

collaborative truth-seeking where you

942

00:45:17,010 --> 00:45:14,650

work with somebody else to figure out

943

00:45:19,890 --> 00:45:17,020

the truth the facts the nature of

944

00:45:21,900 --> 00:45:19,900

reality and that's what the essence of

945

00:45:23,400 --> 00:45:21,910

the book is about now of course you

946

00:45:25,920 --> 00:45:23,410

talked you mentioned briefly before

947

00:45:27,810 --> 00:45:25,930

confirmation bias which all skeptics are

948

00:45:30,660 --> 00:45:27,820

very familiar with that concept but

949

00:45:32,670 --> 00:45:30,670

confirmation bias is amplified

950

00:45:34,950 --> 00:45:32,680

especially in the last 10 years or so

951
00:45:38,040 --> 00:45:34,960
with the filter bubbles we live in now

952
00:45:42,720 --> 00:45:38,050
with things like Facebook and this sort

953
00:45:44,790 --> 00:45:42,730
of thing have you seen a rise in the

954
00:45:46,589 --> 00:45:44,800
general problem of people believing in

955
00:45:50,040 --> 00:45:46,599
falsehoods because of these filter

956
00:45:52,800 --> 00:45:50,050
bubbles absolutely the confirmation bias

957
00:45:55,020 --> 00:45:52,810
is one of the biggest drivers of fake

958
00:45:56,849 --> 00:45:55,030
news and most of politics so the

959
00:46:00,240 --> 00:45:56,859
confirmation bias is a psychological

960
00:46:02,640 --> 00:46:00,250
phenomenon where people look for one and

961
00:46:04,490 --> 00:46:02,650
you look for information with matches

962
00:46:07,230 --> 00:46:04,500
conforms to their beliefs and to

963
00:46:10,589 --> 00:46:07,240

interpret information they get in ways

964

00:46:13,800 --> 00:46:10,599

it matches their beliefs now if you know

965

00:46:16,589 --> 00:46:13,810

previously everyone just had access to

966

00:46:19,410 --> 00:46:16,599

mainstream news prior to the rise of

967

00:46:21,930 --> 00:46:19,420

social media digital media and so they

968

00:46:23,730 --> 00:46:21,940

could still interpret information that

969

00:46:25,200 --> 00:46:23,740

in the ways of match their beliefs but

970

00:46:26,790 --> 00:46:25,210

they couldn't really look for

971

00:46:29,550 --> 00:46:26,800

information that matched their beliefs

972

00:46:31,670 --> 00:46:29,560

wasn't readily accessible now with the

973

00:46:34,500 --> 00:46:31,680

rise of digital media and social media

974

00:46:37,140 --> 00:46:34,510

there are various filter bubbles where

975

00:46:38,880 --> 00:46:37,150

people can go to and specifically only

976
00:46:41,370 --> 00:46:38,890
look for information that matches their

977
00:46:43,380 --> 00:46:41,380
beliefs look at the only biased sources

978
00:46:45,859 --> 00:46:43,390
including you know sources around by

979
00:46:48,930 --> 00:46:45,869
Russia today and so on completely fake

980
00:46:51,900 --> 00:46:48,940
fake information fake news that matches

981
00:46:54,660 --> 00:46:51,910
their gut intuitions and the people who

982
00:46:57,660 --> 00:46:54,670
try to manipulate us know that and they

983
00:46:59,339 --> 00:46:57,670
create these sources they play into

984
00:47:01,500 --> 00:46:59,349
people's confirmation bias and that's

985
00:47:04,170 --> 00:47:01,510
kind of one of the things that the pro

986
00:47:06,810 --> 00:47:04,180
truth pledge is meant to address it has

987
00:47:08,310 --> 00:47:06,820
a large variety of strategies so the pro

988
00:47:10,890 --> 00:47:08,320

Truth pledge approach you've pledged

989

00:47:13,980 --> 00:47:10,900

that org gets people to commit to

990

00:47:15,930 --> 00:47:13,990

behaviors that are aimed to address the

991

00:47:18,089 --> 00:47:15,940

confirmation bias and various other

992

00:47:19,559 --> 00:47:18,099

biases that cause us to believe in

993

00:47:20,969 --> 00:47:19,569

falsehoods well he is

994

00:47:22,709 --> 00:47:20,979

it's absolutely right and reading

995

00:47:24,449 --> 00:47:22,719

through the book all these points are

996

00:47:27,660 --> 00:47:24,459

very interesting especially for skeptic

997

00:47:30,019 --> 00:47:27,670

especially for someone like me who on

998

00:47:32,789 --> 00:47:30,029

the face of it you know I'm trying to

999

00:47:34,469 --> 00:47:32,799

change people's minds or put the truth

1000

00:47:36,120 --> 00:47:34,479

out there the truth as far as I can

1001

00:47:38,130 --> 00:47:36,130

understand it so this is a very

1002

00:47:40,589 --> 00:47:38,140

interesting overview of what the truth

1003

00:47:42,870 --> 00:47:40,599

is and how to think about it the book

1004

00:47:46,049 --> 00:47:42,880

folks is called the truth seekers

1005

00:47:49,949 --> 00:47:46,059

handbook bled where can people find that

1006

00:47:52,920 --> 00:47:49,959

book they can find it on Amazon so if

1007

00:47:54,329 --> 00:47:52,930

they are participants of Amazon smile

1008

00:47:56,910 --> 00:47:54,339

where are they donate to the nations

1009

00:47:58,319 --> 00:47:56,920

they can go to smelled at amazon.com but

1010

00:48:00,509 --> 00:47:58,329

in the truth seekers handbook a

1011

00:48:03,390 --> 00:48:00,519

science-based guide and they should find

1012

00:48:05,549 --> 00:48:03,400

it right there they can also go to the

1013

00:48:08,640 --> 00:48:05,559

approach of pledge website at pro truth

1014

00:48:10,439 --> 00:48:08,650

pledge that work find it through there

1015

00:48:11,729 --> 00:48:10,449

and they can find it on the intentional

1016

00:48:14,099 --> 00:48:11,739

insights website the intentional

1017

00:48:15,989 --> 00:48:14,109

insights is nonprofit that runs the pro

1018

00:48:18,029 --> 00:48:15,999

truth pledge and other true for lan

1019

00:48:21,269 --> 00:48:18,039

subjects intentional insights is

1020

00:48:23,849 --> 00:48:21,279

intentional inside Stork bugs I'll link

1021

00:48:25,499 --> 00:48:23,859

to all those URLs on this week's show

1022

00:48:27,689 --> 00:48:25,509

notes so you can quickly look at that

1023

00:48:30,989 --> 00:48:27,699

and I also link to a couple of videos I

1024

00:48:32,999 --> 00:48:30,999

noticed gleb was kind enough to send me

1025

00:48:35,370 --> 00:48:33,009

where you can see him on action on

1026

00:48:37,979 --> 00:48:35,380

various news networks talking about

1027

00:48:40,079 --> 00:48:37,989

politics and the truth well thank you

1028

00:48:41,849 --> 00:48:40,089

very much for your time this morning or

1029

00:48:44,969 --> 00:48:41,859

this afternoon where you are in Columbus

1030

00:48:48,239 --> 00:48:44,979

Ohio and maybe we can chat again one day

1031

00:48:49,859 --> 00:48:48,249

about some more truth it will be

1032

00:48:51,779 --> 00:48:49,869

wonderful and I would encourage you

1033

00:48:53,189 --> 00:48:51,789

yourself as a public figure to consider

1034

00:48:55,319 --> 00:48:53,199

signing up to the purchase pledge

1035

00:48:57,959 --> 00:48:55,329

because you're already practicing these

1036

00:48:59,430 --> 00:48:57,969

behaviors and the more people make a

1037

00:49:02,009 --> 00:48:59,440

public commitment especially public

1038

00:49:04,140 --> 00:49:02,019

figures like yourself the more likely we

1039

00:49:06,239 --> 00:49:04,150

are to sway the political and public

1040

00:49:08,640 --> 00:49:06,249

conversation be more oriented toward

1041

00:49:10,829 --> 00:49:08,650

shufen facts I better head over there

1042

00:49:13,559 --> 00:49:10,839

straight away glenn Sabarsky thank you

1043

00:49:17,040 --> 00:49:13,569

very much thanks so much Richard was a

1044

00:49:36,739 --> 00:49:25,580

[Music]

1045

00:49:41,989 --> 00:49:38,999

thank you for listening to the skeptics

1046

00:49:43,739 --> 00:49:41,999

oh now I don't know if you can hear it

1047

00:49:45,660 --> 00:49:43,749

hopefully not I've got all the windows

1048

00:49:49,470 --> 00:49:45,670

shut but I've got aircraft coming

1049

00:49:51,690 --> 00:49:49,480

overhead now it's weird often I will

1050

00:49:54,239 --> 00:49:51,700

record the the voiceover bits for the

1051
00:49:59,069 --> 00:49:54,249
skeptical zone on a Sunday morning here in

1052
00:50:02,519 --> 00:49:59,079
in Sydney and Sunday morning is usually

1053
00:50:04,200 --> 00:50:02,529
within certain hours the time of this

1054
00:50:06,440 --> 00:50:04,210
corridor being used the one that goes

1055
00:50:09,720 --> 00:50:06,450
over my house for Sydney Airport

1056
00:50:11,400 --> 00:50:09,730
sometimes I get jets coming over every

1057
00:50:14,489 --> 00:50:11,410
two minutes you can imagine what that's

1058
00:50:18,960 --> 00:50:14,499
like for recording but it's a great case

1059
00:50:20,759 --> 00:50:18,970
of something like confirmation bias or

1060
00:50:22,440 --> 00:50:20,769
remembering the hits and forgetting the

1061
00:50:25,079 --> 00:50:22,450
misses in other words while I'm

1062
00:50:26,849 --> 00:50:25,089
preparing the show writing something or

1063
00:50:29,430 --> 00:50:26,859

putting the web page together or doing

1064

00:50:31,249 --> 00:50:29,440

some edits around the same time I don't

1065

00:50:33,239 --> 00:50:31,259

notice any planes at all of course I'm

1066

00:50:35,430 --> 00:50:33,249

occupied doing something else but as

1067

00:50:37,349 --> 00:50:35,440

soon as I turn the microphone on and I

1068

00:50:40,470 --> 00:50:37,359

say hello and welcome to his room here

1069

00:50:42,690 --> 00:50:40,480

comes a plane yeah I think it's a really

1070

00:50:44,160 --> 00:50:42,700

good example of remembering the hits and

1071

00:50:46,710 --> 00:50:44,170

forgetting the misses which is something

1072

00:50:49,549 --> 00:50:46,720

we explore often when we think about

1073

00:50:52,950 --> 00:50:49,559

psychic research and people who go to

1074

00:50:54,569 --> 00:50:52,960

get reading the psychic readings whether

1075

00:50:54,989 --> 00:50:54,579

the psychic can shatter them for half an

1076
00:50:57,599 --> 00:50:54,999
hour

1077
00:50:59,729 --> 00:50:57,609
tell them many many many many many

1078
00:51:02,640 --> 00:50:59,739
things but only two or three or four

1079
00:51:04,410 --> 00:51:02,650
will make sense and those are the points

1080
00:51:07,769 --> 00:51:04,420
people remember it's all very

1081
00:51:10,229 --> 00:51:07,779
interesting fact if I listen yes he

1082
00:51:12,089 --> 00:51:10,239
comes another one now normally I'd stop

1083
00:51:12,599 --> 00:51:12,099
recording but this week I say ah what

1084
00:51:16,710 --> 00:51:12,609
the hell

1085
00:51:18,989 --> 00:51:16,720
let the planes fly over well that's a

1086
00:51:20,700 --> 00:51:18,999
big one I wonder what that is I've got

1087
00:51:22,620 --> 00:51:20,710
it you can go to this web page I

1088
00:51:24,390 --> 00:51:22,630

sometimes use flight radar I think it's

1089

00:51:29,759 --> 00:51:24,400

called and I can actually see the planes

1090

00:51:33,359 --> 00:51:29,769

flying over by my house now well it

1091

00:51:34,049 --> 00:51:33,369

amuses the cats coming up on next week's

1092

00:51:36,059 --> 00:51:34,059

show

1093

00:51:38,460 --> 00:51:36,069

ah more trivia quiz in fact the last

1094

00:51:41,750 --> 00:51:38,470

round as you heard before and it will be

1095

00:51:48,200 --> 00:51:44,330

I think that one's coming in from Hong

1096

00:51:49,940 --> 00:51:48,210

Kong I don't know but until then this is

1097

00:51:52,310 --> 00:51:49,950

Richard Saunders a couple of cats and

1098

00:51:58,790 --> 00:51:52,320

lots of airplanes signing off from

1099

00:52:01,790 --> 00:51:58,800

Sydney Australia you've been listening

1100

00:52:06,560 --> 00:52:01,800

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00:52:33,170 --> 00:52:30,800
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1111
00:52:35,300 --> 00:52:33,180
reviews and opinions expressed on the

1112
00:52:37,640 --> 00:52:35,310
skeptic zone are not necessarily those

1113
00:52:39,440 --> 00:52:37,650

of Australian skeptics or any other

1114

00:52:48,479 --> 00:52:39,450

sceptical organisation

1115

00:53:03,249 --> 00:53:00,910

hmm what is it look a scratch you want

1116

00:53:04,660 --> 00:53:03,259

to do the webpage this week do you know

1117

00:53:06,849 --> 00:53:04,670

you just wouldn't do the editing for the