

**THE  
SKEPTIC  
ZONE  
PODCAST**

[www.skepticzone.tv](http://www.skepticzone.tv)

1  
00:00:11,910 --> 00:00:09,110  
welcome to the skeptic zone the podcast

2  
00:00:26,010 --> 00:00:11,920  
from Australia for science and reason

3  
00:00:33,640 --> 00:00:28,839  
hello and welcome to the skeptic Zone

4  
00:00:37,030 --> 00:00:33,650  
podcast episode number 571 for the 22nd

5  
00:00:39,549 --> 00:00:37,040  
of September 2019 Richardson is here

6  
00:00:43,180 --> 00:00:39,559  
coming to you from one of the famous San

7  
00:00:46,630 --> 00:00:43,190  
Francisco trams streetcars I'm on the F

8  
00:00:48,970 --> 00:00:46,640  
line F F I think it stands for fish

9  
00:00:52,150 --> 00:00:48,980  
because eventually this will take me

10  
00:00:54,939 --> 00:00:52,160  
down to Fisherman's Wharf coming up on

11  
00:00:57,280 --> 00:00:54,949  
this week's show I speak to author

12  
00:01:02,740 --> 00:00:57,290  
Bailey Harris she's only 30 she's

13  
00:01:04,479 --> 00:01:02,750

written three books round Stardust find

14

00:01:06,260 --> 00:01:04,489

out more coming up at the top of the

15

00:01:08,210 --> 00:01:06,270

show

16

00:01:09,980 --> 00:01:08,220

following that I catch up with susan

17

00:01:13,880 --> 00:01:09,990

gerbic from guerrilla skepticism on

18

00:01:17,090 --> 00:01:13,890

wikipedia as we have a tour of the

19

00:01:17,810 --> 00:01:17,100

famous Winchester Mystery House in San

20

00:01:21,200 --> 00:01:17,820

Jose

21

00:01:23,480 --> 00:01:21,210

a bizarre rambling mansion built in the

22

00:01:25,730 --> 00:01:23,490

Victorian times

23

00:01:28,249 --> 00:01:25,740

after that it's Michelle Franklin life

24

00:01:32,730 --> 00:01:28,259

is wild Michelle's going to ask us the

25

00:01:37,980 --> 00:01:35,039

then to round off the show once again

26

00:01:40,410 --> 00:01:37,990

i'm with susan gerbic as i have a chat

27

00:01:43,530 --> 00:01:40,420

to her about the work she does at

28

00:01:44,810 --> 00:01:43,540

guerrilla skepticism and we do this in

29

00:01:47,630 --> 00:01:44,820

the wall

30

00:01:49,920 --> 00:01:47,640

our office find out what goes on behind

31

00:01:51,810 --> 00:01:49,930

the scenes

32

00:01:53,040 --> 00:01:51,820

well that's enough of me at the moment I

33

00:01:55,530 --> 00:01:53,050

don't think it's too long refill my

34

00:01:57,410 --> 00:01:55,540

stock we're gonna jump off see if I can

35

00:02:00,630 --> 00:01:57,420

find some nice fish to fry

36

00:02:04,190 --> 00:02:00,640

pull up well I do that I hope you enjoy

37

00:02:24,610 --> 00:02:09,540

[Music]

38

00:02:27,310 --> 00:02:24,620

well folks only a couple of weeks ago I

39

00:02:29,110 --> 00:02:27,320

was a dragon corn in Atlanta Georgia and

40

00:02:31,600 --> 00:02:29,120

what a fabulous time I had I met all

41

00:02:34,810 --> 00:02:31,610

sorts of new and interesting people and

42

00:02:37,420 --> 00:02:34,820

one of the most interesting people I met

43

00:02:40,930 --> 00:02:37,430

happened to be sitting next to me and on

44

00:02:42,010 --> 00:02:40,940

the opening panel at the skeptic it was

45

00:02:45,130 --> 00:02:42,020

an author

46

00:02:48,250 --> 00:02:45,140

not just any author a 13 year old author

47

00:02:50,350 --> 00:02:48,260

by the name of Bailey Harris and I'm

48

00:02:53,470 --> 00:02:50,360

delighted to say that joining me now all

49

00:02:57,730 --> 00:02:53,480

the way from Salt Lake City in Utah it's

50

00:03:00,640 --> 00:02:57,740

Bailey Harris I'm doing really well it's

51  
00:03:03,100 --> 00:03:00,650  
fabulous to catch up with you again for

52  
00:03:04,600 --> 00:03:03,110  
the interview and it was such a treat

53  
00:03:07,480 --> 00:03:04,610  
for me to meet you and I was so

54  
00:03:10,960 --> 00:03:07,490  
surprised to discover that you were an

55  
00:03:12,370 --> 00:03:10,970  
author sitting next to me and lucky me

56  
00:03:15,370 --> 00:03:12,380  
I've got a copy of your books right

57  
00:03:17,860 --> 00:03:15,380  
beside me let's talk about first of all

58  
00:03:20,259 --> 00:03:17,870  
the title of your very first book which

59  
00:03:21,820 --> 00:03:20,269  
is a pretty important word because that

60  
00:03:22,240 --> 00:03:21,830  
really affects all the rest of your

61  
00:03:25,990 --> 00:03:22,250  
books

62  
00:03:27,430 --> 00:03:26,000  
it's called Stardust Stardust let's talk

63  
00:03:29,320 --> 00:03:27,440

about that first and we can talk about

64

00:03:32,680 --> 00:03:29,330

some other things where did this name

65

00:03:35,380 --> 00:03:32,690

star dust come from so what I was

66

00:03:39,490 --> 00:03:35,390

watching cosmos was my family when I was

67

00:03:41,740 --> 00:03:39,500

eight years old I was Neil deGrasse

68

00:03:43,720 --> 00:03:41,750

Tyson said our bodies were made out of

69

00:03:46,780 --> 00:03:43,730

Stardust and when I was eight years old

70

00:03:52,030 --> 00:03:46,790

this was very fascinating for me so I

71

00:03:54,039 --> 00:03:52,040

ran upstairs and started to type my

72

00:03:57,940 --> 00:03:54,049

first book title was actually the book

73

00:04:00,070 --> 00:03:57,950

of truth and then I changed it it's very

74

00:04:04,479 --> 00:04:00,080

similar to like the Book of Mormon I

75

00:04:06,970 --> 00:04:04,489

thought that would be funny so but we

76

00:04:09,340 --> 00:04:06,980

changed it to my name is Stardust I

77

00:04:13,199 --> 00:04:09,350

thought it was it was just gonna be a

78

00:04:15,580 --> 00:04:13,209

great title for it because Stardust just

79

00:04:20,050 --> 00:04:15,590

that's what we're made out of so

80

00:04:21,879 --> 00:04:20,060

and yeah that's that's very true and of

81

00:04:25,930 --> 00:04:21,889

course now I'm thinking back to when I

82

00:04:28,120 --> 00:04:25,940

was 15 and the very first series of

83

00:04:31,900 --> 00:04:28,130

cosmos came out with Carl Sagan and he

84

00:04:35,140 --> 00:04:31,910

used to use the term star stuff I think

85

00:04:37,840 --> 00:04:35,150

he used a lot of the time yeah he used

86

00:04:42,100 --> 00:04:37,850

that as well no the grass Tyson he used

87

00:04:44,260 --> 00:04:42,110

our stuff but we did it start us I love

88

00:04:46,420 --> 00:04:44,270

it I love it it's it's such a it's

89

00:04:49,060 --> 00:04:46,430

almost poetic to say that we're made out

90

00:04:50,950 --> 00:04:49,070

of Stardust that's fabulous in it and it

91

00:04:53,440 --> 00:04:50,960

turns out to be a character in your book

92

00:04:56,650 --> 00:04:53,450

but let's talk about let's talk about

93

00:04:59,320 --> 00:04:56,660

the fun we had at DragonCon you join me

94

00:05:01,060 --> 00:04:59,330

in the Dragon Con Parade I was dressed

95

00:05:03,969 --> 00:05:01,070

as a Greek philosopher but you addressed

96

00:05:09,040 --> 00:05:03,979

us something else yeah I mean my family

97

00:05:10,750 --> 00:05:09,050

except my one brother didn't go but the

98

00:05:14,200 --> 00:05:10,760

rest of my family went and we dressed as

99

00:05:17,379 --> 00:05:14,210

a scooby doo bunch we jested them

100

00:05:19,719 --> 00:05:17,389

because they're skeptical group and they

101  
00:05:23,230 --> 00:05:19,729  
always find the real person behind the

102  
00:05:24,700 --> 00:05:23,240  
mask so that was a really really fun I

103  
00:05:26,800 --> 00:05:24,710  
had so much fun there

104  
00:05:29,350 --> 00:05:26,810  
especially because you were there and I

105  
00:05:31,570 --> 00:05:29,360  
I met so many cool people at this

106  
00:05:33,219 --> 00:05:31,580  
parading it was just so awesome it is

107  
00:05:35,260 --> 00:05:33,229  
great to go to these things because of

108  
00:05:37,210 --> 00:05:35,270  
the people you meet it's good I think

109  
00:05:39,580 --> 00:05:37,220  
it's important to talk to the crowds who

110  
00:05:41,740 --> 00:05:39,590  
come along and give presentations but

111  
00:05:45,070 --> 00:05:41,750  
also that the wonderful people you meet

112  
00:05:50,110 --> 00:05:45,080  
it's certainly a highlight for me but

113  
00:05:52,000 --> 00:05:50,120

you're you're only 13 and you've written

114

00:05:55,180 --> 00:05:52,010

three books already that's impressive I

115

00:05:56,710 --> 00:05:55,190

was I was I think I was 21 when I

116

00:05:59,379 --> 00:05:56,720

actually had a book come out and that

117

00:06:03,360 --> 00:05:59,389

was very exciting what was it like to

118

00:06:08,129 --> 00:06:03,370

see a copy of your very first book I I

119

00:06:11,200 --> 00:06:08,139

still can't realize that I have had

120

00:06:14,920 --> 00:06:11,210

written like so many books like it just

121

00:06:17,980 --> 00:06:14,930

it's unrealistic for me for me I think

122

00:06:20,950 --> 00:06:17,990

it's really cool that you do so many

123

00:06:22,170 --> 00:06:20,960

origami things like like those origami

124

00:06:24,180 --> 00:06:22,180

earrings I

125

00:06:29,160 --> 00:06:24,190

almost been wearing everyday they're so

126

00:06:31,110 --> 00:06:29,170

cool thank you very much that's nice to

127

00:06:33,390 --> 00:06:31,120

know that's nice no yes but it is

128

00:06:35,520 --> 00:06:33,400

exciting when you can see your first

129

00:06:37,530 --> 00:06:35,530

book in print I remember when when I saw

130

00:06:40,560 --> 00:06:37,540

my first book it was I couldn't believe

131

00:06:43,980 --> 00:06:40,570

it either and my dad he was so excited

132

00:06:45,540 --> 00:06:43,990

to to see that one of his sons had a

133

00:06:48,470 --> 00:06:45,550

published book oh it was very exciting

134

00:06:54,270 --> 00:06:48,480

time and so I know what you're feeling

135

00:06:55,200 --> 00:06:54,280

yeah yeah it's very unrealistic it

136

00:06:58,470 --> 00:06:55,210

certainly is

137

00:07:00,300 --> 00:06:58,480

now folks the book is called the first

138

00:07:04,050 --> 00:07:00,310

book it's called my name is Stardust and

139

00:07:05,910 --> 00:07:04,060

it's such a wonderful tale wonderful

140

00:07:07,650 --> 00:07:05,920

journey and it really is about the

141

00:07:08,480 --> 00:07:07,660

history of the universe in a way isn't

142

00:07:16,080 --> 00:07:08,490

it

143

00:07:18,330 --> 00:07:16,090

you really good ways like the

144

00:07:19,980 --> 00:07:18,340

single-celled organisms in the first

145

00:07:22,680 --> 00:07:19,990

book my name is starters it really

146

00:07:25,590 --> 00:07:22,690

teaches you the way of life you know

147

00:07:29,040 --> 00:07:25,600

especially with kids it's a good example

148

00:07:31,560 --> 00:07:29,050

for that about all the stars in the

149

00:07:33,990 --> 00:07:31,570

galaxy the first one really describes

150

00:07:36,390 --> 00:07:34,000

everything the second one is more about

151  
00:07:40,410 --> 00:07:36,400  
more about just the solar system and the

152  
00:07:42,090 --> 00:07:40,420  
third one's about just evolution so yes

153  
00:07:44,700 --> 00:07:42,100  
the second book is called Stardust

154  
00:07:46,020 --> 00:07:44,710  
explores the solar system and then we

155  
00:07:49,800 --> 00:07:46,030  
have the third book which is called

156  
00:07:51,900 --> 00:07:49,810  
Stardust explores earth wanders it it's

157  
00:07:54,420 --> 00:07:51,910  
a very wide range of topics you must

158  
00:07:56,940 --> 00:07:54,430  
find it when you're writing these books

159  
00:08:00,030 --> 00:07:56,950  
so interesting to discover all this

160  
00:08:03,420 --> 00:08:00,040  
history yeah especially when I was

161  
00:08:05,880 --> 00:08:03,430  
writing with my dad about the solar

162  
00:08:08,430 --> 00:08:05,890  
system one I started getting the chills

163  
00:08:11,100 --> 00:08:08,440

learning about the other planets it was

164

00:08:13,470 --> 00:08:11,110

it's just so crazy to think that there

165

00:08:16,590 --> 00:08:13,480

are so many other things besides us out

166

00:08:20,460 --> 00:08:16,600

there you know and when I was looking up

167

00:08:23,940 --> 00:08:20,470

these many things like how Jupiter has

168

00:08:25,860 --> 00:08:23,950

all these things I it was just so it was

169

00:08:29,550 --> 00:08:25,870

amazing just looking up all these facts

170

00:08:31,440 --> 00:08:29,560

I think it's it certainly is that's one

171

00:08:33,029 --> 00:08:31,450

of the things that I love doing most of

172

00:08:35,430 --> 00:08:33,039

all is discovering new things and

173

00:08:38,370 --> 00:08:35,440

wonders about the solar system and the

174

00:08:40,710 --> 00:08:38,380

universe itself but no I guess you would

175

00:08:43,110 --> 00:08:40,720

consider yourself to be somewhat of an

176

00:08:46,860 --> 00:08:43,120

an activist what are you passionate

177

00:08:49,820 --> 00:08:46,870

about and why I'm mostly really

178

00:08:53,040 --> 00:08:49,830

passionate about science education

179

00:08:56,490 --> 00:08:53,050

equality and atheism it's a really big

180

00:08:59,130 --> 00:08:56,500

part for me I feel that LGBTQ rights and

181

00:09:02,010 --> 00:08:59,140

women's rights are under attack and it's

182

00:09:04,980 --> 00:09:02,020

important for us to fight for these many

183

00:09:07,950 --> 00:09:04,990

rights it's really important as also

184

00:09:13,530 --> 00:09:07,960

climate change teaching children the

185

00:09:16,410 --> 00:09:13,540

scientific method atheism which is like

186

00:09:17,820 --> 00:09:16,420

religion is the main thing in our world

187

00:09:19,770 --> 00:09:17,830

fighting against science education

188

00:09:21,720 --> 00:09:19,780

inequality we really need to fight for

189

00:09:23,850 --> 00:09:21,730

that as well fighting for science

190

00:09:25,380 --> 00:09:23,860

education I like where your heart is

191

00:09:27,090 --> 00:09:25,390

that that's where my heart is that I've

192

00:09:30,030 --> 00:09:27,100

been fighting for science education for

193

00:09:33,630 --> 00:09:30,040

a long time and in in my case I found

194

00:09:37,230 --> 00:09:33,640

that the the interest that skepticism

195

00:09:39,480 --> 00:09:37,240

has you know UFOs and monsters and ESP

196

00:09:41,700 --> 00:09:39,490

and people reading people's minds is a

197

00:09:43,830 --> 00:09:41,710

wonderful way to introduce people into

198

00:09:44,970 --> 00:09:43,840

critically looking at things and

199

00:09:47,640 --> 00:09:44,980

exploring science

200

00:09:53,850 --> 00:09:47,650

well maybe Stardust could look at ESP in

201  
00:09:56,220 --> 00:09:53,860  
psychics one day I wonder that would be

202  
00:10:00,720 --> 00:09:56,230  
funny but what do you think is next for

203  
00:10:03,510 --> 00:10:00,730  
you I think I will honestly continue

204  
00:10:06,300 --> 00:10:03,520  
activism I'm speaking with Richard

205  
00:10:09,480 --> 00:10:06,310  
Dawkins and many others at saikhan in

206  
00:10:13,370 --> 00:10:09,490  
Las Vegas in October and I'll be doing

207  
00:10:16,860 --> 00:10:13,380  
that I think I will continue with

208  
00:10:19,710 --> 00:10:16,870  
evolution education gain based on the

209  
00:10:24,179 --> 00:10:19,720  
latest book in 2019 I'm going to me

210  
00:10:27,929 --> 00:10:24,189  
a evolution game I I think that's where

211  
00:10:30,059 --> 00:10:27,939  
I'm going so far so well and and school

212  
00:10:34,079 --> 00:10:30,069  
at the same time right yes definitely

213  
00:10:36,179 --> 00:10:34,089

school definitely question there I don't

214

00:10:39,329 --> 00:10:36,189

know how you find the time now Bailey

215

00:10:43,259 --> 00:10:39,339

where can people get a copy of your book

216

00:10:45,420 --> 00:10:43,269

for themselves start as science calm

217

00:10:46,679 --> 00:10:45,430

there we are folks that's an easy thing

218

00:10:48,420 --> 00:10:46,689

to remember and I'll put it in this

219

00:10:51,600 --> 00:10:48,430

week's show notes head for Stardust

220

00:10:54,720 --> 00:10:51,610

science one word.com you can find out

221

00:10:56,429 --> 00:10:54,730

all about these wonderful books and now

222

00:10:58,679 --> 00:10:56,439

I think we're in for a special treat I

223

00:11:01,829 --> 00:10:58,689

think I hope that you might be able to

224

00:11:05,400 --> 00:11:01,839

read us your very first book oh yeah I

225

00:11:15,080 --> 00:11:05,410

definitely will be I'm going to just

226

00:11:19,500 --> 00:11:17,880

hello everyone my name is Cyrus it's

227

00:11:21,510 --> 00:11:19,510

nice to meet you do you know what earth

228

00:11:24,170 --> 00:11:21,520

is made of you know what you are made of

229

00:11:26,700 --> 00:11:24,180

well if not the today is your lucky day

230

00:11:28,620 --> 00:11:26,710

throughout the history of our universe

231

00:11:30,990 --> 00:11:28,630

countless building the Stars have formed

232

00:11:34,470 --> 00:11:31,000

and then exploded we mean tiny specks of

233

00:11:36,840 --> 00:11:34,480

dust all over space about 4.6 billion

234

00:11:40,590 --> 00:11:36,850

years ago dust pursue some of those the

235

00:11:43,050 --> 00:11:40,600

stars exploded and cube together to make

236

00:11:50,520 --> 00:11:43,060

up our solar system our solar system is

237

00:11:52,290 --> 00:11:50,530

made of Stardust there are more than 100

238

00:11:54,420 --> 00:11:52,300

billion galaxies in our universe and

239

00:11:57,240 --> 00:11:54,430

there are hundreds of billions of stars

240

00:11:58,920 --> 00:11:57,250

in each galaxy there are more stars in

241

00:12:02,340 --> 00:11:58,930

our universe than there are grains of

242

00:12:03,690 --> 00:12:02,350

sand on earth our Sun is one of the one

243

00:12:06,960 --> 00:12:03,700

of those buildings and building the

244

00:12:08,780 --> 00:12:06,970

stars our Sun is made of Stardust there

245

00:12:11,820 --> 00:12:08,790

are eight planets in our solar system

246

00:12:14,460 --> 00:12:11,830

the four inner planets are Mercury Venus

247

00:12:16,590 --> 00:12:14,470

Earth and Mars the outer planets are

248

00:12:19,530 --> 00:12:16,600

called gas giants there are Jupiter

249

00:12:22,440 --> 00:12:19,540

Saturn Uranus and Neptune the planets

250

00:12:24,810 --> 00:12:22,450

are made of Stardust earth looks like a

251

00:12:27,540 --> 00:12:24,820

little blue bar when you look at ad it

252

00:12:29,940 --> 00:12:27,550

from far away space it is so beautiful

253

00:12:33,090 --> 00:12:29,950

earth isn't made of Stardust as well

254

00:12:38,140 --> 00:12:36,070

millions of years ago earth long life

255

00:12:40,780 --> 00:12:38,150

and my prepared beginning with simple

256

00:12:43,210 --> 00:12:40,790

single-celled organisms those organisms

257

00:12:44,680 --> 00:12:43,220

eventually evolved into all the plants

258

00:12:46,990 --> 00:12:44,690

and animals that we see today

259

00:12:49,870 --> 00:12:47,000

those single-celled ancestors were made

260

00:12:52,060 --> 00:12:49,880

to start us GE Lake is one of my

261

00:12:55,920 --> 00:12:52,070

favorite ancient creatures teacher Li

262

00:12:58,930 --> 00:12:55,930

who lived about 375 million years ago

263

00:13:02,170 --> 00:12:58,940

took the leap was a fish with scales and

264

00:13:05,170 --> 00:13:02,180

gills but also had had response ribs

265

00:13:07,120 --> 00:13:05,180

lungs and a neck teeth to Lake his rig

266

00:13:09,220 --> 00:13:07,130

could raise its body up out of the

267

00:13:11,320 --> 00:13:09,230

shallow water where it lived fossils

268

00:13:13,960 --> 00:13:11,330

like teeth see Lake shows us how fish

269

00:13:16,240 --> 00:13:13,970

evolved into animals that welcome land

270

00:13:18,610 --> 00:13:16,250

like crocodiles keep to eat with me to

271

00:13:21,040 --> 00:13:18,620

stir us dinosaurs lived on earth

272

00:13:23,160 --> 00:13:21,050

millions of years ago my favorite

273

00:13:25,630 --> 00:13:23,170

dinosaur is the Brachiosaurus

274

00:13:27,519 --> 00:13:25,640

Brachiosaurus was so tall that it could

275

00:13:29,200 --> 00:13:27,529

eat the leaves from the top of very high

276

00:13:31,150 --> 00:13:29,210

trees but looked a little strange

277

00:13:33,280 --> 00:13:31,160

because its front legs were longer than

278

00:13:35,190 --> 00:13:33,290

its back legs but that is one of the

279

00:13:38,170 --> 00:13:35,200

reasons why it's my favorite

280

00:13:41,470 --> 00:13:38,180

Brachiosaurus was 85 feet long and

281

00:13:45,430 --> 00:13:41,480

weighed 40 tons that's heavier than 5

282

00:13:49,160 --> 00:13:45,440

elephants Brachiosaurus was made of lots

283

00:13:55,490 --> 00:13:52,790

around 65 million years ago soon after

284

00:13:58,450 --> 00:13:55,500

dinosaurs became extinct they lived a

285

00:14:00,970 --> 00:13:58,460

small mammal called purgatory purgatory

286

00:14:04,070 --> 00:14:00,980

was about the size of a rat or mouse

287

00:14:05,930 --> 00:14:04,080

humans did not exist yet most mammals at

288

00:14:08,389 --> 00:14:05,940

the time were very small like preview

289

00:14:09,889 --> 00:14:08,399

tours those early nerves evolved into

290

00:14:12,320 --> 00:14:09,899

all the later kinds of animals

291

00:14:14,690 --> 00:14:12,330

everything from bats to us primates like

292

00:14:15,160 --> 00:14:14,700

monkeys and apes for Joris was made to

293

00:14:17,240 --> 00:14:15,170

stars

294

00:14:20,030 --> 00:14:17,250

he an acquaintance of John there's a

295

00:14:22,310 --> 00:14:20,040

long time ago of pixies and fairies just

296

00:14:24,829 --> 00:14:22,320

kidding there's no evidence of real

297

00:14:30,500 --> 00:14:24,839

unicorn species or phrase but they were

298

00:14:32,329 --> 00:14:30,510

real they was me made the Stardust Lucy

299

00:14:34,130 --> 00:14:32,339

was one of the first eight black animals

300

00:14:37,490 --> 00:14:34,140

that walked upright much like we humans

301  
00:14:39,680 --> 00:14:37,500  
do now shield about 3.2 million years

302  
00:14:43,550 --> 00:14:39,690  
ago in Africa where her fossil bones

303  
00:14:46,310 --> 00:14:43,560  
were found in 1974 Lucy was made of

304  
00:14:47,840 --> 00:14:46,320  
Stardust I was born nine years ago and

305  
00:14:50,720 --> 00:14:47,850  
I'm growing bigger and bigger each year

306  
00:14:52,970 --> 00:14:50,730  
I love this team dance and paint and I

307  
00:14:58,480 --> 00:14:52,980  
made the started in so are you

308  
00:15:01,879 --> 00:14:58,490  
[Music]

309  
00:15:04,160 --> 00:15:01,889  
that is my name is Sturgis my first book

310  
00:15:05,900 --> 00:15:04,170  
well you know what Bailey is you are

311  
00:15:08,210 --> 00:15:05,910  
reading that I was actually following

312  
00:15:10,549 --> 00:15:08,220  
along with the book in front of me and I

313  
00:15:13,429 --> 00:15:10,559

must say folks that it's full of really

314

00:15:16,160 --> 00:15:13,439

wonderful rich illustrations has

315

00:15:19,220 --> 00:15:16,170

beautifully done thank you so much thank

316

00:15:20,629 --> 00:15:19,230

you the whole book is is great and the

317

00:15:23,660 --> 00:15:20,639

follow-up books are really good too so

318

00:15:25,249 --> 00:15:23,670

folks if you've got some kids who are

319

00:15:27,549 --> 00:15:25,259

wondering about the world wondering

320

00:15:30,290 --> 00:15:27,559

about the universe about science I think

321

00:15:31,999 --> 00:15:30,300

my name is Stardust is a wonderful

322

00:16:03,400 --> 00:15:32,009

introduction again you can get all that

323

00:16:16,169 --> 00:16:13,639

[Music]

324

00:16:18,329 --> 00:16:16,179

are you looking for a science-based

325

00:16:20,699 --> 00:16:18,339

medical podcast to answer all your

326

00:16:23,129 --> 00:16:20,709

questions about health check out the

327

00:16:25,229 --> 00:16:23,139

body of evidence whether you're curious

328

00:16:28,859 --> 00:16:25,239

about the potential benefits of omega-3s

329

00:16:30,509 --> 00:16:28,869

or the potential risks of vaping we take

330

00:16:32,699 --> 00:16:30,519

a look at the body of evidence to

331

00:16:36,299 --> 00:16:32,709

separate the noise the hype the lies

332

00:16:38,219 --> 00:16:36,309

from actual scientific rigor we do it

333

00:16:39,359 --> 00:16:38,229

with comedy skits the only logical thing

334

00:16:41,789 --> 00:16:39,369

to do is for me to take off all my

335

00:16:43,589 --> 00:16:41,799

clothes and run into the street no

336

00:16:47,430 --> 00:16:43,599

remember the first rule of podcasting

337

00:16:49,879 --> 00:16:47,440

always keep your pants on with jingles

338

00:16:53,789 --> 00:16:49,889

[Music]

339

00:16:55,469 --> 00:16:53,799

and by him discussing what the evidence

340

00:16:58,439 --> 00:16:55,479

has to say on the topic at hand or

341

00:17:00,509 --> 00:16:58,449

unless that is a pill but yeah it has it

342

00:17:01,559 --> 00:17:00,519

has the side effects of bloating gas and

343

00:17:04,169 --> 00:17:01,569

greasy stool which makes it very

344

00:17:06,600 --> 00:17:04,179

unpleasant the body of evidence find it

345

00:17:09,029 --> 00:17:06,610

a body of evidence dot CA or on your

346

00:17:12,149 --> 00:17:09,039

favorite podcast app the body of

347

00:17:16,150 --> 00:17:12,159

evidence medicine that tastes funny and

348

00:17:16,160 --> 00:17:33,430

[Music]

349

00:17:41,340 --> 00:17:36,640

you find me outside the San Jose train

350

00:17:49,030 --> 00:17:45,550

it's a wonderful old style train station

351  
00:17:50,800 --> 00:17:49,040  
something out of the movies and I was

352  
00:17:52,750 --> 00:17:50,810  
just I'm went here waiting for susan

353  
00:17:54,880 --> 00:17:52,760  
gerbic from guerrilla skepticism on

354  
00:17:58,280 --> 00:17:54,890  
wikipedia to pick me up and i spent a

355  
00:18:01,550 --> 00:17:58,290  
few moments looking around the station

356  
00:18:05,450 --> 00:18:01,560  
and I couldn't help that think and I

357  
00:18:11,450 --> 00:18:05,460  
could walk up to the counter via

358  
00:18:16,430 --> 00:18:11,460  
stickers and just go anywhere in the

359  
00:18:18,500 --> 00:18:16,440  
United States maybe not a while but it's

360  
00:18:22,820 --> 00:18:18,510  
quite a thought it's quite a thought

361  
00:18:25,670 --> 00:18:22,830  
anyway I'm here to visit Susan for a few

362  
00:18:29,060 --> 00:18:25,680  
days and give her a little bit of media

363  
00:18:31,040 --> 00:18:29,070

training and I think we should find some

364

00:18:43,220 --> 00:18:31,050

time to have a few sceptical adventures

365

00:18:44,990 --> 00:18:43,230

along the way Winchester turning right

366

00:18:46,970 --> 00:18:45,000

folks we're heading for the Winchester

367

00:18:49,370 --> 00:18:46,980

Mystery House I've heard about this

368

00:18:52,580 --> 00:18:49,380

thing going way back to the 1970s when I

369

00:18:54,200 --> 00:18:52,590

used to watch a show called oh now

370

00:18:57,380 --> 00:18:54,210

what's that Ripley's Believe It or Not

371

00:18:59,780 --> 00:18:57,390

with Jack Palance it could have been or

372

00:19:02,120 --> 00:18:59,790

could have been that's incredible shows

373

00:19:04,010 --> 00:19:02,130

it from my childhood i'm with susan

374

00:19:06,950 --> 00:19:04,020

gerbic from guerrilla skepticism on

375

00:19:09,200 --> 00:19:06,960

wikipedia I Susan hi Richard it's so

376

00:19:11,540 --> 00:19:09,210

great to have you here in my car we're

377

00:19:14,120 --> 00:19:11,550

gonna have such a fun time yeah and

378

00:19:15,890 --> 00:19:14,130

we're just driving through parts unknown

379

00:19:17,000 --> 00:19:15,900

oh we're just checking the map now you

380

00:19:21,560 --> 00:19:17,010

turned off because it's right there in

381

00:19:23,720 --> 00:19:21,570

front of us oh we found it just getting

382

00:19:25,610 --> 00:19:23,730

to it once you're here you can't miss it

383

00:19:26,480 --> 00:19:25,620

watch you're gonna see it see that you

384

00:19:28,460 --> 00:19:26,490

can see it right there

385

00:19:31,100 --> 00:19:28,470

it's a massive house what that thing

386

00:19:33,320 --> 00:19:31,110

yeah that's right here right in front of

387

00:19:36,140 --> 00:19:33,330

you oh my goodness me it's just coming

388

00:19:40,159 --> 00:19:36,150

up we're just passing a few signs now

389

00:19:41,870 --> 00:19:40,169

you can which sits behind the it's

390

00:19:44,090 --> 00:19:41,880

behind this is not anything there is a

391

00:19:46,399 --> 00:19:44,100

move you kidding God now the movie

392

00:19:48,080 --> 00:19:46,409

theater bill so we're gonna go right

393

00:19:49,880 --> 00:19:48,090

over here to the Winchester Mystery

394

00:19:52,610 --> 00:19:49,890

House I am shocked you've never been

395

00:19:54,830 --> 00:19:52,620

here before I'm shocked too and the big

396

00:19:56,870 --> 00:19:54,840

sign Winchester Mystery House right

397

00:19:59,299 --> 00:19:56,880

behind a set of traffic lights so it's

398

00:20:11,330 --> 00:19:59,309

sort of obscured a little bit unhinged

399

00:20:14,480 --> 00:20:11,340

it says Wow looks fabulous even guest

400

00:20:19,230 --> 00:20:14,490

parking must be down here is that Sarah

401  
00:20:24,870 --> 00:20:21,750  
would you pay to I turn to park they say

402  
00:20:25,620 --> 00:20:24,880  
stop stop oh now he says go I guess this

403  
00:20:27,899 --> 00:20:25,630  
is it

404  
00:20:33,720 --> 00:20:27,909  
where's the parking for the Winchester

405  
00:20:35,430 --> 00:20:33,730  
house oh just trucks here reach around

406  
00:20:38,909 --> 00:20:35,440  
it's a little parking lot it's a bit

407  
00:20:41,490 --> 00:20:38,919  
weird this is the first mystery soon is

408  
00:20:48,930 --> 00:20:41,500  
how do we park at the Winchester Mystery

409  
00:20:52,680 --> 00:20:48,940  
House so I think it's right yeah thank

410  
00:20:58,259 --> 00:20:55,799  
there's less this must be it here must

411  
00:21:04,139 --> 00:20:58,269  
be there was fields here all over the

412  
00:21:06,450 --> 00:21:04,149  
place this was a huge field in here yeah

413  
00:21:09,419 --> 00:21:06,460

this is nothing must be it yeah because

414

00:21:11,489 --> 00:21:09,429

the sign saying parking leads to really

415

00:21:13,289 --> 00:21:11,499

nowhere but anyway but we're in

416

00:21:15,089 --> 00:21:13,299

Winchester Mystery House which is signs

417

00:21:17,009 --> 00:21:15,099

will take us known ok let's park here

418

00:21:17,849 --> 00:21:17,019

that's right maybe that's the first

419

00:21:19,619 --> 00:21:17,859

trick isn't it

420

00:21:20,879 --> 00:21:19,629

there's the sign that takes us nowhere

421

00:21:23,519 --> 00:21:20,889

so we have to come back

422

00:21:32,009 --> 00:21:23,529

alright let's go in have a party and

423

00:21:34,139 --> 00:21:32,019

explore the Winchester Mystery House we

424

00:21:35,730 --> 00:21:34,149

made our way into the Winchester Mystery

425

00:21:38,159 --> 00:21:35,740

House

426  
00:21:41,310 --> 00:21:38,169  
tickets were bought and we waited in the

427  
00:21:43,110 --> 00:21:41,320  
courtyard for our tour to begin not too

428  
00:21:47,070 --> 00:21:43,120  
many people around at that time of the

429  
00:21:51,090 --> 00:21:47,080  
day and our tour consisted of only seven

430  
00:21:54,330 --> 00:21:51,100  
people the tour began in the carriage

431  
00:21:57,570 --> 00:21:54,340  
area and proceeded to wind its way

432  
00:22:03,029 --> 00:21:57,580  
through many rooms over a hundred in the

433  
00:22:05,370 --> 00:22:03,039  
end of this incredible house one room

434  
00:22:09,000 --> 00:22:05,380  
led to another room to another room led

435  
00:22:11,240 --> 00:22:09,010  
to a doorway led to a staircase led to a

436  
00:22:14,399 --> 00:22:11,250  
cupboard led to another staircase

437  
00:22:17,340 --> 00:22:14,409  
winding around up and down throughout

438  
00:22:21,840 --> 00:22:19,320

before long we were completely

439

00:22:24,330 --> 00:22:21,850

disorientated and had no idea in what

440

00:22:27,029 --> 00:22:24,340

part of the house we were has one

441

00:22:29,190 --> 00:22:27,039

bedroom led to a conservatory through a

442

00:22:34,789 --> 00:22:29,200

seance room through a secret passage to

443

00:22:37,169 --> 00:22:34,799

another floor and so it went our

444

00:22:40,259 --> 00:22:37,179

entertaining tour guide pointing out the

445

00:22:45,810 --> 00:22:40,269

curiosities and eccentricities of the

446

00:22:48,830 --> 00:22:45,820

house along the way mansion was once the

447

00:22:52,320 --> 00:22:48,840

personal residence of Sarah Winchester

448

00:22:55,680 --> 00:22:52,330

who was the widow of the firearm magnate

449

00:22:58,860 --> 00:22:55,690

William Winchester of the Winchester

450

00:23:02,340 --> 00:22:58,870

Repeating rifle Fame we were told that

451

00:23:05,580 --> 00:23:02,350

Sarah after her husband's death was

452

00:23:08,820 --> 00:23:05,590

supposedly instructed on the advice of

453

00:23:10,919 --> 00:23:08,830

her clairvoyant or through a seance that

454

00:23:13,470 --> 00:23:10,929

the souls of those killed by the

455

00:23:18,330 --> 00:23:13,480

Winchester rifle would be haunting her

456

00:23:22,830 --> 00:23:18,340

and she was inspired to build a rambling

457

00:23:24,180 --> 00:23:22,840

mansion to appease their spirits one of

458

00:23:27,090 --> 00:23:24,190

the interesting things about walking

459

00:23:29,220 --> 00:23:27,100

around the house was remembering that

460

00:23:33,299 --> 00:23:29,230

Sarah was only about 4 foot 10 inches

461

00:23:37,019 --> 00:23:33,309

tall so a lot of the house was designed

462

00:23:39,119 --> 00:23:37,029

for somebody of that height I had to

463

00:23:41,700 --> 00:23:39,129

watch my head quite a few times going

464

00:23:45,500 --> 00:23:41,710

from one room to another or from one

465

00:23:47,870 --> 00:23:45,510

staircase to another room and so on

466

00:23:51,490 --> 00:23:47,880

the reason Sara could afford to build

467

00:23:55,070 --> 00:23:51,500

such a rambling mansion was that in 1881

468

00:23:58,610 --> 00:23:55,080

after her husband's death she inherited

469

00:24:01,850 --> 00:23:58,620

more than 20 million dollars she also

470

00:24:04,700 --> 00:24:01,860

received nearly 50% ownership of the

471

00:24:08,770 --> 00:24:04,710

Winchester Repeating Arms Company giving

472

00:24:11,630 --> 00:24:08,780

her an income of roughly \$1,000 a day

473

00:24:14,440 --> 00:24:11,640

equivalent to something like twenty six

474

00:24:16,970 --> 00:24:14,450

thousand dollars a day in today's money

475

00:24:19,669 --> 00:24:16,980

throughout the tour our tour guide did

476

00:24:23,419 --> 00:24:19,679

make mention now and then - supposedly

477

00:24:25,640 --> 00:24:23,429

spooky occurrences or motivations

478

00:24:28,039 --> 00:24:25,650

throughout the house the seance room was

479

00:24:31,159 --> 00:24:28,049

particularly interesting but I must say

480

00:24:32,799 --> 00:24:31,169

this aspect was not overplayed more

481

00:24:35,320 --> 00:24:32,809

importantly the architectural

482

00:24:38,810 --> 00:24:35,330

curiosities of the house were emphasized

483

00:24:41,480 --> 00:24:38,820

it was a fascinating walk through the

484

00:24:41,490 --> 00:24:49,750

finally we ended up in the gift shop

485

00:24:55,160 --> 00:24:53,390

all right well the two is over it was

486

00:24:57,770 --> 00:24:55,170

great I enjoyed that

487

00:25:01,910 --> 00:24:57,780

silly in front of Katrina oh you're

488

00:25:11,970 --> 00:25:08,580

and that was it's close to being inside

489

00:25:13,740 --> 00:25:11,980

amazes I think I've ever been I think

490

00:25:17,490 --> 00:25:13,750

that's my third or fourth time doing the

491

00:25:18,870 --> 00:25:17,500

tour so it's still perplexing oh I'm

492

00:25:22,560 --> 00:25:18,880

more interested in what you thought of

493

00:25:24,690 --> 00:25:22,570

it um yeah it was very much like getting

494

00:25:28,470 --> 00:25:24,700

a tour of a museum an old house which is

495

00:25:30,540 --> 00:25:28,480

exactly what it is but the azov

496

00:25:33,570 --> 00:25:30,550

staircases that go nowhere in the low

497

00:25:35,250 --> 00:25:33,580

steps and everything but it's more I got

498

00:25:38,640 --> 00:25:35,260

the impression it was more catered for

499

00:25:41,010 --> 00:25:38,650

her eccentricities than anything else

500

00:25:42,840 --> 00:25:41,020

and her her

501

00:25:45,840 --> 00:25:42,850

I mean she's tiny little woman yeah I'll

502

00:25:47,760 --> 00:25:45,850

foot 10 so the stairs were I think

503

00:25:49,050 --> 00:25:47,770

everything makes sense I know you see if

504

00:25:51,690 --> 00:25:49,060

you go by you see that there's a

505

00:25:53,370 --> 00:25:51,700

bathrooms with windows in them yeah okay

506

00:25:55,140 --> 00:25:53,380

that's a little odd that you can look

507

00:25:57,780 --> 00:25:55,150

right into the toilet that's a wee kazoo

508

00:25:59,730 --> 00:25:57,790

right but those were designed because

509

00:26:01,380 --> 00:25:59,740

she was a very old woman and if she fell

510

00:26:03,720 --> 00:26:01,390

she wanted her servants to be able to

511

00:26:05,370 --> 00:26:03,730

see that she had fallen so they totally

512

00:26:07,470 --> 00:26:05,380

hung a cloth or I mean they could have

513

00:26:09,900 --> 00:26:07,480

hung a cloth or something there's a lot

514

00:26:11,880 --> 00:26:09,910

of this this incredible house which

515

00:26:14,730 --> 00:26:11,890

strikes me as being very practical oh

516

00:26:17,340 --> 00:26:14,740

it's extremely and they said she treated

517

00:26:19,290 --> 00:26:17,350

her servants extremely well and she did

518

00:26:23,580 --> 00:26:19,300

a lot of inventing a lot of the things

519

00:26:25,170 --> 00:26:23,590

that were labor saving devices for her

520

00:26:28,110 --> 00:26:25,180

servants and for mouths and she was a

521

00:26:29,620 --> 00:26:28,120

really interesting woman and I think she

522

00:26:31,660 --> 00:26:29,630

was a really

523

00:26:33,430 --> 00:26:31,670

I mean if you've got more money than you

524

00:26:36,580 --> 00:26:33,440

can imagine the thing she was making

525

00:26:39,640 --> 00:26:36,590

\$1000 a day back in the in the in the

526

00:26:41,980 --> 00:26:39,650

1850 the late part of the 18th century

527

00:26:45,280 --> 00:26:41,990

early part of the 20th century that's a

528

00:26:48,700 --> 00:26:45,290

lot of money yeah and when and that was

529

00:26:52,840 --> 00:26:48,710

\$1,000 a day in stock she inherited 20

530

00:26:54,640 --> 00:26:52,850

million yeah so she was doing okay but

531

00:26:56,410 --> 00:26:54,650

she didn't wasn't a happy woman I mean

532

00:26:58,930 --> 00:26:56,420

she didn't have her picture taken she

533

00:27:04,330 --> 00:26:58,940

wasn't sociable she to her husband and

534

00:27:06,490 --> 00:27:04,340

her only child had died I mean money

535

00:27:09,070 --> 00:27:06,500

can't buy you happiness I really can't I

536

00:27:11,410 --> 00:27:09,080

mean it just just and and the idea that

537

00:27:13,120 --> 00:27:11,420

she was into seances okay maybe she was

538

00:27:14,590 --> 00:27:13,130

but yeah you know what are you gonna do

539

00:27:17,950 --> 00:27:14,600

she could have done jigsaw puzzles all

540

00:27:20,110 --> 00:27:17,960

day long I'm glad is there's a few hints

541

00:27:22,830 --> 00:27:20,120

of spookiness about the tool but largely

542

00:27:26,800 --> 00:27:22,840

not right there's a lot of history and

543

00:27:28,480 --> 00:27:26,810

explaining the inventiveness of the

544

00:27:31,300 --> 00:27:28,490

house I thought that's great

545

00:27:33,730 --> 00:27:31,310

anyway I think yeah I can recommend if

546

00:27:35,320 --> 00:27:33,740

you're in the area I think visit to the

547

00:27:41,799 --> 00:27:35,330

Winchester Mystery House is a pretty

548

00:27:48,969 --> 00:27:43,989

the Winchester Mystery House is located

549

00:27:52,250 --> 00:27:48,979

at 525 South Winchester Boulevard San

550

00:27:59,830 --> 00:27:55,310

it's open daily from 9 a.m. and you can

551  
00:28:05,020 --> 00:27:59,840  
find out more by going to WWE my house

552  
00:28:05,030 --> 00:28:11,690  
[Music]

553  
00:28:18,470 --> 00:28:16,220  
mordy skeptics in the pub present

554  
00:28:23,930 --> 00:28:18,480  
listening to the universe with

555  
00:28:29,090 --> 00:28:23,940  
gravitational waves Tuesday the first of

556  
00:28:32,320 --> 00:28:29,100  
October 7:30 p.m. to 9:30 p.m. with dr.

557  
00:28:38,000 --> 00:28:32,330  
Hannah Middleton astrophysicist

558  
00:28:40,129 --> 00:28:38,010  
University of Melbourne in 2015

559  
00:28:42,440 --> 00:28:40,139  
gravitational waves were observed for

560  
00:28:46,269 --> 00:28:42,450  
the first time from the collision of two

561  
00:28:48,590 --> 00:28:46,279  
black holes a billion light years away

562  
00:28:51,110 --> 00:28:48,600  
gravitational waves make minuscule

563  
00:28:53,149 --> 00:28:51,120

changes in distance which were picked up

564

00:28:56,019 --> 00:28:53,159

by the laser interferometer

565

00:28:58,700 --> 00:28:56,029

gravitational-wave Observatory

566

00:29:00,950 --> 00:28:58,710

gravitational waves gives us a new way

567

00:29:03,769 --> 00:29:00,960

to learn about the universe this

568

00:29:05,360 --> 00:29:03,779

presentation is an overview of what has

569

00:29:07,610 --> 00:29:05,370

been discovered so far from

570

00:29:11,620 --> 00:29:07,620

gravitational waves and what

571

00:29:14,419 --> 00:29:11,630

observations can be made in the future

572

00:29:17,060 --> 00:29:14,429

that's Tuesday the first of October

573

00:29:19,039 --> 00:29:17,070

mordy skeptics in the pub for more

574

00:29:25,750 --> 00:29:19,049

information check out the links on this

575

00:29:53,789 --> 00:29:37,669

[Music]

576

00:29:56,580 --> 00:29:53,799

life is wild with Michelle Franklin hi

577

00:30:02,820 --> 00:29:56,590

this is Michelle Franklin reporting from

578

00:30:04,860 --> 00:30:02,830

Darwin in the Northern Territory today I

579

00:30:09,149 --> 00:30:04,870

have a question for listeners outside of

580

00:30:11,850 --> 00:30:09,159

Australia are you afraid to come here if

581

00:30:15,510 --> 00:30:11,860

so what is it exactly that you're afraid

582

00:30:17,820 --> 00:30:15,520

of I'm gonna take a guess and say that

583

00:30:20,490 --> 00:30:17,830

in your top 5 of scary Australian

584

00:30:22,890 --> 00:30:20,500

animals along with snakes crocodiles and

585

00:30:25,110 --> 00:30:22,900

sharks you're probably also concerned

586

00:30:27,870 --> 00:30:25,120

about spiders and I don't blame you

587

00:30:29,399 --> 00:30:27,880

they're big they run sometimes they go

588

00:30:32,250 --> 00:30:29,409

inside your clothes and it can be pretty

589

00:30:35,130 --> 00:30:32,260

scary now I have a question for

590

00:30:45,600 --> 00:30:35,140

Australian listeners do you agree with

591

00:30:47,450 --> 00:30:45,610

this concern we all know that funnel-web

592

00:30:50,130 --> 00:30:47,460

spiders are highly venomous

593

00:30:52,560 --> 00:30:50,140

Redbacks lurk in every corner in our

594

00:30:54,659 --> 00:30:52,570

house and the whitetail spider is

595

00:30:56,340 --> 00:30:54,669

notorious for hiding in bedsheets and

596

00:31:00,000 --> 00:30:56,350

melting the flesh off its innocent

597

00:31:02,940 --> 00:31:00,010

victims but are we actually at risk from

598

00:31:05,180 --> 00:31:02,950

them do you actually know anyone who has

599

00:31:09,750 --> 00:31:05,190

been seriously harmed by a spider I

600

00:31:11,850 --> 00:31:09,760

don't I have of course had angry

601  
00:31:14,010 --> 00:31:11,860  
Huntsman's run at me and jump and then

602  
00:31:16,289 --> 00:31:14,020  
mysteriously vanish right near my bed at

603  
00:31:18,180 --> 00:31:16,299  
2:00 a.m. I've chased them out of the

604  
00:31:20,279 --> 00:31:18,190  
house wielding a broom only to have them

605  
00:31:23,430 --> 00:31:20,289  
turn and run back down the broom handle

606  
00:31:25,200 --> 00:31:23,440  
and chase me back inside again I've even

607  
00:31:27,360 --> 00:31:25,210  
had the unfortunate experience of

608  
00:31:29,760 --> 00:31:27,370  
attempting to catch one by the light of

609  
00:31:32,100 --> 00:31:29,770  
my phone only to have the accelerometer

610  
00:31:34,950 --> 00:31:32,110  
respond to my adrenaline-fueled recoil

611  
00:31:36,990 --> 00:31:34,960  
and automatically turn off therefore

612  
00:31:39,940 --> 00:31:37,000  
plunging me into darkness with no idea

613  
00:31:41,860 --> 00:31:39,950

where the spider ended up

614

00:31:44,549 --> 00:31:41,870

I will honestly take a red back or a

615

00:31:47,409 --> 00:31:44,559

white towel over a huntsman any day

616

00:31:49,210 --> 00:31:47,419

maybe not the funnel web but ask me

617

00:31:51,310 --> 00:31:49,220

again at 2:00 a.m. when that huntsman is

618

00:31:54,870 --> 00:31:51,320

lurking near my bed somewhere and I

619

00:31:59,590 --> 00:31:57,220

don't think this irrational fear of

620

00:32:02,230 --> 00:31:59,600

being touched by a huntsman actually

621

00:32:04,029 --> 00:32:02,240

counts as fear of spiders though I'm not

622

00:32:07,389 --> 00:32:04,039

really afraid that they'll hurt me I

623

00:32:10,029 --> 00:32:07,399

just don't want them to touch me and I

624

00:32:12,879 --> 00:32:10,039

expect that my lack of actual real fear

625

00:32:15,070 --> 00:32:12,889

comes down to lack of experience I've

626  
00:32:17,950 --> 00:32:15,080  
never personally experienced someone

627  
00:32:19,480 --> 00:32:17,960  
being seriously harmed by a spider and I

628  
00:32:22,029 --> 00:32:19,490  
suspect that that's because they're not

629  
00:32:25,240 --> 00:32:22,039  
actually that dangerous anymore and some

630  
00:32:26,889 --> 00:32:25,250  
of them probably never were granted some

631  
00:32:29,230 --> 00:32:26,899  
of our spiders are pretty dangerous on

632  
00:32:31,539 --> 00:32:29,240  
their own but since anti-venom was

633  
00:32:34,570 --> 00:32:31,549  
invented I don't think anyone has died

634  
00:32:36,460 --> 00:32:34,580  
from spider venom in Australia the last

635  
00:32:40,180 --> 00:32:36,470  
recorded death from actual spider venom

636  
00:32:42,310 --> 00:32:40,190  
was in 1979 and since then the very few

637  
00:32:44,350 --> 00:32:42,320  
deaths that have been reported were from

638  
00:32:46,360 --> 00:32:44,360

secondary infections or allergic

639

00:32:49,600 --> 00:32:46,370

reactions for impacts get a bad

640

00:32:51,570 --> 00:32:49,610

reputation because they're so common and

641

00:32:54,490 --> 00:32:51,580

they hang out in places where people are

642

00:32:56,490 --> 00:32:54,500

but despite constant exposure to red

643

00:32:59,860 --> 00:32:56,500

backs by millions of people every day

644

00:33:01,299 --> 00:32:59,870

bites are really not that common and now

645

00:33:04,960 --> 00:33:01,309

that they get treated with anti-venom

646

00:33:06,789 --> 00:33:04,970

most people recover pretty quickly so

647

00:33:10,000 --> 00:33:06,799

why are we irrationally afraid of

648

00:33:13,299 --> 00:33:10,010

spiders I think a lot of it comes down

649

00:33:15,460 --> 00:33:13,309

to urban legends I can remember being

650

00:33:19,419 --> 00:33:15,470

terrified of White House spiders when I

651  
00:33:21,100 --> 00:33:19,429  
first saw one I was confused and you in

652  
00:33:24,039 --> 00:33:21,110  
my head that I'd been told they were

653  
00:33:24,850 --> 00:33:24,049  
extremely dangerous but I'd lived among

654  
00:33:28,210 --> 00:33:24,860  
them my whole life

655  
00:33:30,669 --> 00:33:28,220  
and never been bitten never known anyone

656  
00:33:32,649 --> 00:33:30,679  
that was bitten and it's a weird

657  
00:33:35,560 --> 00:33:32,659  
disconnect between the truth that I've

658  
00:33:37,389 --> 00:33:35,570  
been taught and the reality that I've

659  
00:33:41,379 --> 00:33:37,399  
never experienced it despite ample

660  
00:33:42,970 --> 00:33:41,389  
exposure and opportunity the story goes

661  
00:33:45,039 --> 00:33:42,980  
that you can be bitten by a whitetail

662  
00:33:47,379 --> 00:33:45,049  
spider while you're asleep and never

663  
00:33:49,509 --> 00:33:47,389

even know it you don't feel anything and

664

00:33:52,180 --> 00:33:49,519

then mysteriously your flesh begins to

665

00:33:53,710 --> 00:33:52,190

necrotize and you end up with massive

666

00:33:57,580 --> 00:33:53,720

infected wounds

667

00:34:01,110 --> 00:33:57,590

eat away your skin and make big holes in

668

00:34:03,940 --> 00:34:01,120

your arms or legs but here's the thing

669

00:34:06,549 --> 00:34:03,950

in most of the diagnosed white house

670

00:34:09,849 --> 00:34:06,559

spider bites no one actually found the

671

00:34:12,700 --> 00:34:09,859

spider the symptoms just appear and the

672

00:34:14,619 --> 00:34:12,710

diagnosis is made on that alone there's

673

00:34:16,690 --> 00:34:14,629

been a lot of work done in this area in

674

00:34:19,059 --> 00:34:16,700

recent years and it's been pretty

675

00:34:21,220 --> 00:34:19,069

conclusively shown that the symptoms of

676  
00:34:23,530 --> 00:34:21,230  
a whitetail spider bite are immediate

677  
00:34:26,619 --> 00:34:23,540  
pain and swelling similar to that of a

678  
00:34:27,730 --> 00:34:26,629  
bee sting nothing like the painless or

679  
00:34:30,669 --> 00:34:27,740  
non-existent

680  
00:34:32,680 --> 00:34:30,679  
initial bite and spontaneous necrotic

681  
00:34:35,760 --> 00:34:32,690  
ulcers that get blamed on whitetail

682  
00:34:38,409 --> 00:34:35,770  
spiders but the legend persists because

683  
00:34:40,720 --> 00:34:38,419  
people discover strange necrotic sores

684  
00:34:43,540 --> 00:34:40,730  
on their bodies and Google the symptoms

685  
00:34:45,520 --> 00:34:43,550  
or seek medical help and even despite

686  
00:34:48,149 --> 00:34:45,530  
the mounting evidence they're still

687  
00:34:51,760 --> 00:34:48,159  
diagnosed with a suspected spider bite

688  
00:34:53,829 --> 00:34:51,770

and I've fallen for it myself twice I've

689

00:34:56,980 --> 00:34:53,839

seen spiders on my skin and then later

690

00:34:58,420 --> 00:34:56,990

developed a rash and being convinced

691

00:35:01,240 --> 00:34:58,430

that I must have been bitten by those

692

00:35:02,680 --> 00:35:01,250

spiders in reality it's probably more

693

00:35:05,640 --> 00:35:02,690

likely that I had a reaction to the

694

00:35:09,099 --> 00:35:05,650

plants that the spiders were sitting on

695

00:35:12,040 --> 00:35:09,109

it's like a large scale version of false

696

00:35:14,380 --> 00:35:12,050

confirmation bias only it's being

697

00:35:17,109 --> 00:35:14,390

perpetrated by medical professionals as

698

00:35:18,760 --> 00:35:17,119

well as the rest of us we all get told

699

00:35:20,980 --> 00:35:18,770

that necrotic wounds are caused by

700

00:35:23,349 --> 00:35:20,990

spider bites so every time someone

701  
00:35:25,569 --> 00:35:23,359  
experiences those symptoms we chalk it

702  
00:35:29,440 --> 00:35:25,579  
up as just another example of spider

703  
00:35:31,230 --> 00:35:29,450  
bites causing necrosis in reality it's

704  
00:35:33,520 --> 00:35:31,240  
been shown that spider bites are

705  
00:35:36,720 --> 00:35:33,530  
extremely unlikely to be the cause of

706  
00:35:38,770 --> 00:35:36,730  
seemingly spontaneous necrotic wounds

707  
00:35:41,920 --> 00:35:38,780  
unfortunately the more likely

708  
00:35:44,740 --> 00:35:41,930  
explanation is one of several illnesses

709  
00:35:46,380 --> 00:35:44,750  
or conditions such as bacterial or

710  
00:35:50,710 --> 00:35:46,390  
fungal infection poor circulation

711  
00:35:52,300 --> 00:35:50,720  
diabetes or even unmanaged burns but if

712  
00:35:53,950 --> 00:35:52,310  
we continue to assume that their spider

713  
00:35:57,760 --> 00:35:53,960

bites we might miss an important

714

00:36:00,910 --> 00:35:57,770

diagnosis that being said given my

715

00:36:03,220 --> 00:36:00,920

irrational arachnophobia I'm sad to say

716

00:36:05,380 --> 00:36:03,230

that on a bad day when I'm feeling

717

00:36:07,450 --> 00:36:05,390

particularly vulnerable I'd probably

718

00:36:10,360 --> 00:36:07,460

still choose the necrotic bacteria

719

00:36:28,540 --> 00:36:10,370

over the hairy spider that jumps but hey

720

00:36:30,850 --> 00:36:28,550

we all have our sacred cows hey you

721

00:36:32,980 --> 00:36:30,860

fellow skeptics Medford here with

722

00:36:34,990 --> 00:36:32,990

Celeste reward your friendly host of

723

00:36:36,880 --> 00:36:35,000

squaring the strange a podcast that

724

00:36:39,250 --> 00:36:36,890

looks at topics ranging from Legends

725

00:36:41,470 --> 00:36:39,260

panics and cryptids debating myths

726  
00:36:43,540 --> 00:36:41,480  
psychology and folklore breaking things

727  
00:36:45,640 --> 00:36:43,550  
down and picking things apart as we

728  
00:36:47,980 --> 00:36:45,650  
skeptics do we bring a few different

729  
00:36:50,410 --> 00:36:47,990  
perspectives on things pleasure for

730  
00:36:51,700 --> 00:36:50,420  
example is a witty cartoonist and Ben is

731  
00:36:53,770 --> 00:36:51,710  
a brilliant writer and longtime

732  
00:36:56,200 --> 00:36:53,780  
skeptical investigator we don't always

733  
00:36:58,450 --> 00:36:56,210  
agree but we have fun trying and we

734  
00:37:01,120 --> 00:36:58,460  
learn new things join us for new topics

735  
00:37:03,400 --> 00:37:01,130  
every week or two or browse our backlog

736  
00:37:05,980 --> 00:37:03,410  
of evergreen episodes available on

737  
00:37:08,440 --> 00:37:05,990  
iTunes and all your podcast feeding

738  
00:37:11,430 --> 00:37:08,450

troughs squaring the strange take care

739

00:37:38,020 --> 00:37:37,530

I think we need to think here susan

740

00:37:44,660 --> 00:37:38,030

gerbic

741

00:37:47,569 --> 00:37:44,670

[Music]

742

00:37:50,750 --> 00:37:47,579

whose greens chords everywhere we've cut

743

00:37:53,870 --> 00:37:50,760

phones we've got cables we've got little

744

00:37:58,279 --> 00:37:53,880

discs and cameras and I go around the

745

00:38:01,579 --> 00:37:58,289

back here bags of equipment I'm at the

746

00:38:03,620 --> 00:38:01,589

nerve centre the den the hub the what do

747

00:38:05,779 --> 00:38:03,630

you call the war room the war room of

748

00:38:09,710 --> 00:38:05,789

guerrilla skepticism on Wikipedia i'm

749

00:38:14,059 --> 00:38:09,720

with susan gerbic once again and a quick

750

00:38:17,690 --> 00:38:14,069

look around this this centre here oh

751  
00:38:19,880 --> 00:38:17,700  
look at this an origami elephant framed

752  
00:38:22,309 --> 00:38:19,890  
on the wall there on the bookcase oh

753  
00:38:26,480 --> 00:38:22,319  
that's a nice one that's you and the

754  
00:38:28,579 --> 00:38:26,490  
late Robert Lancaster anyway here we are

755  
00:38:30,620 --> 00:38:28,589  
this is where and you're at the desk

756  
00:38:33,200 --> 00:38:30,630  
I'll just sit down here beside you this

757  
00:38:35,569 --> 00:38:33,210  
is where you conduct a lot of what

758  
00:38:37,609 --> 00:38:35,579  
happens for guerrilla skepticism on

759  
00:38:39,440 --> 00:38:37,619  
Wikipedia you are involved in a project

760  
00:38:41,240 --> 00:38:39,450  
now which we won't go into but you're

761  
00:38:43,400 --> 00:38:41,250  
just showing me the information that

762  
00:38:45,500 --> 00:38:43,410  
you're gathering oh my gosh there's so

763  
00:38:47,660 --> 00:38:45,510

much to do every time I turn around it's

764

00:38:50,059 --> 00:38:47,670

like these psychics are just painting me

765

00:38:52,430 --> 00:38:50,069

asking me to research them and report

766

00:38:54,920 --> 00:38:52,440

back on am i I can't keep up that

767

00:38:57,799 --> 00:38:54,930

baiting you nice I swear they're baiting

768

00:38:59,120 --> 00:38:57,809

me well that's I mean without going into

769

00:39:01,249 --> 00:38:59,130

details because it's a bit of a secret

770

00:39:03,920 --> 00:39:01,259

term project you're doing at the moment

771

00:39:06,410 --> 00:39:03,930

Derek there are there are some psychics

772

00:39:09,160 --> 00:39:06,420

on your radar and there are various

773

00:39:12,470 --> 00:39:09,170

projects involved concerning them and

774

00:39:14,870 --> 00:39:12,480

that's as far as we'll talk about that

775

00:39:16,009 --> 00:39:14,880

at the moment I'm privy to what's going

776

00:39:18,289 --> 00:39:16,019

on I'm having a look at some of the

777

00:39:20,180 --> 00:39:18,299

information you're gathering and how

778

00:39:22,579 --> 00:39:20,190

much of what you do is just get them

779

00:39:25,450 --> 00:39:22,589

gathering this information well you know

780

00:39:27,559 --> 00:39:25,460

we have to have evidence for everything

781

00:39:29,630 --> 00:39:27,569

it's alright it's a plane going overhead

782

00:39:31,490 --> 00:39:29,640

it happens to me all the time in fact

783

00:39:33,019 --> 00:39:31,500

I'm sure that the local airport waits

784

00:39:37,849 --> 00:39:33,029

till I'm recording then they send planes

785

00:39:40,880 --> 00:39:37,859

carry on it's all right so what I do is

786

00:39:42,589 --> 00:39:40,890

we spend a lot of time you know just

787

00:39:45,620 --> 00:39:42,599

checking to make sure that we have

788

00:39:47,660 --> 00:39:45,630

everything with evidence I don't want to

789

00:39:49,490 --> 00:39:47,670

speculate I don't want to say they're

790

00:39:52,579 --> 00:39:49,500

using an earpiece I don't want to say

791

00:39:56,599 --> 00:39:52,589

he's probably doing it this way unless I

792

00:39:57,920 --> 00:39:56,609

have a screenshot of it or a video of it

793

00:39:59,599 --> 00:39:57,930

or audio of

794

00:40:00,980 --> 00:39:59,609

I really don't want to say what's

795

00:40:04,849 --> 00:40:00,990

happening so we do a lot of

796

00:40:07,670 --> 00:40:04,859

screenshotting a lot of archiving if I'm

797

00:40:10,099 --> 00:40:07,680

looking at a video of a psychic reading

798

00:40:12,349 --> 00:40:10,109

I'm going to download the video so that

799

00:40:15,170 --> 00:40:12,359

it stays someplace safe I'll probably

800

00:40:16,940 --> 00:40:15,180

not put it up anywhere but I we keep a

801  
00:40:18,170 --> 00:40:16,950  
copy I mean I do the same sort of thing

802  
00:40:21,799 --> 00:40:18,180  
if there's something coming up which is

803  
00:40:24,829 --> 00:40:21,809  
of importance to skepticism and I think

804  
00:40:28,370 --> 00:40:24,839  
it could disappear then yes by all means

805  
00:40:29,890 --> 00:40:28,380  
we archive it we may not ever see it

806  
00:40:32,420 --> 00:40:29,900  
again but it's there if we need it

807  
00:40:34,490 --> 00:40:32,430  
absolutely and we I find this with

808  
00:40:37,130 --> 00:40:34,500  
people all the time they'll say oh I saw

809  
00:40:39,440 --> 00:40:37,140  
that psychic so-and-so said this or the

810  
00:40:42,200 --> 00:40:39,450  
this cancer person cancer quack or

811  
00:40:44,390 --> 00:40:42,210  
anti-vaxxer or whatever it was said this

812  
00:40:46,400 --> 00:40:44,400  
thing and it's like well that's nice but

813  
00:40:48,140 --> 00:40:46,410

you need to archive it so I have an

814

00:40:50,720 --> 00:40:48,150

archive button right here on my computer

815

00:40:53,540 --> 00:40:50,730

that takes me just a couple seconds to

816

00:40:56,270 --> 00:40:53,550

archive things plus then you screenshot

817

00:40:58,819 --> 00:40:56,280

or whatever but everything has to be

818

00:41:01,190 --> 00:40:58,829

saved everything has to be in a place

819

00:41:03,559 --> 00:41:01,200

where you can retrieve it and then I'll

820

00:41:07,099 --> 00:41:03,569

put it on a cloud so that I can retrieve

821

00:41:10,549 --> 00:41:07,109

it from wherever I'm at but it's very

822

00:41:12,829 --> 00:41:10,559

important that we have evidence for

823

00:41:14,960 --> 00:41:12,839

whatever we're going to say for example

824

00:41:16,370 --> 00:41:14,970

the the the video that we stumbled

825

00:41:19,640 --> 00:41:16,380

across and we started researching the

826

00:41:23,990 --> 00:41:19,650

other day that you were talking about it

827

00:41:26,150 --> 00:41:24,000

was a psychic saying that they did a

828

00:41:28,520 --> 00:41:26,160

reading and the person said oh my gosh

829

00:41:30,859 --> 00:41:28,530

that the psychic was so correct because

830

00:41:32,809 --> 00:41:30,869

there's no way he could have gotten that

831

00:41:35,210 --> 00:41:32,819

information except from my dead father

832

00:41:36,980 --> 00:41:35,220

and so that's an evidentiary claim

833

00:41:38,900 --> 00:41:36,990

that's a that's evidence I mean that's

834

00:41:40,819 --> 00:41:38,910

something we can check so when somebody

835

00:41:44,059 --> 00:41:40,829

says that we say oh really

836

00:41:45,530 --> 00:41:44,069

let's see what the psychic said and I

837

00:41:46,910 --> 00:41:45,540

mean let's see what the psychic said and

838

00:41:48,770 --> 00:41:46,920

let's see what your Facebook or your

839

00:41:51,829 --> 00:41:48,780

Twitter or your social media accounts

840

00:41:54,710 --> 00:41:51,839

said on that day so we'll go back we'll

841

00:41:56,390 --> 00:41:54,720

look at what it was that was said and

842

00:41:58,190 --> 00:41:56,400

then we just screenshot everything and

843

00:42:00,260 --> 00:41:58,200

that's how you kind of go back and you

844

00:42:03,170 --> 00:42:00,270

can prove well he could have been

845

00:42:04,520 --> 00:42:03,180

talking to a dead person or he could

846

00:42:08,030 --> 00:42:04,530

have been looking at your social media

847

00:42:10,350 --> 00:42:08,040

page just like I did which has the

848

00:42:12,810 --> 00:42:10,360

information you were just saying there

849

00:42:14,760 --> 00:42:12,820

no way they could have known exactly the

850

00:42:17,940 --> 00:42:14,770

other the other time that we hear there

851  
00:42:20,490 --> 00:42:17,950  
is no way they could have known red flag

852  
00:42:22,950 --> 00:42:20,500  
for us of course that's a red flag and

853  
00:42:24,780 --> 00:42:22,960  
we discover it's purely cold reading and

854  
00:42:27,060 --> 00:42:24,790  
of course a good cold reading will leave

855  
00:42:28,980 --> 00:42:27,070  
the victim with the impression there is

856  
00:42:30,960 --> 00:42:28,990  
no way they could have known but when

857  
00:42:32,520 --> 00:42:30,970  
you unpick it psychologically you can

858  
00:42:34,260 --> 00:42:32,530  
see it's just standard cold reading

859  
00:42:36,960 --> 00:42:34,270  
techniques so we're talking about cold

860  
00:42:38,700 --> 00:42:36,970  
reading which is where the psychic and

861  
00:42:41,820 --> 00:42:38,710  
we use the term psychic in air quotes

862  
00:42:43,200 --> 00:42:41,830  
folks it's just a shortcut the psychic

863  
00:42:45,000 --> 00:42:43,210

will use cold reading which is just

864

00:42:47,400 --> 00:42:45,010

purely psychological techniques or hot

865

00:42:51,150 --> 00:42:47,410

reading where they know they have

866

00:42:52,770 --> 00:42:51,160

researched bio whatever means they might

867

00:42:54,750 --> 00:42:52,780

know something about the person by

868

00:42:57,150 --> 00:42:54,760

talking to family members but more

869

00:42:59,280 --> 00:42:57,160

likely these days they just run online

870

00:43:01,230 --> 00:42:59,290

and they go to their Facebook they go to

871

00:43:02,930 --> 00:43:01,240

social media tweets or whatever and they

872

00:43:05,370 --> 00:43:02,940

can discover all sorts of things

873

00:43:07,050 --> 00:43:05,380

absolutely and we're seeing this more

874

00:43:08,550 --> 00:43:07,060

and more it's becoming more common

875

00:43:11,970 --> 00:43:08,560

because people don't realize how much

876

00:43:14,250 --> 00:43:11,980

information out there is on you know

877

00:43:15,360 --> 00:43:14,260

each person yeah I get often people will

878

00:43:18,060 --> 00:43:15,370

say well why don't you just get a

879

00:43:19,470 --> 00:43:18,070

reading from psychic XYZ as if that's

880

00:43:21,810 --> 00:43:19,480

going to give me some kind of evidence

881

00:43:24,120 --> 00:43:21,820

that I'm gonna believe and my response

882

00:43:25,980 --> 00:43:24,130

is there's nothing they can't find out

883

00:43:29,250 --> 00:43:25,990

about me I mean there's probably a

884

00:43:32,280 --> 00:43:29,260

thousand photos out in social media that

885

00:43:34,950 --> 00:43:32,290

I've taken or are of me some of them are

886

00:43:36,450 --> 00:43:34,960

in my office where okay it's a picture

887

00:43:39,660 --> 00:43:36,460

of me but you can see my bookcases

888

00:43:41,790 --> 00:43:39,670

behind me you can see photographs on

889

00:43:45,240 --> 00:43:41,800

shelves behind me you can see the books

890

00:43:47,310 --> 00:43:45,250

I read you can you can find you could

891

00:43:48,780 --> 00:43:47,320

probably find anything you wanted to you

892

00:43:51,090 --> 00:43:48,790

can get the name of my first grade

893

00:43:53,220 --> 00:43:51,100

teacher and my first car I purchased

894

00:43:55,290 --> 00:43:53,230

yeah the thing you can do of course is

895

00:43:57,420 --> 00:43:55,300

you just turn up called yourself to a

896

00:43:59,970 --> 00:43:57,430

psychic reading we're giving them no

897

00:44:02,370 --> 00:43:59,980

chance beforehand to do any research on

898

00:44:04,890 --> 00:44:02,380

you or you can do something that I know

899

00:44:07,110 --> 00:44:04,900

some people do is they leave little what

900

00:44:09,480 --> 00:44:07,120

shall we call them landmines and social

901  
00:44:11,220 --> 00:44:09,490  
media you know falsehoods completely

902  
00:44:13,860 --> 00:44:11,230  
false things about themselves so if it

903  
00:44:15,660 --> 00:44:13,870  
ever comes up they say ah well that was

904  
00:44:18,210 --> 00:44:15,670  
something I left which is completely

905  
00:44:20,370 --> 00:44:18,220  
untrue absolutely the the thing of it is

906  
00:44:21,630 --> 00:44:20,380  
is what is it you're trying to do we

907  
00:44:22,890 --> 00:44:21,640  
know they're cold reading we know

908  
00:44:24,120 --> 00:44:22,900  
they're hot reading if you're just doing

909  
00:44:27,300 --> 00:44:24,130  
investigative work

910  
00:44:28,590 --> 00:44:27,310  
for your own your own sake and of course

911  
00:44:30,240 --> 00:44:28,600  
I have to do that kind of thing when

912  
00:44:31,530 --> 00:44:30,250  
we're investigating a certain psychic

913  
00:44:35,670 --> 00:44:31,540

you need to know what their techniques

914

00:44:37,350 --> 00:44:35,680

are but why go to a psychic and leave a

915

00:44:39,510 --> 00:44:37,360

little bit of information so that you

916

00:44:41,850 --> 00:44:39,520

can what what are you doing that's true

917

00:44:43,950 --> 00:44:41,860

that's true and yeah as if as if you

918

00:44:46,590 --> 00:44:43,960

need that to know old they're not

919

00:44:48,810 --> 00:44:46,600

psychic after all well how about that

920

00:44:50,010 --> 00:44:48,820

how you know how shocking is that but

921

00:44:51,960 --> 00:44:50,020

that's one thing that you're involved

922

00:44:53,730 --> 00:44:51,970

with the course but the whole guerrilla

923

00:44:55,740 --> 00:44:53,740

skepticism on Wikipedia you've got a

924

00:44:58,620 --> 00:44:55,750

team of people out there all around the

925

00:45:00,300 --> 00:44:58,630

world all corresponding with you in one

926

00:45:01,710 --> 00:45:00,310

way or another and all getting training

927

00:45:04,760 --> 00:45:01,720

I mean when do you get time to do

928

00:45:07,800 --> 00:45:04,770

anything else well you know my team is

929

00:45:09,450 --> 00:45:07,810

amazing they are located all over the

930

00:45:12,570 --> 00:45:09,460

world and I do receive messages from

931

00:45:14,040 --> 00:45:12,580

them 24/7 I'm you know I'll be like we

932

00:45:16,560 --> 00:45:14,050

went to the aquarium today and I was

933

00:45:19,050 --> 00:45:16,570

receiving messages from the team but

934

00:45:20,370 --> 00:45:19,060

they it's great it's a wonderful filling

935

00:45:21,980 --> 00:45:20,380

to be able to go somewhere and give

936

00:45:24,150 --> 00:45:21,990

suggestions but they work on their own

937

00:45:26,730 --> 00:45:24,160

all of our training is done in the

938

00:45:29,010 --> 00:45:26,740

secret cabal on Facebook so they're

939

00:45:30,660 --> 00:45:29,020

there to talk to each other and if

940

00:45:32,760 --> 00:45:30,670

somebody has a question they can ask me

941

00:45:34,760 --> 00:45:32,770

directly or they can ask in the secret

942

00:45:36,900 --> 00:45:34,770

cabal somebody will answer and

943

00:45:40,140 --> 00:45:36,910

everything's on Google Documents for

944

00:45:43,800 --> 00:45:40,150

them to learn you know I feel like I I

945

00:45:45,870 --> 00:45:43,810

could probably go for another ten people

946

00:45:48,570 --> 00:45:45,880

a day it's really not that much work for

947

00:45:50,640 --> 00:45:48,580

me and now of course you've just been

948

00:45:52,890 --> 00:45:50,650

the first graduate of the sceptics own

949

00:45:55,140 --> 00:45:52,900

media training academy you have a

950

00:45:57,540 --> 00:45:55,150

certificate to prove it yesterday folks

951

00:45:59,910 --> 00:45:57,550

we spent hours here in in the office in

952

00:46:02,640 --> 00:45:59,920

the the heartland of the wall room and I

953

00:46:04,650 --> 00:46:02,650

gave you lots of training on microphone

954

00:46:07,980 --> 00:46:04,660

techniques how to set up recording stuff

955

00:46:10,740 --> 00:46:07,990

like that editing and we look forward to

956

00:46:12,210 --> 00:46:10,750

hearing the results oh that was that was

957

00:46:14,670 --> 00:46:12,220

eye-opening I have learned so much from

958

00:46:17,280 --> 00:46:14,680

having Richard here just in the last day

959

00:46:19,980 --> 00:46:17,290

I mean just silly little tips that I had

960

00:46:21,810 --> 00:46:19,990

not even thought of he'd watch how I was

961

00:46:23,700 --> 00:46:21,820

using the computer and he'd say well why

962

00:46:25,860 --> 00:46:23,710

don't you just get an extension cord and

963

00:46:28,200 --> 00:46:25,870

do it this way and I said I don't know I

964

00:46:30,210 --> 00:46:28,210

never even dawned on me yeah I guess

965

00:46:32,040 --> 00:46:30,220

that makes sense let's do that and the

966

00:46:33,600 --> 00:46:32,050

training was terrific everyone and I

967

00:46:36,060 --> 00:46:33,610

think Richard should come out and train

968

00:46:37,800 --> 00:46:36,070

everybody on how to do really great

969

00:46:40,710 --> 00:46:37,810

audio so the

970

00:46:43,680 --> 00:46:40,720

let's see what happens because the next

971

00:46:45,480 --> 00:46:43,690

time you get you send me a report we'll

972

00:46:46,980 --> 00:46:45,490

we should all be able to hear the

973

00:46:49,200 --> 00:46:46,990

difference pressure is on the pressure

974

00:46:51,630 --> 00:46:49,210

is on and you didn't know your iPhone

975

00:46:56,190 --> 00:46:51,640

could do so much did you absolutely not

976

00:46:59,160 --> 00:46:56,200

I can edit how do you on that and I well

977

00:47:00,840 --> 00:46:59,170

I'm amazed the technology we have now is

978

00:47:03,360 --> 00:47:00,850

incredible and it's it's great to be

979

00:47:06,350 --> 00:47:03,370

able to take advantage of that well this

980

00:47:08,550 --> 00:47:06,360

folks this has been a quick sneak peek I

981

00:47:11,220 --> 00:47:08,560

won't say look because you're not

982

00:47:12,690 --> 00:47:11,230

looking this has been well say it's a

983

00:47:15,360 --> 00:47:12,700

sneak peek behind the scenes here at

984

00:47:17,040 --> 00:47:15,370

guerrilla skepticism on Wikipedia Susan

985

00:47:18,570 --> 00:47:17,050

if there are people out there who want

986

00:47:21,330 --> 00:47:18,580

to make a difference in the world

987

00:47:24,480 --> 00:47:21,340

especially through editing Wikipedia

988

00:47:26,490 --> 00:47:24,490

putting up good information what should

989

00:47:28,950 --> 00:47:26,500

they do they should reach out to me

990

00:47:30,420 --> 00:47:28,960

reach out to me on Facebook that's the

991

00:47:32,460 --> 00:47:30,430

easiest place to get a hold of me and

992

00:47:34,350 --> 00:47:32,470

I'm apologize to all those people out

993

00:47:37,170 --> 00:47:34,360

there who refuse to use Facebook it's

994

00:47:38,730 --> 00:47:37,180

that's you don't have to use Facebook

995

00:47:41,730 --> 00:47:38,740

other than just having an account to

996

00:47:43,530 --> 00:47:41,740

reach out to us and beyond the cabal but

997

00:47:45,860 --> 00:47:43,540

that's the easiest place to get a hold

998

00:47:49,260 --> 00:47:45,870

of us or you can go to our website about

999

00:47:50,730 --> 00:47:49,270

time dot org and you can get all kinds

1000

00:47:52,500 --> 00:47:50,740

of information about different

1001  
00:47:54,810 --> 00:47:52,510  
investigations we've done besides as

1002  
00:47:56,820 --> 00:47:54,820  
well as the GSO W Project Monterey

1003  
00:48:00,090 --> 00:47:56,830  
County skeptics which is my local group

1004  
00:48:02,400 --> 00:48:00,100  
or any number of other things that are

1005  
00:48:04,830 --> 00:48:02,410  
that you'll find on our website all

1006  
00:48:07,470 --> 00:48:04,840  
right there's the clue folks once again

1007  
00:48:09,270 --> 00:48:07,480  
Susan it's wonderful to be visiting you

1008  
00:48:12,060 --> 00:48:09,280  
here for the moment I had a visit last

1009  
00:48:14,670 --> 00:48:12,070  
night from a disembodied spirit I really

1010  
00:48:17,850 --> 00:48:14,680  
did I was in your guest room happily

1011  
00:48:19,860 --> 00:48:17,860  
tossing Zed's at the ceiling dreaming of

1012  
00:48:25,290 --> 00:48:19,870  
I don't know what and suddenly I hear

1013  
00:48:26,790 --> 00:48:25,300

this ghostly I have three cats and one

1014

00:48:28,140 --> 00:48:26,800

of them is just he's just a little

1015

00:48:30,270 --> 00:48:28,150

coward he doesn't want to come around

1016

00:48:32,520 --> 00:48:30,280

anybody at any time until he gets to

1017

00:48:34,020 --> 00:48:32,530

know him that person and he in the

1018

00:48:37,320 --> 00:48:34,030

middle of the night he came out and I

1019

00:48:39,360 --> 00:48:37,330

could hear him wow wow which is the sign

1020

00:48:40,890 --> 00:48:39,370

there's something in his mouth so I had

1021

00:48:44,310 --> 00:48:40,900

to get up and he was outside Richard's

1022

00:48:46,200 --> 00:48:44,320

door with a dead mouse and I had to get

1023

00:48:47,790 --> 00:48:46,210

the mouse and throw him in the mouse out

1024

00:48:49,320 --> 00:48:47,800

I think he was leaving it for you

1025

00:48:50,820 --> 00:48:49,330

Richard he was trying to show you that

1026

00:48:52,980 --> 00:48:50,830

he's the provider of this house

1027

00:48:55,230 --> 00:48:52,990

maybe what did you leave and he was

1028

00:48:57,480 --> 00:48:55,240

showing you that he's actually you know

1029

00:48:59,730 --> 00:48:57,490

handles the food in the house or

1030

00:49:03,600 --> 00:48:59,740

something or maybe was just showing you

1031

00:49:05,130 --> 00:49:03,610

he's an equal I don't know in the middle

1032

00:49:08,730 --> 00:49:05,140

of the night halfway through my dream I

1033

00:49:11,820 --> 00:49:08,740

hear this this this cat from hell

1034

00:49:17,820 --> 00:49:11,830

noise and then I hate you coming up the

1035

00:49:19,320 --> 00:49:17,830

whole way and I didn't want to throw I

1036

00:49:20,550 --> 00:49:19,330

did not want to put on the lights and

1037

00:49:23,670 --> 00:49:20,560

everything it was a late at night but

1038

00:49:25,950 --> 00:49:23,680

why who knows cats do what they do you

1039

00:49:27,690 --> 00:49:25,960

have your - we do you know what's gonna

1040

00:49:28,890 --> 00:49:27,700

happen is you're gonna go for a psychic

1041

00:49:32,670 --> 00:49:28,900

reading one day they're gonna say I

1042

00:49:35,820 --> 00:49:32,680

sense some cats in your house and what's

1043

00:49:38,220 --> 00:49:35,830

this about a dead mouse we know when we

1044

00:49:39,360 --> 00:49:38,230

get up in the morning to carefully look

1045

00:49:40,950 --> 00:49:39,370

at the floor where you're walking

1046

00:49:44,400 --> 00:49:40,960

before you having that's a very good

1047

00:49:46,050 --> 00:49:44,410

idea from the heartland the the nerve

1048

00:49:48,450 --> 00:49:46,060

center the war room of guerrilla

1049

00:49:50,820 --> 00:49:48,460

skepticism on Wikipedia Susan go back

1050

00:49:55,640 --> 00:49:50,830

thank you very much thank you Richard

1051  
00:50:00,630 --> 00:49:55,650  
and just to be clear that website is

1052  
00:50:03,950 --> 00:50:00,640  
about time of project dot wordpress.com

1053  
00:50:06,170 --> 00:50:03,960  
[Music]

1054  
00:50:11,700 --> 00:50:09,630  
the earth is only six thousand years old

1055  
00:50:14,640 --> 00:50:11,710  
that's what Answers in Genesis and the

1056  
00:50:18,870 --> 00:50:14,650  
Creation Museum say and how can a museum

1057  
00:50:21,900 --> 00:50:18,880  
be wrong isn't dr. oz just wonderful I

1058  
00:50:24,860 --> 00:50:21,910  
love today's episode it didn't talk down

1059  
00:50:27,090 --> 00:50:24,870  
to his adoring audience of women at all

1060  
00:50:29,430 --> 00:50:27,100  
science has proved that the subatomic

1061  
00:50:32,010 --> 00:50:29,440  
quantum realm is as real as it is

1062  
00:50:33,780 --> 00:50:32,020  
counterintuitive and bizarre therefore I

1063  
00:50:36,600 --> 00:50:33,790

can use it to support quantum healing

1064

00:50:38,490 --> 00:50:36,610

and quantum consciousness after all how

1065

00:50:41,100 --> 00:50:38,500

can journals like Aquarius metaphysics

1066

00:50:43,170 --> 00:50:41,110

be wrong evolution is just a theory

1067

00:50:46,260 --> 00:50:43,180

after all if we came from monkeys then

1068

00:50:47,520 --> 00:50:46,270

why are there still monkeys we all have

1069

00:50:50,100 --> 00:50:47,530

friends and family who believe these

1070

00:50:52,080 --> 00:50:50,110

things and much more well if you're a

1071

00:50:53,850 --> 00:50:52,090

rational thinker who is tired of arguing

1072

00:50:55,740 --> 00:50:53,860

on social media and never getting

1073

00:50:57,960 --> 00:50:55,750

anywhere we have a solution for you

1074

00:51:00,420 --> 00:50:57,970

join the guerrilla skepticism on

1075

00:51:02,850 --> 00:51:00,430

wikipedia team and we will teach you how

1076  
00:51:04,740 --> 00:51:02,860  
to add reliable scientific and skeptical

1077  
00:51:06,120 --> 00:51:04,750  
information to the world's number-one

1078  
00:51:08,730 --> 00:51:06,130  
source of information

1079  
00:51:10,800 --> 00:51:08,740  
Wikipedia we write new articles and

1080  
00:51:12,780 --> 00:51:10,810  
improve existing ones we remove

1081  
00:51:15,270 --> 00:51:12,790  
pseudoscience paranormal and altmed

1082  
00:51:17,520 --> 00:51:15,280  
claims substituting the actual facts and

1083  
00:51:19,500 --> 00:51:17,530  
we operate in many languages we've

1084  
00:51:22,020 --> 00:51:19,510  
already reached tens of millions of

1085  
00:51:23,820 --> 00:51:22,030  
people searching for information but as

1086  
00:51:27,270 --> 00:51:23,830  
you can imagine we can never do enough

1087  
00:51:29,190 --> 00:51:27,280  
so please join us all you need is a PC

1088  
00:51:31,710 --> 00:51:29,200

and the desire to help educate the

1089

00:51:34,770 --> 00:51:31,720

planet in fact you'll be educating the

1090

00:51:38,400 --> 00:51:34,780

world while you sleep contact us at T is

1091

00:51:40,980 --> 00:51:38,410

a W team at gmail.com guerrilla

1092

00:51:42,870 --> 00:51:40,990

skepticism the time is now

1093

00:51:53,410 --> 00:51:42,880

music by purple planet calm

1094

00:51:59,330 --> 00:51:55,760

thank you for listening to the skeptic

1095

00:52:01,550 --> 00:51:59,340

zone this week I'm down here by the bay

1096

00:52:04,850 --> 00:52:01,560

side there's oh there's sea lion how

1097

00:52:08,150 --> 00:52:04,860

about that swimming along near the

1098

00:52:11,240 --> 00:52:08,160

submarine images on display the USS Penn

1099

00:52:13,099 --> 00:52:11,250

auntie No

1100

00:52:14,810 --> 00:52:13,109

and I look over to my right I can see

1101  
00:52:17,210 --> 00:52:14,820  
some fairies launching out into the bay

1102  
00:52:19,190 --> 00:52:17,220  
and look past the submarine and there's

1103  
00:52:21,530 --> 00:52:19,200  
Alcatraz in the background

1104  
00:52:22,820 --> 00:52:21,540  
coming up next week's show we're going

1105  
00:52:23,930 --> 00:52:22,830  
to bring you a story about a horse

1106  
00:52:25,730 --> 00:52:23,940  
chiropractor

1107  
00:52:28,190 --> 00:52:25,740  
maybe he sounds like me at the moment a

1108  
00:52:30,800 --> 00:52:28,200  
bit hoarse now I think it really is a

1109  
00:52:34,540 --> 00:52:30,810  
chiropractor who manipulates the spine

1110  
00:52:39,730 --> 00:52:34,550  
of horses or something weird like that

1111  
00:52:42,140 --> 00:52:39,740  
also an update on the area 51 fiasco

1112  
00:52:43,970 --> 00:52:42,150  
you will recall lots of people gonna

1113  
00:52:46,310 --> 00:52:43,980

still marry a 51 but I don't think much

1114

00:52:46,640 --> 00:52:46,320

happened I'll find out what really did

1115

00:52:49,339 --> 00:52:46,650

happen

1116

00:52:51,740 --> 00:52:49,349

we might even contact my buddy Ben

1117

00:52:53,750 --> 00:52:51,750

Radford for a comment thank you to those

1118

00:52:56,359 --> 00:52:53,760

people who continue to support the

1119

00:52:59,540 --> 00:52:56,369

skeptic zone with patreon I'd skipped

1120

00:53:05,180 --> 00:52:59,550

exam TV means a lot means the show keeps

1121

00:53:08,930 --> 00:53:05,190

going now behind me I walk through the

1122

00:53:08,940 --> 00:53:14,039

which is dedicated to

1123

00:53:21,250 --> 00:53:16,329

coin machines going back decades

1124

00:53:23,710 --> 00:53:21,260

probably over century old and new if you

1125

00:53:25,240 --> 00:53:23,720

ever come to San Francisco come down to

1126  
00:53:29,190 --> 00:53:25,250  
Fisherman's Wharf and visit the museum

1127  
00:53:36,310 --> 00:53:29,200  
mechanic lots of fun

1128  
00:53:36,320 --> 00:53:45,430  
lot's of all pinball machines

1129  
00:53:49,759 --> 00:53:48,199  
so from the mayhem of the museum

1130  
00:53:57,799 --> 00:53:49,769  
mechanic this is Richard Saunders

1131  
00:53:59,599 --> 00:53:57,809  
signing off from San Francisco you've

1132  
00:54:02,199 --> 00:53:59,609  
been listening to the skeptic zone

1133  
00:54:08,900 --> 00:54:02,209  
podcast please visit our website at

1134  
00:54:12,400 --> 00:54:08,910  
wwlp.com tax and to access the bat

1135  
00:54:15,049 --> 00:54:12,410  
catalog of episodes going back to 2008

1136  
00:54:18,349 --> 00:54:15,059  
you can follow the skeptic zone podcast

1137  
00:54:20,630 --> 00:54:18,359  
on twitter at skeptic zone visit our

1138  
00:54:21,519 --> 00:54:20,640

facebook page or leave a review on

1139

00:54:24,199 --> 00:54:21,529

itunes

1140

00:54:27,589 --> 00:54:24,209

you can also support the skeptic zone

1141

00:54:30,309 --> 00:54:27,599

via patreon or PayPal the skeptic zone

1142

00:54:32,690 --> 00:54:30,319

podcast is an independent production

1143

00:54:34,819 --> 00:54:32,700

reviews and opinions expressed on the

1144

00:54:37,160 --> 00:54:34,829

skeptic zone are not necessarily those

1145

00:54:38,960 --> 00:54:37,170

of Australian skeptics or any other

1146

00:54:49,790 --> 00:54:38,970

skeptical organisation

1147

00:55:02,510 --> 00:54:56,210

HAMB HAMB hamilton would do you did you

1148

00:55:06,890 --> 00:55:02,520

do that why did you do that